

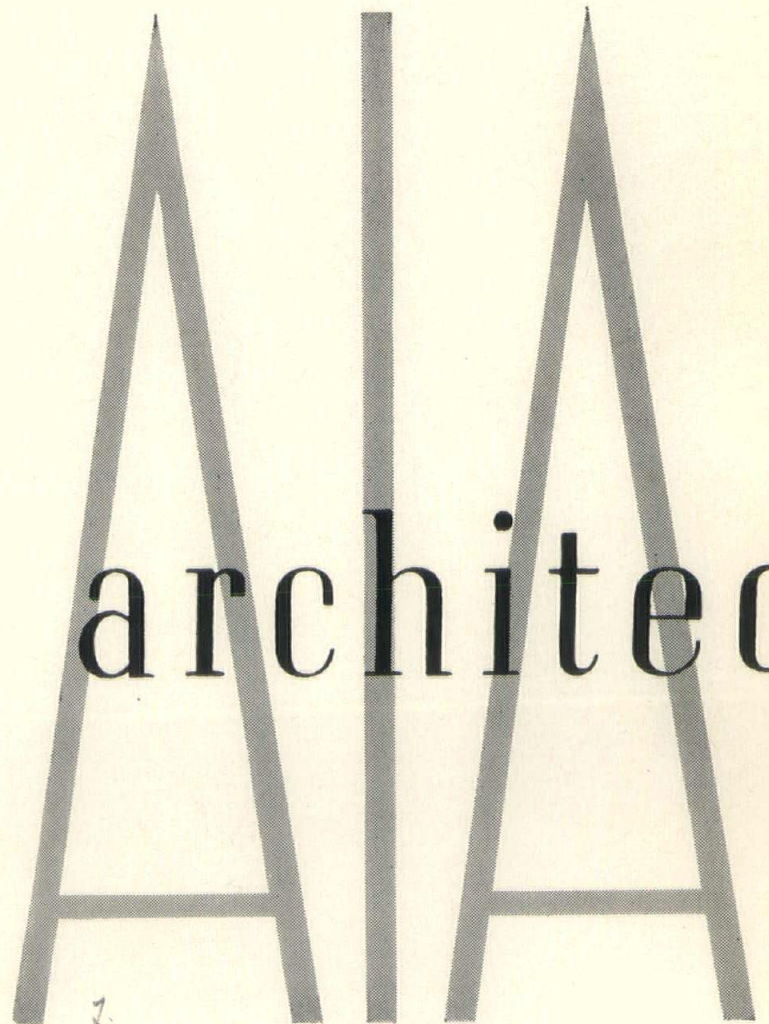


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MAY 27 1958

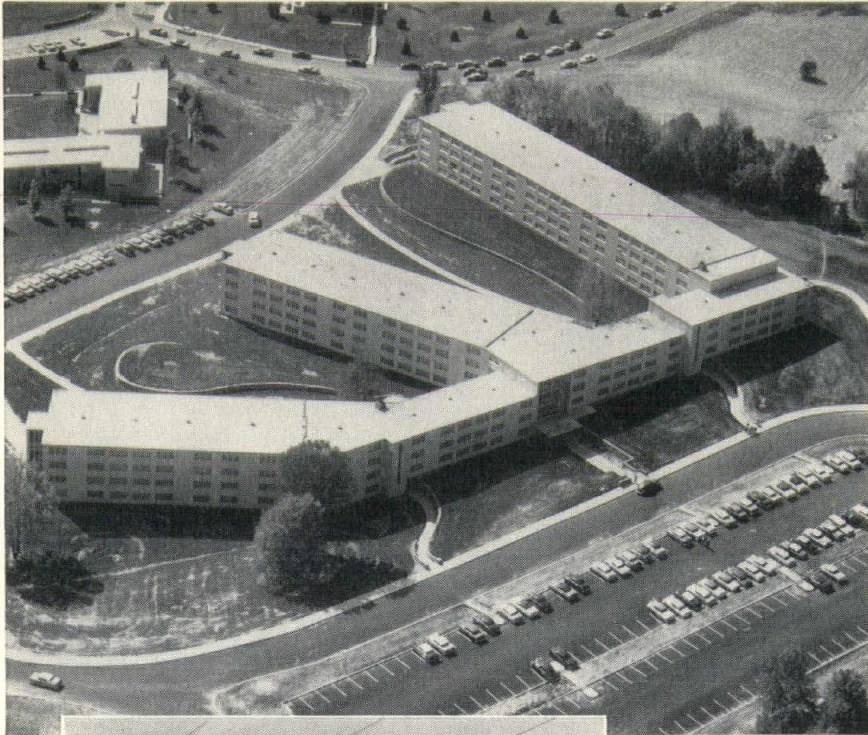
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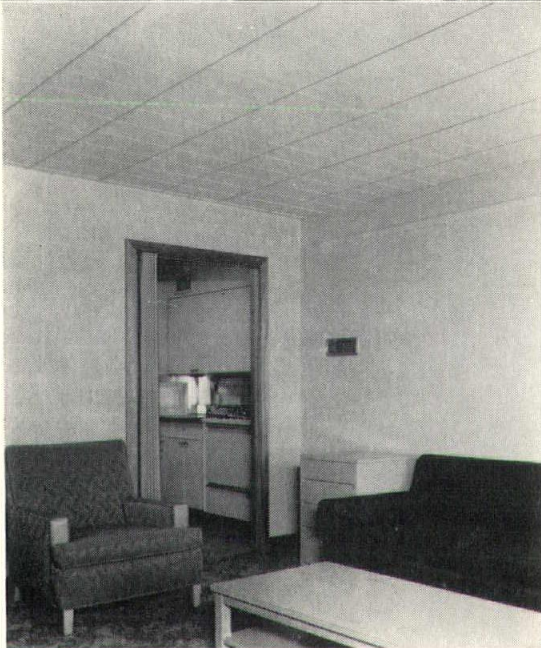
with floors and roof of

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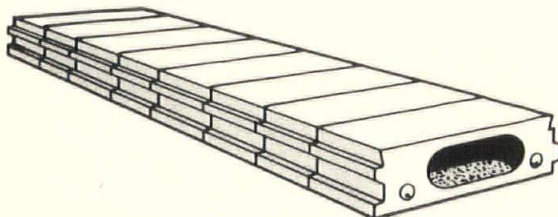
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The *Indiana Architect* is the official publication of the Indiana Society of Architects, a chapter of the American Institute of Architects. It is published monthly in Indianapolis. Editorial and advertising offices are located at 5930 Gladden Drive, Indianapolis 20, Ind. Editorial and advertising policy for the *Indiana Architect* is governed by the Publications Committee, Indiana Society of Architects, whose members are Trace Christenson, Jr., 230 W. Washington St., South Bend; Ray Thompson, 2211 E. 52nd St., Indianapolis; Robert Schultz, 1015 Hudson Ave., South Bend; Henry Meier, 5636 Marilyn Rd., Indianapolis; Ray Ogle, 10824 Ruckle, Indianapolis; Herb Thompson, 3105 Ashland Ave., Indianapolis, and Herman Rall, 762 DeQuincy St., Indianapolis. The *Indiana Architect* is edited by Joe Ledlie, 5930 Gladden Drive, Indianapolis 20, Ind.

The opinions expressed in the *Indiana Architect* written by various members of the Indiana Society of Architects or persons who are not members of the I.S.A. do not necessarily reflect the opinion of the Society unless specifically stated.—The Publication Committee.

Annual State Meeting Set, I.S.A. Meets June 7 at Marott

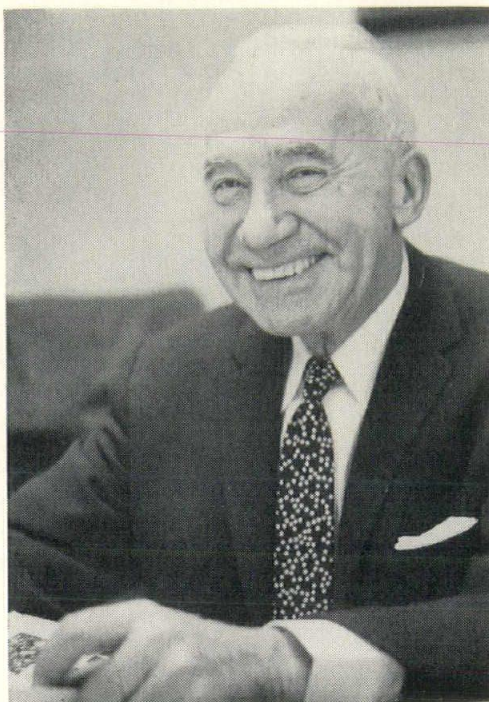
Saturday, June 7, is the date set for the Annual State Meeting of the Indiana Society of Architects.

This year's meeting will be held at the Marott Hotel, Indianapolis, and will be a one-day affair with activities scheduled to start at 2:00 p. m. Registration will begin at 1:00 p. m. As has been the custom, the Women's Architectural League will conduct their business session and election of officers along with the I.S.A. business meeting.

Featured speaker for this year's banquet will be C. Walter (Mickey) McCarthy, editor of the Indianapolis News. Mr. McCarthy is a native of Washington, Ind., where he went to high school before entering Indiana University. He was graduated from Indiana University in 1914, and now is a trustee of that school. His colorful newspaper career began with the Associated Press right after college. He then went to the Indianapolis News, where he has been editor since 1949.

The complete schedule of events follows:

- 1:00 P. M.—Registration
- 2:00 P. M.—General Business Meeting
Executive Board Meeting
Women's Architectural League Meeting
Election of Officers
- 5:30 P. M.—Cocktail Party (Dutch Treat)
- 6:30 P. M.—Banquet (Marble Room)
Presentation of Awards
Introduction of New Officers



MICKEY McCARTY

Speaker: C. Walter (Mickey) McCarthy, Editor, Indianapolis News; Subject: "Much Ado About Nothing"

Film: "The New Age of Architecture," presented by Architectural Forum Magazine

Candidates Named for I.S.A. 1958-59 Slate

The Indiana Society of Architects will elect a new slate of officers, who will be introduced and assume their duties at the annual state meeting Saturday, June 7, in the Marott Hotel, Indianapolis.

The nominees, as announced by the I.S.A. Nominating Committee, are as follows:

PRESIDENT

Charles J. Betts Indianapolis
Frank Montana South Bend

1st VICE-PRESIDENT

Thomas Charles Dorste Indianapolis
Gilbert T. Richey Indianapolis

2nd VICE-PRESIDENT

Harry E. Cooler, Jr. Indianapolis
Ralph Yeager, Jr. Terre Haute

SECRETARY

Donald H. Hinshaw Indianapolis
Raymond S. Thompson Indianapolis

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George Russell West Indianapolis

DIRECTOR, 1958-1960

Charles A. Saletta Evansville
E. Jack Wesley Indianapolis

DIRECTOR, 1958-1960

James J. McCarron Fort Wayne
John Davis Martindale Fort Wayne

and honors will be presented at the Awards Luncheon on Wednesday, July 9. Other regular convention events include the induction of new Fellows, the Annual Exhibition of Outstanding American Architecture, the President's reception, election of officers, business sessions, and the display of new building products and equipment.

The host chapter committee, under the chairmanship of Cleveland architect Joseph Ceruti, is arranging a varied program of tours, exhibitions of architecture and the allied arts, entertainment features and special events for architects' wives. Entertainment and education will be pleasantly combined on tours through General Electric's Nela Park and the Republic Steel Corporation, Monday, July 7.

During the days prior to the opening of the convention, there will be meetings of the A.I.A. Board of Directors, the Association of Collegiate Schools of Architecture, the National Council of Architectural Registration Boards, the Producers' Council, the National Architectural Accrediting Board, and students of architecture.

Economic Theme to Highlight A.I.A. Confab, Cleveland Scene of July 7-11 Event

Secretary of the Treasury Robert B. Anderson will be keynoter for The American Institute of Architects' annual convention, it has been announced by A.I.A. President Leon Chatelain, Jr. The convention will meet in Cleveland, O., July 7-11, 1958, with headquarters at the Hotel Cleveland.

Dr. Margaret Mead, Associate Curator of Ethnology at the American Museum of Natural History, will address the convention on Wednesday morning, July 9. Her topic will be "The Anthropologist Looks at Architecture." Dr. Mead is widely known as a writer on anthropological subjects.

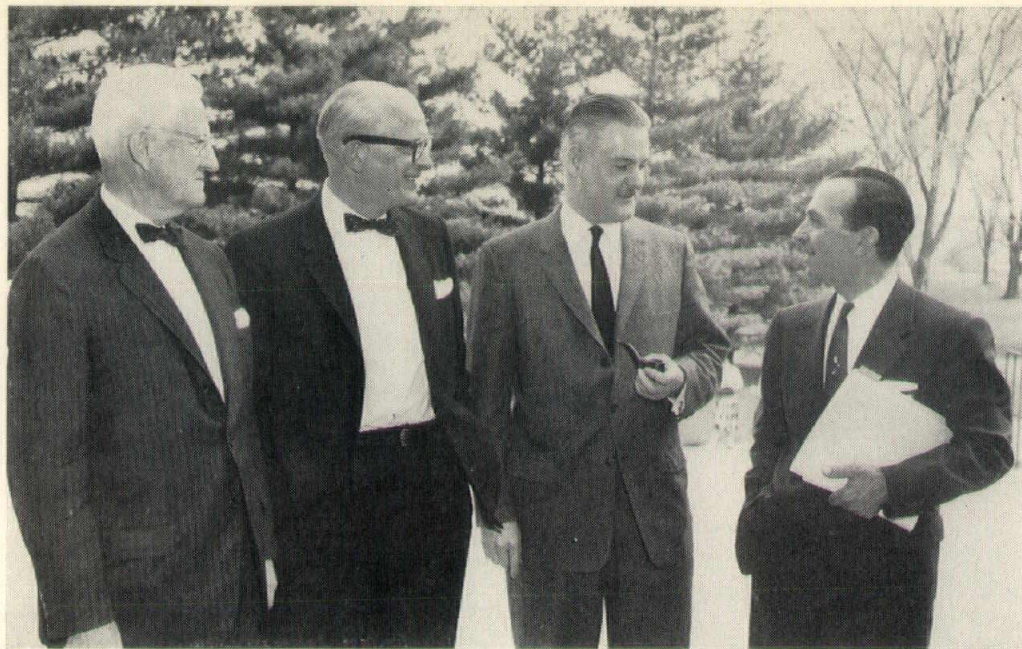
Because the architect's services are expanding and the demands upon him are greater and more diverse than ever before, the convention program this year is geared towards providing a deeper understanding of the economic forces of the nation that are influencing environmental patterns.

Secretary Anderson's opening address on Tuesday morning, July 8, will be followed

by the architectural keynote speech of Philadelphia architect Vincent G. Kling. At luncheon that day Harlan Hatcher, president of the University of Michigan will speak on "The Western Reserve—Part of Our Heritage."

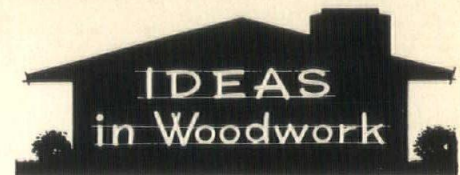
Specialists serving on panels will discuss such practical matters as how to make better cost estimates, where to find construction money, developing today's building program, working with the homebuilder. Other seminars are scheduled on urban planning, office organization, chapter affairs, and on "Professional Status—Your Most Valuable Asset."

The Gold Medal, highest honor given by the Institute, will be awarded at the annual banquet on Thursday, July 10. Additional medals



Last month's Great Lakes Regional Conference, A.I.A., which was hosted by the Indiana Society of Architects on the campus of the University of Notre Dame, found some of the nation's most prominent professional men on hand to participate in the lively seminars and business sessions. Shown, from left to right in the top photo, are Harland Bartholomew, city planner and engineer, of Washington, D. C. and St. Louis; George W. Barton, traffic engineer of Evanston and Chicago, Ill.; James A. McCarthy, professor of civil engineering, University of Notre Dame; Charles J. Marr, F.A.I.A., president of Architects Society of Ohio, A.I.A.

The bottom photo shows, left to right, Charles J. Marr, F.A.I.A., Frederick E. Wigen, A.I.A., Saginaw, Mich., president of Michigan Society of Architects; Bergman S. Letzler, A.I.A., of Louisville, director of Great Lakes District, American Institute of Architects; Phillip Will Jr., A.I.A., second vice-president, American Institute of Architects; Gerald G. Diehl, A.I.A., of Detroit, president of the Detroit Chapter, American Institute of Architects; James H. Holroyd, A.I.A., of Columbus, O., treasurer of the Architects Society of Ohio A.I.A.



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The President Speaks . . .

By FRANK MONTANA, President
Indiana Society of Architects, A.I.A.

I wish to take this opportunity to thank all of our members who worked to make the Great Lakes District Regional Conference of the A.I.A. at Notre Dame a success. I wish to mention that without Paul Jernegan and his untiring efforts, the conference would not have moved as smoothly.

The Society is proud of the wonderful turnout of the Indiana members as well as others of the member states of the Great Lakes Region. It was one of the best attended conferences of its kind ever held in Indiana. I would like also to thank the students in the Department of Architecture University of Notre Dame, for the wonderful display of drawings, sculpture and other student works, prepared under the leadership of their faculty advisor, Mr. Joseph J. McGraw. Our visitors were very complimentary of the way the exhibit was organized and handled.

Congratulations also are in order to the newly re-organized Fort Wayne section of architects. Their president is Ivan R. Dahlgren, Vice-President, James J. McCarron, Secretary-Treasurer, Robert E. Kain.

So, "hats off" to Fort Wayne! Active groups mean a strong Indiana Chapter of the A.I.A.



MR. MONTANA

'Indiana Architect' Launches Second Year

The month of May is significant, perhaps, to many different people for many different reasons.

This month, however, is especially significant to the Indiana Architect because it marks a most auspicious milestone.

With this issue, the Indiana Architect proudly sports a line of type on its title page which says "Volume 2, No. 1." It means it can look back upon 12 months, however hectic, which represents its first full year of publication.

Too, four more pages were added with this issue—the second time within the past six months that expansion was necessary.

The Indiana Architect is proud that it is a magazine for architects, about architects, and published by architects.

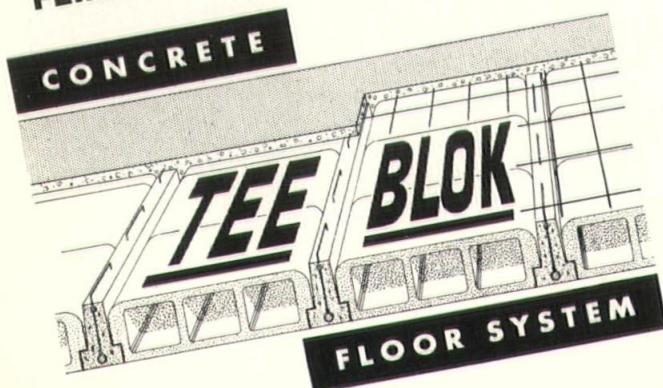
Certainly no small measure of credit belongs to the constantly loyal and forever increasing list of advertisers who have chosen to use our pages to tell their story. Without them there would be no Indiana Architect.

It's been a busy 12 months, but we're doggedly happy about the whole thing. And equally grateful.

Publications Committee
Indiana Society of Architects

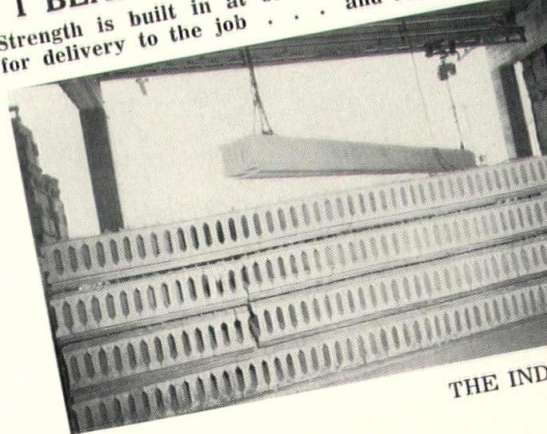
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I.S.A. Backs U. S. Senate Billboard, Capitol Bills

The Indiana Society of Architects, through its officers and Executive Board, went firmly on record last month regarding the I.S.A.'s stand on two Congressional bills—the Anti-Billboard Measure (S-3218) and the bill designed to block destruction of the east front of the United States Capitol Building (S-2883).

I.S.A. President Frank Montana, in letters to 14 U. S. senators and representatives from the state of Indiana, urged support of both bills.

Most of the Congressmen written to replied almost immediately and were in sympathy with the I.S.A.'s thinking on both measures. Exerpts from some of the replies are as follows:

Sen. Homer E. Capehart—"Thank you very much for your recent communication with regard to (the bill) to provide for the control of certain advertising on federally owned or controlled lands adjacent to the National System of Interstate and Defense Highways, and to encourage such control on other lands adjacent to such National System. This bill is pending before the Senate Public Works Committee, and has been referred to the Subcommittee on Public Roads . . . You may be sure that I will keep your views in mind when this matter reaches the Senate floor for vote."

Sen. William E. Jenner—"I want to thank you for your recent letter calling my attention to several important measures pending before the Senate . . . I appreciate having the benefit of your thinking on these important measures and you may be assured that they will have my most careful attention when they are before the Senate for debate and vote."

Rep. Charles B. Brownson—"Just two days before you wrote your . . . letter to me, I introduced H.R. 11113, a bill similar to those you mention . . . I feel that we will be able to prevent this desecration to the Capitol. A Senate Subcommittee has voted out a bill cutting off the appropriation for the work, and we in the House are awaiting the action of the full Senate Public Works Committee before pressing for action on our House bills . . . An aroused public's letters to Congressional committees very often proves of tremendous help in matters such as this . . . You may depend upon my giving any anti-billboard legislation which may come before us in the House my very careful attention."

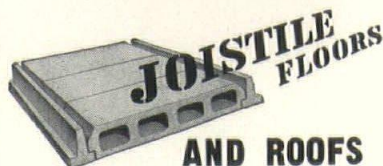
Rep. Ray J. Madden—" . . . I was glad to get your expression on this important legislation and assure you I will give the same every consideration when the matter is presented to the Rules Committee and on the floor of the House."

(Continued on Page 14)

I.S.A. Calendar of Coming Events

DATE	TYPE OF MEETING	LOCATION
June 7	Annual Meeting	Indianapolis
July 7-11	A.I.A. Convention	Cleveland, Ohio

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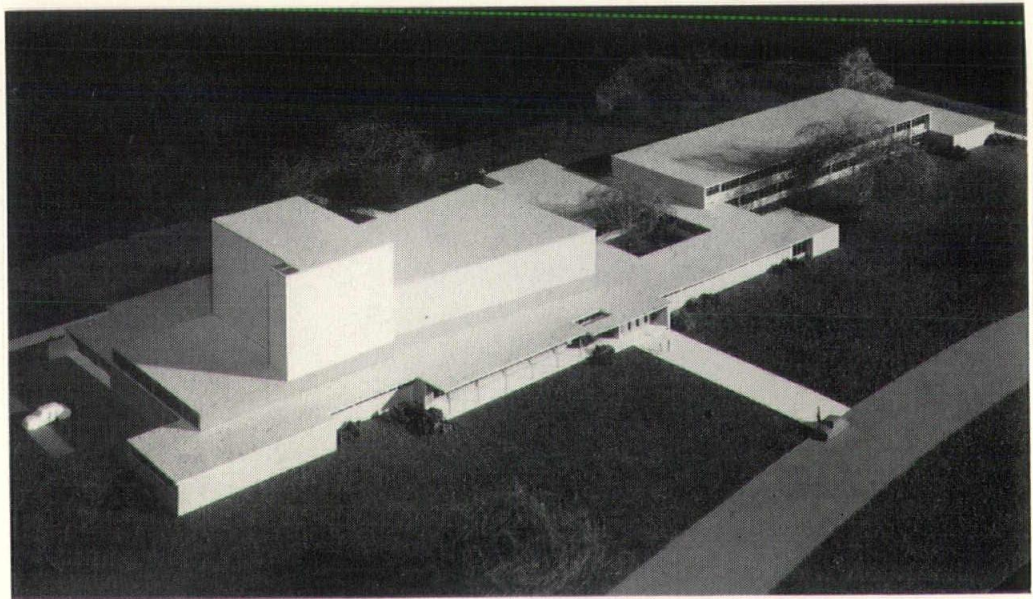
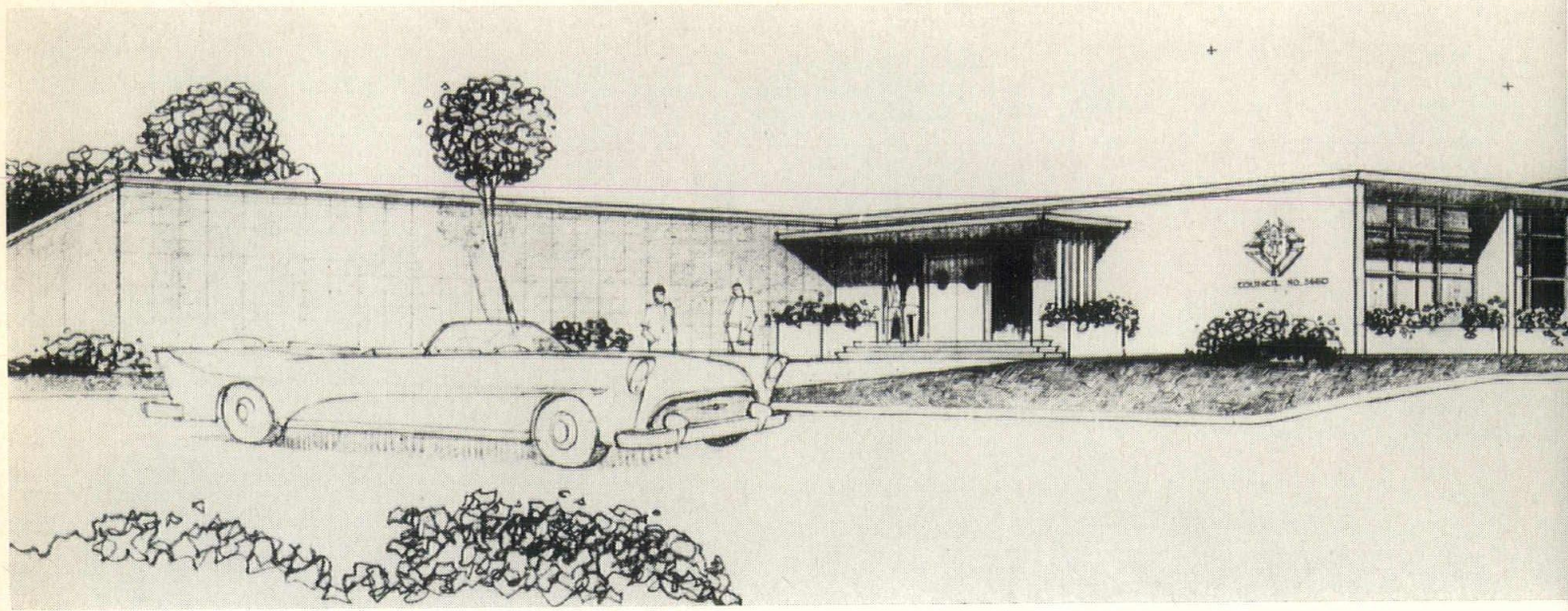
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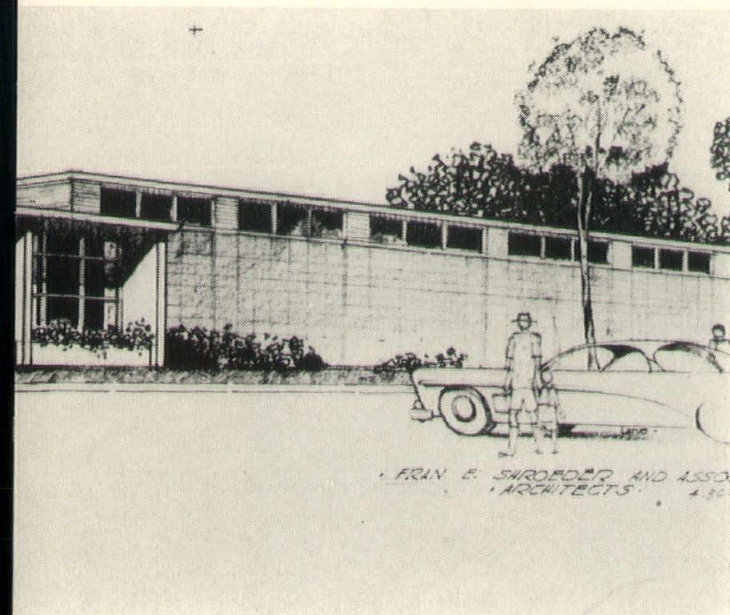
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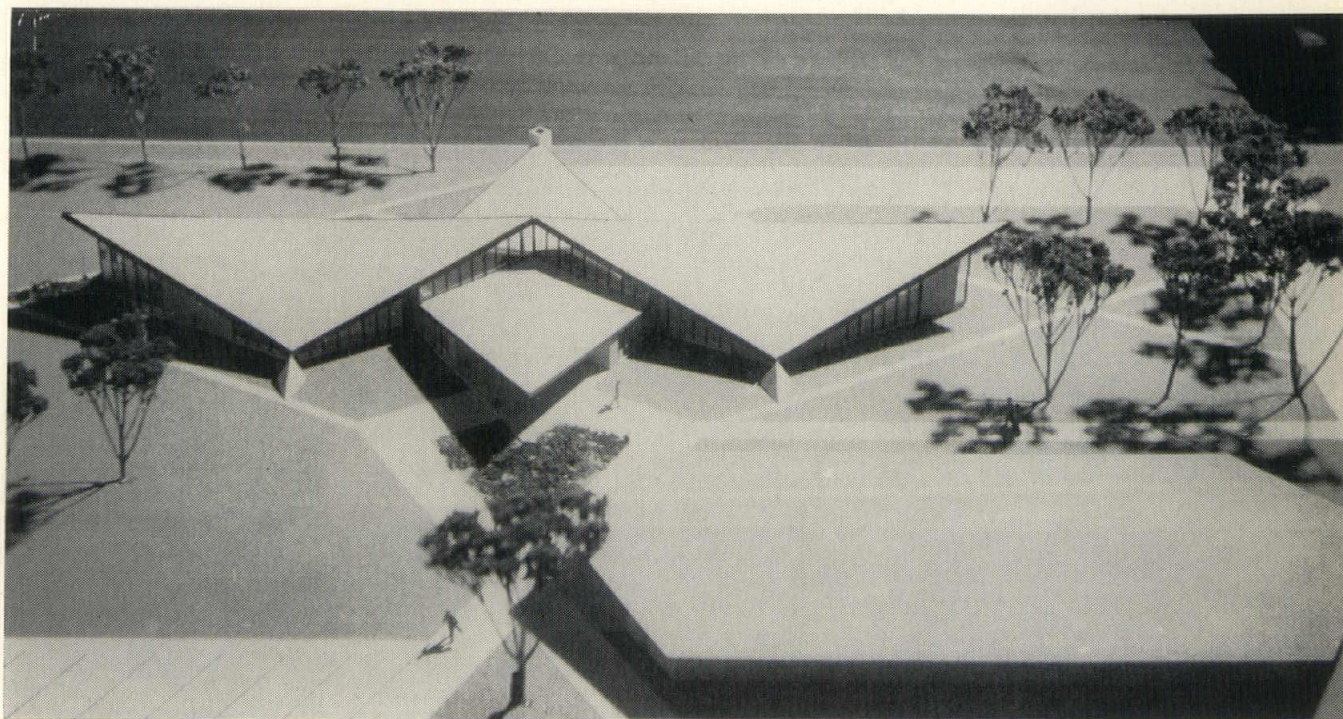


Indiana University's \$2,000,000 Adult Education Center currently is under construction in Gary. The new center, designed by Beine, Hall & Curran, Inc., Gary architects and engineers, will house 22 classrooms and laboratories, a wing for administrative offices, a large library, a spacious and completely equipped auditorium, a book-store, private offices, and lounges for students and faculty members. Shown above, the auditorium unit in the foreground, with the student lounge facing the street. The two-story wing, at right, houses the academic unit.

ARE DOING . . .



Recently completed by Fran E. Schroeder and Associates, Indianapolis, is this Knights of Columbus Lodge Building on State Road 31 at Thompson Road, south of Indianapolis. It is the new home of the Msgr. Downey Council No. 3660. The structure features an exterior of painted Heydite block and St. Meinrad sandstone and covers 12,800 square feet. Cost of the new lodge was \$134,000.



A striking example of contemporary church architecture is found in the new two-phase building program now being undertaken by the Unitarian Society of Fort Wayne. Architect for the project is Humbrecht Associates, Fort Wayne. First part of the program consists of the assembly room, seating 200 and occupying the floor area under the hyperbolic paraboloid roof sections, a religious education area under the opposite paraboloid, and the main entry and office space under the front folded plate roof section. The initial building will cost approximately \$80,000 and cover 7000 square feet.



One of the most gala social functions of the year occurred earlier this month when the Unit Masonry Association, Indianapolis, played host to the Indiana Society of Architects with a lavish cocktail-smorgasbord dinner in the Marott Hotel, Indianapolis. Over 200 attended the affair which featured a talk by John J. Murphy, Secretary of the International Bricklayers Union, Washington, D. C. Shown above, at speakers table, are, left to right, Frank Montana, I.S.A. president; Murphy; Carl F. Spickelmier, of Spickelmier Industries, Inc.; Charles Weaver, Executive Director, Unit Masonry Association; and Robert R. Campbell, U.M.A. president.

State Board Sets Junior Exam Dates May 27 Deadline for Applicants

The Indiana State Board of Registration for Architects has announced a schedule of dates for Junior Architectural examination, and warned all applicants that no applications will be received after May 27.

The examinations will be held June 10, 11, 12, and 13 at the John Herron Art School, 16th and Pennsylvania Sts., Indianapolis. Applications will be received at State Board's offices, Room 412, State Library Building, Indianapolis.

A detailed schedule of the examinations is as follows:

DATE	TIME (CDT)	EXAMINATION	MONITOR
Tues., June 10	8:00 A. M. - 11:00 A. M.	Examination C	Wilson L. Ford
	11:00 A. M. - 12:00 Noon	Lunch	
	12:00 Noon - 5:00 P. M.	Examination D	
Wed., June 11	8:00 A. M. - 3:00 P. M.	Examination E (EnLoge)	Warren D. Miller
Thurs., June 12	8:00 A. M. - 11:00 A. M.	Examination F	Wilson L. Ford
	11:00 A. M. - 12:00 Noon	Lunch	
	12:00 Noon - 5:00 P. M.	Examination G	
Fri., June 13	8:00 A. M. - 11:00 A. M.	Examination H	Roy A. Worden
	11:00 A. M. - 12:00 Noon	Lunch	
	12:00 Noon - 5:00 P. M.	Examination I	
			A. M. Strauss

Building Costs Up, Higher Than in '41

Building construction costs, notwithstanding market weaknesses general across the United States, have managed to squeak up another two per cent for the 12 months ending in March. All of this came about in the first half of the period. Since then there has been enough price deterioration in retail quotations to builders for items of building materials, equipment, appliances and accessories, to slightly more than offset the impact of higher wage rates to building trades craftsmen.

Commenting upon the significance of information received from several hundred contributors in 48 states, Myron L. Matthews, Manager-Editor, the Dow Real Estate Valuation Calculator, says "As for the future it appears reasonable to expect that the cost to build almost anything from a cottage to a skyscraper will push on upward at a rate of about one per cent every four months, or three per cent for 12 months. But things are in such uncertain balance that a moderate drift in psychology could change the outlook one way or the other, almost overnight."

Of the two major components of construction cost—materials and labor—labor has again exhibited the greater strength. This has been enough to overcome the rather severe drops in retail lumber price quotations and the minor weaknesses in other prices for items in the market sampling basket. Both the eastern and western halves of the U. S. show uniform reflections of materials and wage rate changes, almost as though some great cohesive force were at work. For example: For six months ending in March all the states east of the Mississippi River averaged out at "no change." Simultaneously a processing of data from the western states produces an identical "no change." For the six months ahead of these, both parts of the U. S. showed a two per cent increase.

The price tag on construction is 149 per cent higher than in prewar 1941. Generally speaking, the average level of cost was then approximately equal to the average for the years 1926-1929. In between there had been a depression and a recovery. At any rate the cost to build is today roughly two and one-half times what it was in '41. Saying it another way it takes \$2.50 today to buy what \$1.00 bought 17 years ago. The \$8,000 house of 1941, exclusive of land and charges other than labor and materials for construction, would come today with a tag for \$20,000. Thus the current purchasing power of the 1941 building dollar is 40 cents.

These observations do not hold uniformly true in all of the 150 cities tested—its just the way the averages happen to work out. In some places material and wages are substantially lower than New Yorkers pay. Extremes are: Greenville, S. C., 40 per

(Continued on Page 14)

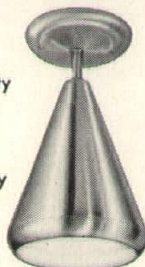
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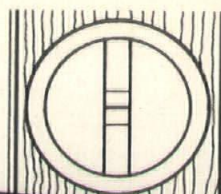
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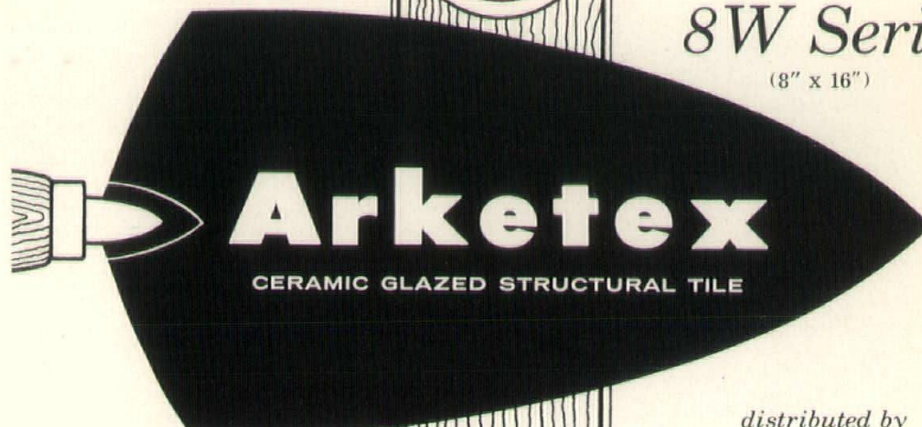
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Dennis Kelly Wins Student Competition

Winners of the Annual Student Competition, sponsored by the Indiana Society of Architects for students in the Department of Architecture, University of Notre Dame, have been announced by Frank Montana, I.S.A. president and head of the University's Department of Architecture.

A total of \$100 in prize money has been awarded to the first three winners, who included Dennis Kelly, first (\$50); Thomas P. Quinn, second (\$30); and Charles Petrungaro, third (\$20).

The assigned problem was a mountain lookout station. Details to be embodied in the plan are as follows:

On a mountain divide where two trails cross one another and a road comes to an end, it is proposed to erect a small lookout station for the use of summer visitors to a national park. The divide runs northeast-southwest and is about 8,000 feet high at this point. One of the trails follows closely the crest of the divide and the other crosses it. A public lodge and a camp are situated on the southeast slope of the divide, a mile and a half away by trail and five miles by road. From the point selected for the lookout the visitor from the Lodge or Camp will get his first distant view of the north. This view includes a chain of five small lakes and another mountain range.

The primary purpose of the Station is to exploit the view, but it must also provide means for rest and refreshment. In addition to the lookout the plan must therefore contain (1) restrooms—one for men and one for women, and (2) a sales room for refreshments, souvenirs, photographic film, etc.

Quarters for a caretaker are already provided in another building off the present site.

The ground on which the Station will be placed is the northern side of a small clearing. The ground is level at this point but begins to drop away at the northern edge of the clearing. The floor of the Lookout will have to be lifted up about twelve feet from the ground to gain the full view and to provide a sense of separateness from the foreground and identification with the distant panorama.

The lookout element should be the most striking feature of the building. Sales and restrooms may either be fitted in under the lookout or they may appear as an attached but independent element in the composition. The sales space may even be on the same level as the lookout if that can be made to seem desirable. The lookout level must be reached by stairway or ramp. The designer may either save the view until the top is reached or he may make small stations along the way up and so get advancing views. He may provide one large gallery or he may break the viewing space up into alcoves with separate outlooks. Whatever the scheme, it should be clearly apparent in the developed design. The view to be enjoyed is not an incidental feature of the building but is the real reason for its being.

Numerous requests for previous issues of THE INDIANA ARCHITECT necessitate a policy of charging \$1.00 for eight copies to cover costs of mailing and handling. Address all such requests, with money enclosed, to Indiana Architect, 5930 Gladden Dr., Indianapolis 20, Ind.—Publications Committee.

I.S.A. Backs Senate Bills

(Continued from Page 8)

Rep. William G. Bray—"Your letter . . . with reference to S-2883, which was introduced to block destruction of the east front of the United States Capitol Building, has been received . . . I agree with you wholeheartedly regarding this measure. It is my firm belief that the Capitol should not be changed, especially in view of the additional expense involved. You may be assured that I will support the above measure when it comes to the floor of the House for a vote."

Rep. John V. Beamer—" . . . I agree with the purposes of both of these measures, and appreciate having the similar thinking of your organization."

Rep. Ralph Harvey—" . . . This is not the first time such a proposal has been made, and over the years it has been a controversial issue, even as it is today. As you know, there has been dissent among members of the committee studying the proposed change. Personally I am inclined toward the sentiment of preserving the historic front of the Nation's Capitol. The expression of your views on the matter is appreciated."

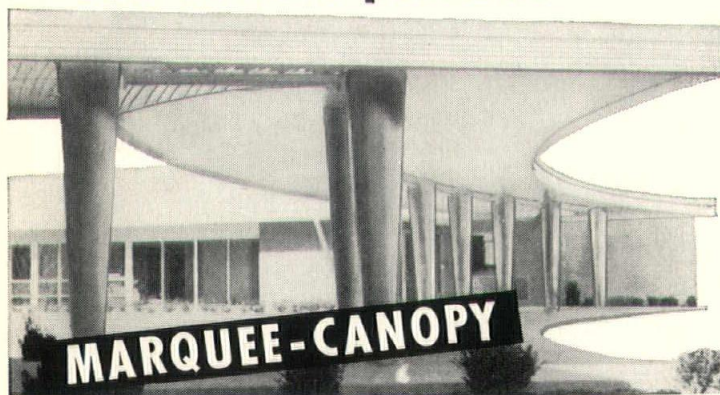
Building Costs Up

(Continued from Page 12)

cent less; Montgomery, Ala., 39 per cent less; Raleigh, N. C., 36 per cent less. Generally, costs average 12 per cent under New York, compared to 10 per cent six months ago, but this can be a dangerous figure to use since it is the product of flattening out a lot of places whose costs run from equal to New York to considerably less.

The 17-year post-1941 range of cumulative cost increases is from 122 per cent (Newark, N. J., Boston, Mass., and Utica, N. Y.) to 203 per cent at San Francisco.

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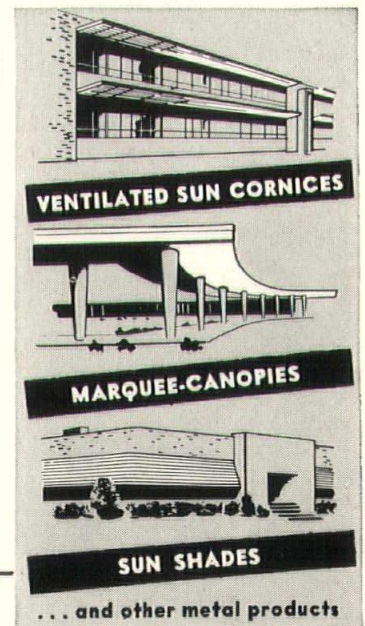
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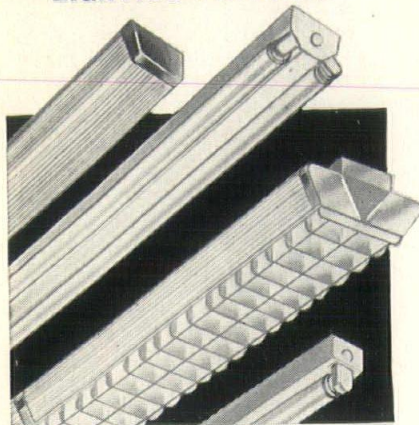
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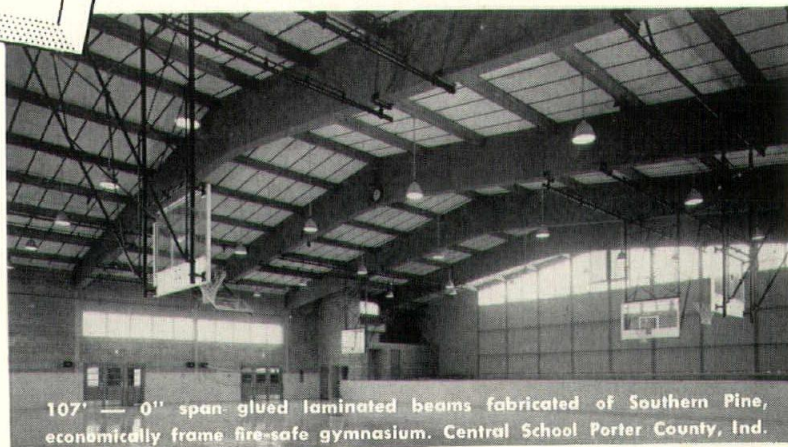
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New Pipe Introduced by Jones & Laughlin Steel

A new type of pipe combining the strength of steel with the chemical resistance of plastic is now being produced by Jones & Laughlin Steel Corporation.

This product, to be marketed under the name of "Jal-Jacket," consists of a rigid polyvinyl chloride (P.V.C) tube which is jacketed with an electric resistance welded steel pipe.

While Jal-Jacket is expected to find wide application where corrosion is a problem, its design features make it particularly suitable to serve the oil-producing industry. In the oil fields, it can be used to carry highly corrosive salt water used for water injection in secondary recovery systems. It can also be used where sour crudes cause short service life for unprotected pipe. Actual field experience has indicated that the smooth inside surface of Jal-Jacket materially reduces the problems of paraffin build-up and scale desorption.

Literature describing the pipe is available by writing: Public Relations & Advertising Department, Jones & Laughlin Steel Corporation, 3 Gateway Center, Pittsburgh 30, Pa.

Indiana, which ranks sixth in the nation in low-cost coal, has enough for 2,000 years at the present rate of 20 to 30 million tons per year.

New 'Super 7' Window Offered by Adams-Rogers

The new Bilt-Well removable window installed in the recent Indianapolis Home Show centerpiece house is now offered by Indiana lumber dealers.

Known as the Super 7, the window is removable in seconds from the inside for easy washing of the outside. It features stainless steel weatherstripping, and easy sliding even in extremely damp weather.

The distributor is Adams-Rogers, Inc., Indianapolis.

NEW DRUM LIGHTING OFFERED BY PRESCOLITE

Prescolite Manufacturing Company, Berkeley, Calif., is offering a new conception in Drum Lighting. It is proclaimed the only drum unit with pan integral mechanical parts constructed from weather resisting non-corrosive "Dielux" die cast aluminum.

The "Trigger Lok" camlocking principle and simplified hinging is said to allow fast, easy maintenance. The glass is hand-blown, satin-finished "Thermopal."

Indiana is growing 59 per cent faster than the United States. Today's Indiana population is over 4,300,000 (60 per cent urban, 40 per cent rural.)

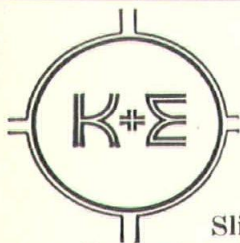
Metal Lath Publishes New Ceiling Bulletins

Technical Bulletin No's. 12-1 and 12-2 relating to "Suspended Metal Lath and Plaster Ceilings" are now available for free distribution from the Metal Lath Manufacturers Association, Engineers Building, Cleveland 14, O.

A feature of these two bulletins is a large illustration covering the size and spacing of all metal components for a metal lath suspended ceiling. This illustration covers: the minimum size of hangers; the maximum spacing of wire hangers along each main runner; the size and weight of cold-rolled main runner channels; the maximum spacing of runners and maximum spans of furring; the maximum spacing of cross furring; types of cross furring; and the types and weights of metal lath.

Other topics covered by T.B.'s 12-1 and 12-2 include: maximum limitations of main runners for spans up to seven feet, and cross furring; properties of cold-rolled channels; a table on hangers which denotes the minimum requirements for maximum areas; and recommendations for compression members to resist the upward movement of ceilings for areas that are subject to high-velocity winds.

These two supplements also feature the ventilation of concealed ceilings; channel ties and splices; and channel clearances.



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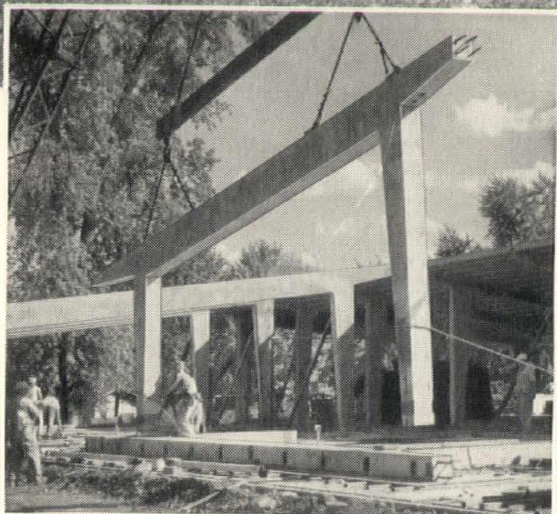
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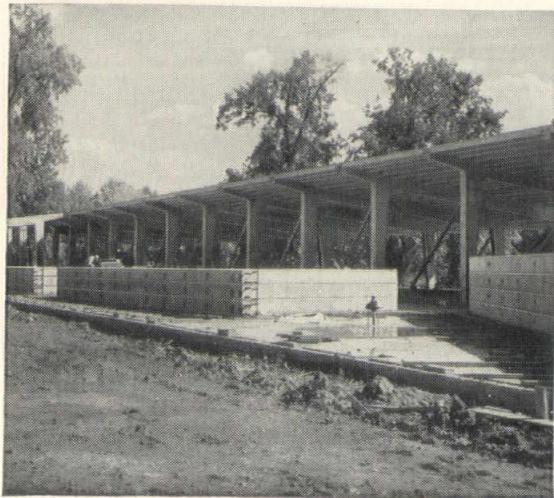
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Large photo shows one wing of the Linton-Stockton School. Small photo above shows a close-up view of one of the precast concrete bents while photo below shows method of stockpiling concrete bents before erection. Designed by Thomas C. Dorste and Spiros G. Pantazi of Indianapolis. Structural engineer was Floyd E. Burroughs, also of Indianapolis.



Precast concrete members make low-cost school possible

The new Linton-Stockton Elementary School in Linton, Ind. has been widely acclaimed in educational circles. It is an example of the speed and economy with which urgently needed classrooms can be provided quickly and economically.

Saving in time and money resulted from the use of precast concrete construction. The frame is formed by precast concrete bents supporting precast channel slabs. Integral parts of the bents are arms for cantilevered sections. Both bents and roof slabs were precast on the site. Careful planning, standardization of members and utmost re-use of forms held down costs and construction time.

As a result the 80,000-sq. ft. school was built for \$870,000. Its 36 classrooms, averaging 1200 sq. ft. in size, will accommodate 1,200 pupils. The restrooms and halls are floored with terrazzo, which was also used for wainscoting in the building.

Modern precast concrete schools such as this not only have low initial cost but also low maintenance cost, long life and low annual cost. And they're fire-safe, too! So make your next school precast concrete.

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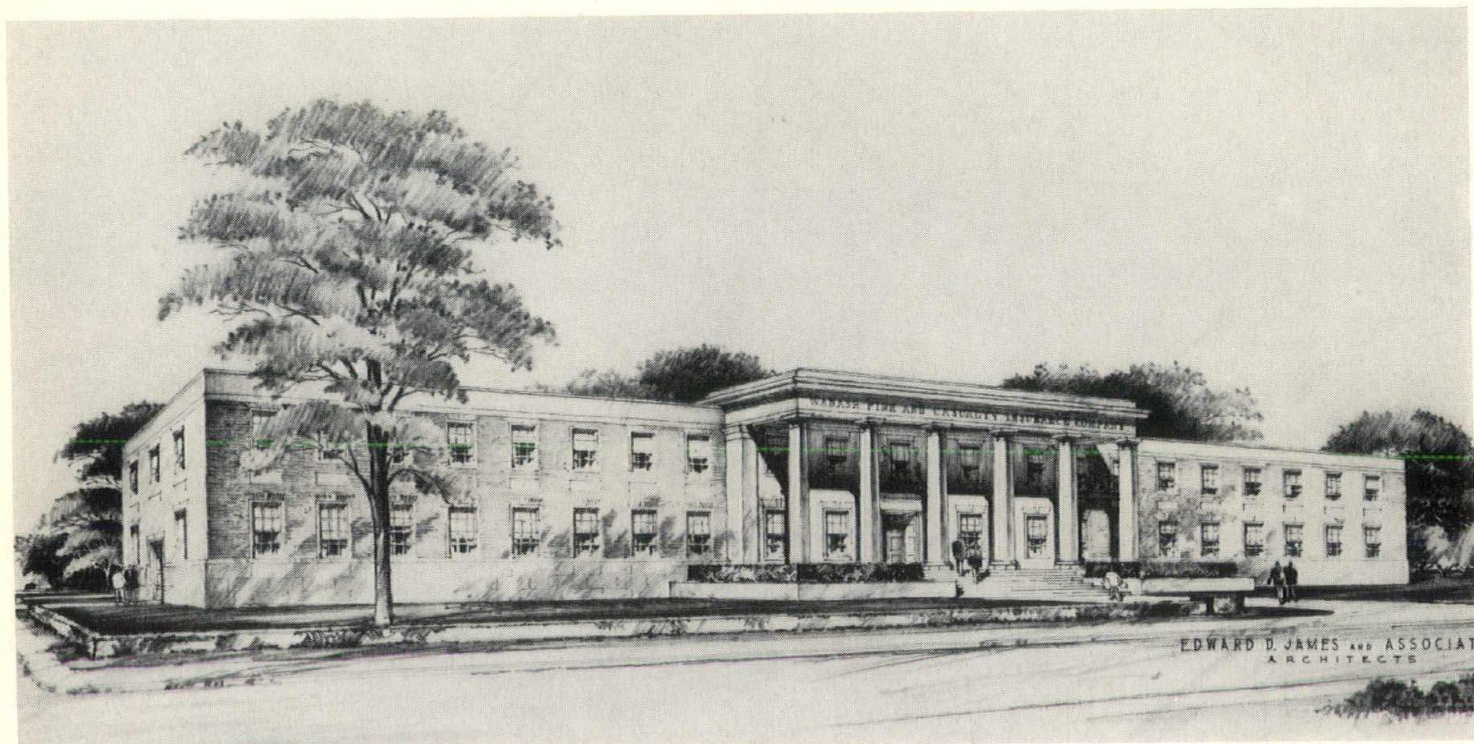
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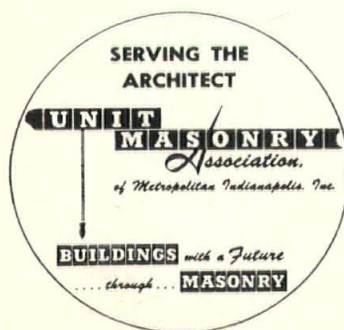


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