

# TEXAS ARCHITECT

OFFICIAL PUBLICATION OF THE TEXAS SOCIETY OF ARCHITECTS

THE DEMAND FOR SCHOOLROOMS

NEW TRENDS IN SCHOOL CONSTRUCTION

TSA DELEGATION AT BOSTON CONVENTION

THE ARCHITECT—AND HOW HE CAN SERVE YOU

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## THE DEMAND FOR SCHOOLROOMS

A \$15,000,000 school bond election has been called for July 24 in Houston.

Except that the amount is fairly substantial, there is nothing so unusual about such an election, in these days when the nation is short at least 250,000 classrooms. Cities and school districts across the U. S. are finding it necessary to ask the taxpayers to provide for the tremendous increase in the number of pupils.

What is unique about the Houston bond election, however, is that it was clearly labelled a stop-gap. The school board members have pointed out that \$15,000,000 is only a portion of what will be needed in the foreseeable future.

The U. S. Office of Education reported in September, 1952 that 245,000 classrooms were needed in 43 states. Other government and private estimates are closer to 350,000 classrooms for the entire 48 states, and some range as high as 400,000.

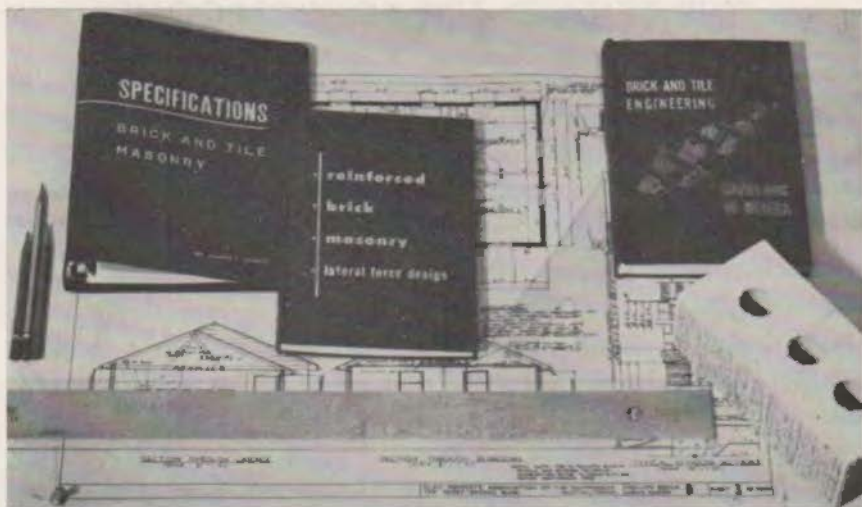
Much is being done to alleviate the severe shortage of classrooms, caused by increases in school enrollment which have approached 1,000,000 per year since 1946. School districts and communities in Texas and elsewhere have responded with intelligent planning aimed toward 1960, when, it is estimated, the total number of pupils will be 36,000,000, instead of today's 29,800,000.

A recent report of the F. W. Dodge Corporation, for instance, points out that in 1946, school and college building was only 4% of nonresidential contract awards, and 1% of total construction awards. By April, 1953, the corresponding figures were 20%, and 8%.

Nevertheless, the U. S. Office of Education stated in November, 1953, that the rate of adding classrooms must roughly be doubled if the nation is to catch up by 1960.

Texas and her people, together with citizens in every part of the country, will meet this challenge to the future of U. S. children by sensible planning and action.

And the architects of the state and nation are prepared to help, in many ways, by continued emphasis on the problems incident to planning, designing, choosing the materials for, supervising the construction of, and supplying the other architectural services needed for schools that will give the maximum in service and value.



## New Brick and Tile Basic References

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binder contains complete industry and ASTM construction and product specifications for clay masonry. The loose-leaf binder is supplemented with new specs as they are revised periodically by ASTM. Your name is imprinted on cover.

### **THE BRICK AND TILE ENGINEERING HANDBOOK OF DESIGN**

encompasses the best available data on clay masonry. Used as a University textbook, this volume is a complete structural design reference for unreinforced brick and tile.

### **REINFORCED BRICK MASONRY—LATERAL FORCE DESIGN**

presents the design profession with a concise treatise on the structural application of clay masonry to wind, earthquake, and blast resistant designs.

*The Clay Products Association of the Southwest is a non-profit organization of progressive brick and tile manufacturers, instituted primarily to provide a consulting service to architects and engineers through the development of authoritative product literature and field engineering service with offices in Austin, Oklahoma City, Fort Worth, Dallas, and Houston.*

Complimentary copies of the books described above will be sent without obligation to any architect or engineer registered to practice in Texas, Oklahoma, or Louisiana. Please give registration number when ordering. Prices to others available on request.

# CLAY PRODUCTS

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Left to right, at a luncheon for the TSA delegation during the Boston convention, are Albert S. Golemon of Houston, new regional director; Maurice J. Sullivan of Houston, immediate past national treasurer who completes his third consecutive term; and Edward L. Wilson of Fort Worth, former AIA director now replaced by Mr. Golemon.

## 27-MAN TSA DELEGATION AT BOSTON

**TSA Group Named To 12 Committees,  
Including One Chairmanship;  
Albert S. Golemon New AIA Director**

A 27-man TSA delegation has returned from Boston and the 86th annual convention of the American Institute of Architects with 13 important committee posts, including one key chairmanship; a new national AIA director; and two selections of TSA architectural work by the AIA honor awards jury.

David C. Baer, TSA-AIA of Houston, who was on the Boston convention program as chairman of the national AIA architectural practice committee, remains head of this committee under the new name of Office Practice.

### **Other Appointments**

Other TSA members named to AIA national committees were: Ralph Cam-

eron, San Antonio, research; George Pierce, Jr., Houston, chapter affairs; J. Murrell Bennett, Dallas, office practice; Ernest Langford, College Station, education; Bartlett Cocke, San Antonio, scholarships and awards; Thomas D. Broad, Dallas, Jury of Fellows; Stayton Nunn, Houston, school buildings; Arthur Thomas, Dallas, hospitals and public health; Karl Kamrath, Houston, public relations; Herbert Tatum, Dallas, urban housing; Hubert Crane, Fort Worth, cooperation with National Association of Home Builders; and Marvin Eickenroht, San Antonio, preservation of historical buildings.

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# TRENDS IN SCHOOL CONSTRUCTION

"Far West," Including Texas, Oklahoma

Listed In Survey To Determine

Use Of Materials, Methods

A recent survey of school construction in the "Far West," which by a rather curious geographical listing included Texas and Oklahoma showed the following principal findings:

1. Excellent planning, design, and construction are being used, with architects taking an important role in new developments aimed at getting the maximum in value for hard-pressed taxpayers.

2. Steel and concrete are most often selected for the structural framework of the new schools. Wood is used extensively, however, in combination with steel and concrete. In Oklahoma, for instance, wood joists were used in combination with wide-flange steel columns and beams. In California, fir framing has been combined with concrete pilings and foundations, and structural steel. In some Texas schools, wood framing was used exclusively, although the trend is definitely away from this because of the emphasis on fireproof construction.

3. Brick, used frequently for exterior facing, is almost non-existent as a structural material in schools surveyed. Because of preference for native materials, California architects often specify redwood, fir plywood, and in a few cases, rustic cedar, for both interior and exterior walls. Native bricks and building stones are frequently used in Texas for exterior facing.

4. Asphalt tile, usually on a concrete slab, was found to be the favorite flooring material in the new schools.

5. Built-up tar and gravel roofing, leads other materials and methods, although variations such as the California prize-winning school with a roof of redwood shakes, are found.

6. Acoustic tile is the favorite material for ceilings.

7. Steel sash windows led all others by a considerable margin.

8. Lighting fixtures were most often concentric ring, incandescent fixtures, although there was some use of fluorescent lighting.

9. Plumbing fixtures seemed to be rather standardized in a high percentage of the schools studied.

10. There was a wide divergence in heating and ventilating systems preferred in schools under study, probably because of differences in climate and individual preferences. In every instance, it was noted that heating and ventilating systems now are given considerably more attention than formerly.

11. The newer green chalkboard has definitely won out over old-fashioned black.

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## Asphalt Pavers Form New Association In Harris County Area

Asphalt paving contractors in the Houston area have banded together under the name Asphalt Pavers' Association, "for the sole purpose of furthering the use of asphalt products," according to a recent announcement by Earl N. Lightfoot, president of the new group.

The association will institute an educational campaign designed to present proper specifications and procedures to laymen, and to furnish professional men in the building industries with concise specifications for specific purposes.

Headquarters of the APA are at 6537 Heffernan Street, Houston. Other officers are: H. Earl Ruppert, secretary, and Harry H. Hedges, treasurer.





Part of the TSA delegation to the AIA convention in Boston: seated, left to right: Arthur E. Nutter, Houston; Louis C. Page, Austin; Maurice J. Sullivan, Houston; Mrs. Louis Daeuble, El Paso; Edward L. Wilson, Fort Worth; Albert S. Golemon, Houston; Thomas D. Broad, Dallas; standing, same order: Walter T. Rolfe, Houston; Louis Southerland, Austin; Donald S. Nelson, Dallas; Karl Kamrath, Houston; John G. Flowers, Jr., Austin; Hiram Salisbury, Houston; Fred MacKie, Houston; Eugene Werlin, Houston; Louis Daeuble, El Paso; Herbert C. Tatum, Dallas; and R. Graham Jackson, Houston.

## 27-Man TSA Delegation At Boston

(Continued from Page 5)

Albert S. Golemon of Houston, immediate past president of TSA, was named AIA regional director to replace Edward L. Wilson of Fort Worth.

### Two Honor Awards

The two TSA honor awards were among a total of only six such citations made at the AIA convention.

The Fort Brown Memorial Civic Center at Brownsville, designed by John P. Wiltshire and J. Herschel Fisher of Wiltshire & Fisher, TSA-AIA, Dallas, after a design competition, was given a first honor award by the 1954 Honors Awards Jury at the Boston convention. "This is a good example," the citation reads, "in present day terms of a basic community need to provide facilities for general public use." The Center was

described in detail in the March, 1954 TEXAS ARCHITECT.

Another TSA firm, that of Caudill, Rowlett, Scott & Associates, TSA-AIA, of Bryan, won acclaim for the Norman (Oklahoma) High School and City Auditorium, designed in conjunction with Perkins & Will of Chicago. "Here a complex high school building program has been treated in a simple and direct way," the citation for this second TSA honor award reads.

### Delegation Roster

Those in the TSA delegation at Boston were: Edward L. Wilson, Fort Worth; Albert S. Golemon, George Pierce, Jr., and David C. Baer, all of Houston; F. E. Vrooman, College Station; Arthur E. Nutter, Hiram Salisbury, Mr. Maurice J. Sullivan; S. I. Morris, R. Graham Jackson, Eugene Werlin, Wal-

(Continued on Page 12)

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## Craftsmanship Award at Fort Worth

One of the outstanding Texas Architects' Week programs during the statewide observance of this event was at Fort Worth, where Jim Davidson, a painter selected by members of the Fort Worth Chapter, was awarded a diamond pin during the third annual Craftsmanship Dinner. Left to right, Donald S. Nelson of Dallas, TSA-FAIA, state chairman for Texas Architects' Week; Herman Cox, TSA-AIA, president of the Fort Worth Chapter; and Mr. Davidson.

### *With Our Advertisers*

The Ludman Corporation, North Miami, Fla., has been awarded a contract for the new Auto-Lok aluminum awning windows in the new Lubbock High School.

Manufacturers in the steel industry have established a Steel Door Institute, under the chairmanship of A. L. Munsell of Truscon Steel Division, Republic Steel.

The American Wood Window Institute is celebrating the third anniversary of the establishment of the AWWI Quality Seal

program. Under the program, manufacturers must comply with minimum specifications in order to use the AWWI seal. These specifications, extremely detailed, include requirements for the species of lumber being used, moisture content, preservative used, balancing devices, weatherstripping, and assembly tolerances.

The Trane Company recently dedicated a new research and testing laboratory, "The House of Weather Magic," at La Crosse, Wis.

## The Architect—And How He Can Serve You

The Ontario Association of Architects, incorporated in 1890, have been carrying on a notably successful program aimed at informing the public about the profession of architecture and how the architect can serve you.

Following is a summary of some major points from a new OAA publication which is of interest to the general public:

The architect is the only authority professionally trained in all the combined phases of planning, designing, and constructing buildings. He serves his clients as an adviser, a planner, a designer, a coordinator, a businessman, a supervisor, and a consultant.

### Protects Client's Investment

As an adviser, the architect can simplify the intricacies of a building project, and help to protect his client's investment. This function extends from

the selection of the site to final acceptance of completed work.

As a planner, the architect has professional training and experience which enable him to analyze building requirements and to provide for them efficiently. This ability includes a thorough knowledge of construction methods, materials, and costs, and looking ahead for the future, so that changing requirements over the years may be economically and soundly incorporated.

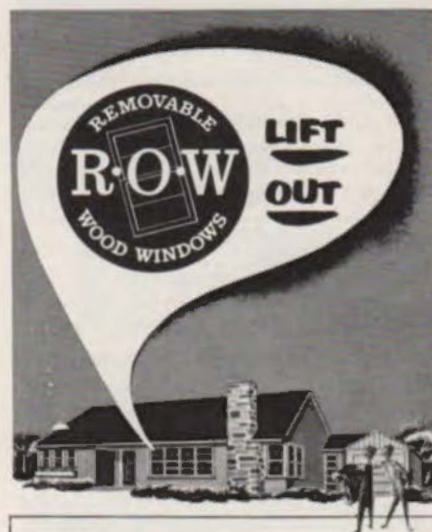
### Creates Lasting Beauty

As a designer, the architect creates dignity and beauty that will last, through proportioning, placing and sizing of openings, and the intelligent use of materials, all without sacrificing functional needs.

As a businessman, the architect calls for bids, advises on awarding of the contracts, passes on payments as construction proceeds, ascertains that specified materials and methods are being followed, and generally acts as a liaison between client and contractor or contractors, protecting the best interests of the client at all stages.

As a coordinator, the architect employs the various structural, mechanical, and electrical and many other specialists, and coordinates their design work.

As a supervisor, the architect supervises construction at all stages as it proceeds. Because of his knowledge of the work of the various building trades, and of materials and methods, he can assure a building that conforms to the spirit and detail of drawings, specifications, and other contracts. During regular inspections, the architect determines the accuracy of contractual applications for payment, and then issues certificates for payment which protect the client.



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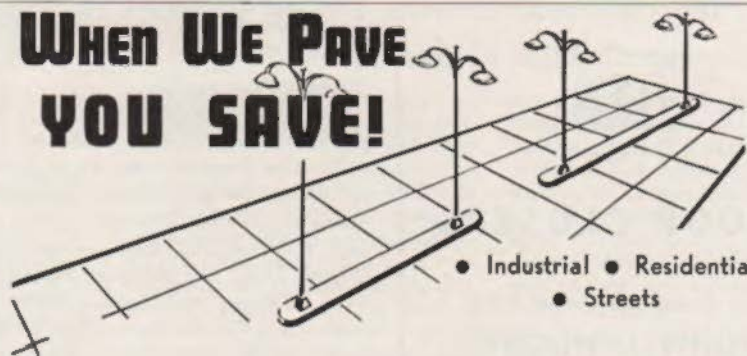
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## New Products

Southwest Industrial Coatings Company, Houston, is using titanium pigments to produce Swicco-White, an outside white house paint which it is claimed will not discolor or darken from industrial fumes or sulphur concentrations in the atmosphere. The product contains a mildew inhibitor.

The Fostoria Pressed Steel Corp., Fostoria, Ohio, now has in production a new magnetically - driven centrifugal pump called Dyna-pump. The fractional horsepower unit is driven by a rotating magnetic field instead of the usual drive shaft. Motor and pump are in one sealed unit.

Texas Vitrified Pipe Company, Mineral Wells, has prepared an illustrated four-page brochure on the use of Translot filter block in the expansion of sewerage facilities at the Fort Worth Treatment Plant. Copies are available without charge.

### 27-Man Delegation

(Continued from Page 7)

ter Rolfe, Fred MacKie, and Karl Kamrath, all of Houston; Mr. Louis Daeuble, El Paso; Donald Nelson, J. Murrell Bennett, Thomas D. Broad, Terrell Harper, and Herbert Tatum, all of Dallas; O'Neill Ford, San Antonio; Nolan Barrick, Lubbock; and Goldwin Goldsmith, Louis Page, Charles Page, Hugh McMath, Louis Southerland, John G. Flowers, Jr., all of Austin. Reginald Roberts, San Antonio.

### TSA Board Of Directors

### Schedules Summer Meet

### In Ft. Worth On July 10

The TSA board of directors will meet Saturday, July 10 in Fort Worth at the Texas Hotel, beginning at 10 a.m. President Edwin W. Carroll of El Paso, will preside at the one-day meeting.

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