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steel and Aluminum

AIA Society of Architects
These giant "straws" gulp oil 300 g.p.m.'s!

At the Penola Oil station, Detroit, Michigan, the intricate cluster of rotor-pumps and piping shown above plays an important materials handling role.

Each is keyed by number and by color in this recent installation by the R. L. Spitzley Heating Company. Various oils from any of the 65 storage tanks outside can be drawn in carefully metered lots, blended to specification, and pumped to waiting tank cars—at a cost-reducing 300 gallons per minute clip!

Two other features make this Spitzley job even more noteworthy: The short construction time required, and the craftsmanship throughout.

When next you modernize, build or expand, look to R. L. Spitzley Heating Company for expert, precisely engineered constructions. Write or call today for illustrations and descriptions of recent work, or to have a Spitzley consulting engineer call on you.
Now available from CINDER BLOCK, INC., HI-LITE Units add glamour to ordinary lightweight concrete masonry units.

The sculptured appearance of HI-LITE Units is the result of special molds that give the units angular projected faces creating highlights and shadows for unusual effects. HI-LITE Units are made from the same aggregates, assembled in the wall with the same ease, and retain proven economy of standard lightweight concrete masonry units. HI-LITE Units are cured by High-Pressure Steam guaranteeing Units that are completely cured and approach their full strength within the first 24 hours regardless of outside weather conditions.

For more information about the unlimited design possibilities, price and delivery of HI-LITE Units, contact CINDER BLOCK, INC., today.

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A Basic HI-LITE Unit, Mark I can be used as stretcher or left and right corners

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C A few of the many design possibilities with HI-LITE Units for architectural wall decorations, both exterior and interior
One day erection was only one of the advantages which Neal B. Smith, AIA, Bruce H. Smith, and associate Roy I. Albert of Smith + Smith Architects gave these schools with Polyform concrete panels. Each panel—6" thick, 4' high, and 22' long—included its own cast-in, rigid glass fiber board insulation, assuring the .09 "U" factor which is important to economical electric heating.

Each panel was cast with its own ultimate finish, quartz aggregate on both faces in this instance. Additional exterior and interior finishing was eliminated.

Colorful accents to the exteriors of both structures were provided by three decorative feature panels. Also of precast structural concrete, these obtained their rich color with cast-in Italian mosaic glass surface. And, on the Ewell School, ornamental facia panels of precast Polyfoam concrete included a decorative design worked with Italian glass mosaic tile.

All panels were produced by Pre-Cast Concrete Products Company, Royal Oak. President Will Saia engineered the combined advantages of 4-to-1 margin of tensile strength safety, high insulation quality, and fast erection detail.

Polyform panels are available, quickly, in modular units and special sizes. Color choice is wide. They save days—even weeks—of site labor, and meet every structural requirement.

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Interprofessional
Principles of Practice,
Architects & Engineers

Editor's Note: This document, prepared by the Indiana Society of Architects, A.I.A., has been approved by the National Society of Professional Engineers.

I. Preamble
Architectural and Engineering are learned professions legally recognized in each state to promote the public welfare and safeguard life, health and property.

It is a matter of public interest that these professions discharge their professional responsibilities with such fidelity to their clients and the Public as to warrant the utmost confidence.

Furthermore, it is incumbent upon these professions to prevent confusion in the layman's mind in these similar or overlapping fields of professional practice.

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including National Architect

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JULY — Mackenzie, Knuth & Klein, Architects, Inc.
AUGUST — 16th Annual Mackinac Mid-summer Conference

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Michigan Society of Architects
project in which they are proficient and shall retain professional associates for those parts in which they lack proficiency.

The professions shall maintain effective and dignified cooperation in their public statements, exchange of information, and assistance to students of the professions.

Joint Committees of Architects and Engineers shall be encouraged at state and local levels to promote greater understanding and cooperation on the many common problems for the mutual benefit of both professions and in the welfare of the public.

IV. Public Responsibility:
Both professions shall be interested in public improvements and shall utilize their special talents (in bringing them about). They shall, however, require that professional services for public improvements be obtained at equitable fees.

V. Relations With Manufacturers:
The professions may freely use the specialized services of manufacturers for integration into their designs, but shall oppose general architectural or engineering design by manufacturers or their sales representative as being inherently biased and, therefore, not in the best interest of the client.

VI. Individual Obligations of the Architect and Engineer:
Professional service, performed singly or in collaboration entails exhaustive study and research in preparation for the solution of the problem, the careful application of talent to sound planning and design and the highest integrity in guarding the client's interests. By its very nature the rendering of professional services by the Design Professions must be on a highly ethical and professional basis.


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August '58 Monthly Bulletin
More and more architects and builders are relying on Tebco Face Brick for perfect uniformity . . . lasting beauty. Tebco offers unmatched quality features, yet costs no more than ordinary brick. And when you specify or buy Tebco, you have a choice of 27 modern color combinations for custom-color styling . . . three textures—Smooth, Vertical Scored, and Matt—three sizes—standard, Roman, and Norman. Evans' million-a-week production and modern shipping facilities assure prompt delivery.

WRITE TODAY for Portfolio of full-color panels describing Tebco—the complete line of distinctive face brick.

Illustrated: EVANTONE GRAY BLEND, a delightful gray combination blend for modern structures. Also available in light gray, IMPERIAL GRAY (51A) and medium gray, MAJESTIC GRAY (52A).
Chill it.
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Dry it.

With the modern equipment available today you can condition air in any and all of the ways set forth above ... to attract customers, improve employee productivity, improve manufacturing processes, prolong product life.

No question about it. Today's air-conditioning is a far cry from the overhead fan of yester-year. And with newer and more complex equipment — complete building installations — has come the need for the kind of specialized knowledge, experience, and resources possessed by Detroit Area Mechanical Contractors.

Make sure your projects are bid by these specialists in the science of heating and cooling — to assure proper functioning and long life.

"PHI promotes the interest of the Architect-Engineer and Consulting Engineer with advertising appearing in the DAC News, in the business sections of Detroit's daily papers, and on radio."
Finding close-in parking space for increasing numbers of automobiles is a vexing problem facing almost every city. Many have found that multi-story concrete parking garages provide the best answer to the problem.

These photos show the possibilities that architectural concrete offers architects for designing parking garages of outstanding beauty and service that should make any city proud. This versatile structural material has rugged strength, unequaled resistance to severe weathering, maximum firesafety and long life.

Architectural concrete parking garages are moderate in first cost, need little maintenance and have extra long life. As a result architects, municipal officials and investors are pleased with their low annual cost.

For more information about designing modern, efficient, low-annual-cost parking garages in architectural concrete, write today for free, illustrated literature. Distribution is limited to the United States and Canada.

PORTLAND CEMENT ASSOCIATION
2108 Michigan National Tower, Lansing 8, Michigan
A national organization to improve and extend the uses of portland cement and concrete through scientific research and engineering field work
Program

THURSDAY, AUGUST 7, 1958

9:00 A.M. to 5:00 P.M.—Arrivals, Registration (Men $10.00, Ladies Free)

6:00 P.M.—Cocktail Party, Terrace Room
Sponsor: Macomber, Inc.

7:00 P.M.—Dinner, Main Dining Room
(All Meals American Plan)

10:00 P.M.—Dancing, Terrace Room

FRIDAY, AUGUST 8

8:00 A.M.—Breakfast and Board Meeting, Registration Continues

9:00 A.M.—Business Session, Club Room; President Frederick E. Wisen, Presiding
Greetings from the A.I.A., National and Regional

10:00 A.M.—Seminar, Introductions by Samuel C. Allen, A.I.A., of the Saginaw Valley Chapter
Speaker: Prof. Walter B. Sanders, A.I.A.
Subject: "Architectural Education—U. of M."

12:30 P.M.—Luncheon, Main Dining Room

AFTERNOON — Golf Tournament (for Ladies & Gentlemen); Prizes by The Detroit Edison Co., Paul Roth, Century Brick Co. Also: Party for Ladies, Arranged by Ladies' Committee

5:30 P.M.—Cocktail Party, Club Room; Host: Portland Cement Association; Awarding of "Man of the Year" Trophy

6:30 P.M.—Dinner, Main Dining Room

10:00 P.M.—Dancing, Terrace Room

SATURDAY, AUGUST 9

8:00 A.M.—Breakfast, Main Dining Room

10:00 A.M.—Seminar, Club Room; Introduction by Charles V. Opdyke, A.I.A.
Speaker: Mr. Harris D. Dean
Subject: "The Developing Space Frontier"
Film—"Mackinac Bridge Diary," by American Bridge Division, U. S. Steel Corporation

12:30 P.M.—Buffet Luncheon, Terrace Room

AFTERNOON — Rest and Relaxation

3:00 P.M.—Ladies' Tea at the Governor's Mansion. Mrs. G. Mennen Williams, Hostess

5:30 P.M.—Cocktail Party, Host: Producers Council, Michigan Chapter

6:30 P.M.—Fifteenth Annual Midsummer Conference Banquet; Presentation of Architects' Awards
Toastmaster: Hugh W. Brenneman, Public Relations Counsel
Speaker: Lee Smits, Special Representative, Michigan Consolidated Gas Co.
Subject: "Police Beat"

10:30 P.M.—Dancing, Terrace Room

SUNDAY, AUGUST 10

Breakfast, Church, Departures
Make Reservations Direct with Grand Hotel
Plans for the 15th MSA Annual Midsummer Conference at the Grand Hotel in Mackinac Island, Aug. 7-9 have been completed and, according to Chairman Samuel C. Allen and Vice Chairman Charles V. Opdyke, it promises to be one of the most interesting and worthwhile yet held.

After registration on Thursday the program begins with a cocktail party sponsored by Macomber, Inc. Dinner follows, with dancing that evening in the Terrace Room.

Friday begins with a breakfast Board meeting, followed by a Business Session in the Club Room, with M.S.A. President Frederick E. Wigen, presiding.

At the ten o'clock Seminar Conference Chairman Samuel C. Allen will introduce Prof. Walter B. Sanders, of the University of Michigan's College of Architecture and Design, who will talk on "Architectural Education—U. of M."

Luncheon will be in the main dining room.

Friday afternoon there will be a ladies' & Gentlemen's Golf Tournament with prizes donated by Detroit Edison Co., Paul Roth, and Century Brick Co.; also, the "Ladies' Surprise Party," under the auspices of the Ladies' Committee. At 5:30 P.M. the Portland Cement Association will entertain at its historic annual Cocktail Party with the "Man of the Year" trophy award. Dinner will follow in the main dining room with dancing in the Terrace Room afterwards.

Saturday morning, following breakfast, there will be a seminar in the Club Room. Vice Chairman, Charles V. Opdyke will introduce the speaker, Harris D. Dean, astronomer, meteorologist, Air Force Office of World War II in Alaska, India and China, and Leader of Lansing, Michigan, Moonwatchers in connection with Smithsonian Astrophysical Observatory for Satellite Observation. His subject will be "The Developing Space Frontier." Models of Satellites and illustrations of the manufacture and launching of them will be demonstrated.

The color-sound motion picture, "Mackinac Bridge Diary" by the American Bridge Division of the United States Steel Corporation will be shown at this meeting, with Carl H. Sander in charge.

One of Grand Hotel's famous buffet luncheons will follow in the Terrace Room.

Saturday afternoon there will be time for many things: swimming in the Serpentine pool; horseback-riding, bicycling around the island, tennis, visiting the historic old fort, or buying famous Mackinac fudge for friends.

At three o'clock, Mrs. G. Mennen Williams, the Governor's wife, will give a Tea for the Ladies at the Governor's Mansion on the bluff.

At three o'clock, Mrs. G. Mennen Williams, the Governor's wife, will give a Tea for the Ladies at the Governor's Mansion on the bluff.

The Producers' Council, Michigan Chapter will be hosts at Cocktails at five-thirty o'clock, preceding the Fifteenth Annual Mid-Summer Conference Banquet.

At the banquet, presentation of Architects' Awards will be made.

The speaker will be Lee Smits, for fifteen years news commentator over Station WXYZ, editorial writer, drama editor, outdoor writer, member of Michigan's first Conservation Commission, and a founder of the National Wildlife Federation. He is a raconteur of wit and humor, and Special Representative of the Michigan Consolidated Gas Co. His topic will be: "Police Beat."

After the banquet, which closes the Conference, there will be dancing in the Terrace Room, with the Snack Bar on the Golf Links open until 2 A.M. for early morning merriment.

Sunday will be for breakfast, church, and "Good-bys" until next year.
THE NEW SEVENTH MAN-MADE WONDER OF THE ANCIENT WORLD

By GUSTAVUS ARNOLD

WHEN THE BEAUTIFUL new green and ivory-towered, one hundred million dollar Mackinac Bridge was dedicated on June 28, 1958, it became the Seventh man-made Wonder of the Modern World. Joining the strategic Upper and Lower Peninsulas of Michigan in an architectural and engineering triumph five miles in length and arching the blue waters of the historic Straits of Mackinac, it is the longest suspension bridge on earth.

The impressive dedication ceremony was consummated in the center of the bridge by the tying of a bow knot from two strands of green ribbon which stretched from opposite ends of the bridge, thus joining the Upper and Lower Peninsulas of Michigan in symbolic union, which up to then had been separated by the Straits of Mackinac.

Government and civic leaders participating in the historic event were Michigan's five-term Governor G. Mennen Williams; Prentiss M. Brown, Chairman of the Mackinac Bridge Authority and for years an ardent bridge advocate; Walker L. Cisler, President of the Detroit Edison Company and Chairman of the dedication program; and Secretary of the Army Wilbur M. Brucker, a former governor of Michigan.

(Continued on Page 18)
**MACKINAC BRIDGE**

*Made Wonder of the Modern World*

**LIFTING STIFFENING TRUSS AT NORTH TOWER**

**MACKINAC BRIDGE ARCHITECT** — DR. DAVID BERNARD STEINMAN (Above) — the Imhotep and Pheidias of modern times — artist, engineer, author, educator, inventor, poet, mathematician, lecturer, photographer, scientist, chess wizard, bridgebuilder and humanitarian, was born June 11, 1886 in New York City "under the shadows of the Brooklyn Bridge"—the great inspiration of his brilliant and constructive life.

As a boy he was enthralled with the bridge and its design and vowed he would build one some day, too. At thirteen he was student at College of City of New York from which he was graduated in 1906 with B. S. Degree (summa cum laude); won three scholarships, twelve medals and prizes and elected Phi Beta Kappa. Received C. E., A. M. and Ph. D degrees at Columbia University.

Since 1920 he has designed or been consultant on over 400 bridges on five continents and has developed major improvements in suspension bridge design in particular.

He has 23 academic degrees including 4 earned and 19 honoris causa. In 1954 he received highest award of Scientific Research Society of America. He is Life Fellow of Royal Society of Arts in Great Britain and Past President of New York Academy of Science. He has been awarded French Legion of Honor, Grand Prix Humanitaire of Belgium, Order Da Merite Scientifique of France, Memorial Cross of Greek Legion, Croix de Lorraine of France and Order of Gold Cross of Rome.

In 1957 he received Kimbrough Gold Medal, highest award of American Institute of Steel Construction; George Washington Goethals Medal of Society of Military Engineers.

Some of his notable bridges: Florianopolis Bridge in Brazil, Constitutional Bridge in Puerto Rico, Bagdad Bridge over Tigris in Iraq. Now engaged on plans for an intercontinental bridge over Bosphorus.

When Columbia University awarded him its Medal of Excellence in 1947 the citation described him as: "Architect of bridges, whose standard for the engineer—always to place service before profit, the honor and standing of the profession before personal advantage and the public welfare above all other considerations—has been brilliantly exemplified in his own work. The quote had been selected from a credo for engineers which he had written many years before.

**TEMPLE OF DIANA**

Largest, richest temple in ancient Greek world, at Ephesus, Asia Minor, now Turkey. Designed by Chersiphron, 220 years to complete. Of purest white marble covering 2 acres, 425 ft. long by 225 ft. wide, supported by 127 marble columns 60 ft. high, each weighing 150 tons presented by many kings. Great quantities of gold shone from roof, walls. Reached from all sides by sweeping marble steps. Night Alexander's birth fired by Erostratus seeking immortality. Rebuilt. Destroyed by Goths 556 A.D.

**COLOSSUS OF RHODES**


**TOME OF KING MAUSOLUS**

Most magnificent memorial Greek genius could fashion. In Halicarnassus, now Budi-rum, Asia Minor. Designed by Brysonos and Pythoios. 353 B.C. for Queen Artemisia, widow King of Caria, captive of Persia, Parian marble vault 65 ft., base for 53½ ft. Ionic colonnade surmounted by pyramid, on apex stood 14 ft. chariot horses. King & Queen by celebrated sculptor Scopas. Total height 140 ft. Stood 1,000 yrs. Earthquake destroyed 1404 A.D. Christian defenders used tumbled blocks for fort against Turks.

**HANGING GARDENS OF BABYLON**

Mountain paradise hand-built on a plain, in Babylon near present Baghdad, Iraq, by King Nebuchadnezzar in 570 B.C. for his Median Queen, Amytis, to cure homesickness. Gardens formed a square of 4 acres raised four stories high, constructed with stone pillars covered with stones, reeds, bitumen, then covered with sheet lead overlay to prevent moisture seepage & covered by layer of earth. Summit 300 ft. Reservoir at top filled by water pumped from Esphrates fed gardens & fountains. Destroyed by Cyrus 539 B.C.
GREAT WALL OF CHINA

LEANING TOWER OF PISA
Famous leaning Campanile of Duomo Cathedral, Pisa, Italy. Designed by German architect Wilhelm von Innsbruck 1173 A.D. Took 176 yrs. to complete. Built of white marble. 179 ft. high, 7 stories divided by rows of columns & surmounted by flat roof & open gallery. Building 14 ft. out of plumb. Measures 51 ft. 8 in. diameter at base with walls 13 ft. thick. Hall that thickness at top. Contains 6 large & 2 small bells in belfry. Bells were rung when heads were cut off during Middle Ages.

GREAT WALL OF CHINA

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MOSQUE OF SANTA SOPHIA

(Continued from Page 16)

Governor Williams said: "Today we, the people of Michigan, give this bridge to America . . . who will see in it the spirit of man's conquest over the obstacles of nature."

This Seventh man-made Wonder of the Modern World was designed by the cele-

bhrated Dr. David Bernard Steinman who sat at the knee of the great Washington Augustus Roebling, builder of the Brooklyn Bridge.

Roger M. Blough, chairman of the board of the United States Steel Corporation, says this of Dr. Steinman: "An extraordinary man, capable of architectural conception on the truly heroic scale."

The world's great masterpieces in the building craft have gradually veered toward the idea of greater utility—that is, being generally more useful as well as imposingly ornamental.

Six thousand years ago the Great Pyramid of Cheops was built as a tomb for two people but the Mackinac Bridge will be useful to hundreds of thousands of people.

The man-made wonders of the ancient, the medieval and the modern worlds have all been looked upon with awe and incredulity by those who beheld them and yet it was man's own God-given ingenuity that conceived and made them.

At night on historic Mackinac Island from the gay galleried veranda of the world-famous Grand Hotel—whose owner is that renowned innkeeper and gentleman of extraordinary taste and proper decorum, Mr. W. Stewart Woodfill—the matchless spectacle of the Seventh man-made Wonder of the Modern World glitters in all its glory like a hundred million dollar diamond necklace couched across the velvet blackness of the Straits of Mackinac.

The towering bridge provides a minimum clear height at the center of the main span of 148 feet, sufficient to allow passage of the largest ships plying the Great Lakes.

Motorists can now cross the Straits of Mackinac in ten minutes in comfort and safety with a spectacular view in route. The toll plaza is located at the St. Ignace end. The bridge can handle 6,000 vehicles an hour the whole year around.

The Mackinac Bridge crosses two under water gorges. The deepest is spanned by the 8,614-foot-long suspension bridge; the other, lying between the south anchorage of the suspension bridge and
COLOGNE CATHEDRAL

Noblest specimens of Gothic architecture in Europe. Begun by Archbishop Id during reign of Charlemagne in 1248. New foundations begun 1248. Structure 500 ft. long, 50 ft. wide. Twin towers 522 ft. high, consecrated 1580. Structure complete on October 15, 1880. Cost $20,000,000. It contains the bones of the holy kings, which Frederick, the Great, took from Milan in 1162 A.D. Retained as precious relics today.

THE COLOSSEUM

Flavian amphitheater most famous in the world begun by Vespasian in 75 A.D. and finished by Titus 80 A.D. in Rome, Italy. The building, elliptical in plan, measures 615 by 510 feet with an area of 281 ft. by 177 ft. It was built of concrete & faced with white marble. It was 160 feet in height and seated more than 87,000 people. Originally used for gladiatorial combats and wild beast contests. Many Christians martyred for faith. Much stone removed for later churches & palaces.

PORCELAIN TOWER AT NANKING

Famous shrine to commemorate virtues of a royal mother in Nanking, China. Designed by Emperor Yung-lo (1403 - 1428 A.D.) to honor his Queen mother. Pagoda 260 ft. Octagon. Outer walls cased with brick of finest white porcelain. Each of 9 stories marked by overhanging eaves of green glazed tile. 5 large pearls hung on chains from apex to eaves of roof, augury for city's safety from fire, flood, storm & civil strife.

CARCASSONNE


Mackinaw City in the Lower Peninsula, is crossed by continuous truss spans. This secondary gorge is approximately 3,500 feet wide and reaches a depth to rock of 174 feet below lake level.

Seven piers founded in this secondary gorge and one near the shore at the north—St. Ignace approach—are supported on 4,767 tons of USS H-beam bearing piles. Some of these bearing piles—all of which are 14 inch 117 pound piles—are driven 110 feet to firm foundation. They support piers built in circular cofferdams to a depth of 26 feet below lake level.

The substructure, comprised of foundations, piers and anchorages, was constructed by the Merritt-Chapman & Scott Corporation. The main tower foundations extend to a maximum depth of 206 feet below the lake level.

The anchorages rising as high as a ten-story building above the water level and covering an area one-third of a football field, each contain about 85,000 cubic yards of concrete and are capable of resisting a total pull from both cables of 60,000,000 pounds. More than 600,000 barrels of cement were used to build the piers and anchorages.

The American Bridge Division of the United States Steel Corporation fabricated the major portion of the foundation caissons and cofferdams and fabricated and erected the steel superstructure.

The over-all length of the entire project is 26,444 feet, of which 19,205 feet is of steel superstructure weighing 67,300 tons.

The ivory painted towers extend to a height of 552 feet above low water. They are of the conventional flexible type of cellular construction with fixed bases. The two shafts of each tower are connected at four levels by horizontal struts of open-truss construction. The height of the towers above water is equivalent to a forty-six story office building.

The backbone of the bridge is formed by two cables each 24½ inches in diameter, 68 feet apart, center to center. Each is made up of 37 strands of 540 galvanized wires (0.196-inch diameter). A total of 12,580 wires were required for each cable, or a total length of 41,000 miles—sufficient to encircle the earth at the equator one and two thirds times. The two cables weigh 11,500 tons. The cable sag is 350 feet, equivalent to 1/11 of the length of the center span. These cables support the entire roadway of the suspension section through 368 South Backstay Span Being Placed Between Piers 17 and 18.
vertical suspenders at 39-foot intervals made from 2½-inch diameter Tiger brand galvanized bridge rope. These have a breaking strength of 235 tons each and are pre-stressed to remove structural stretch. A total of 100,012 feet of wire rope suspenders were used to support the bridge floor—8,614 feet long.

The suspended truss spans, known as "stiffening trusses" are each 68 feet wide and 38 feet deep, center to center chords.

The bridge roadway is forty-eight feet wide accommodating four lanes of traffic with the opposing traffic being separated by a raised center mall two feet wide. The two outer lanes are 7,400 feet by 12 feet wide using 4½ inch filled I-Beam-Lok steel bridge flooring. The two inner lanes are 7,400 feet by 11 feet wide using five inch PL-Type open I-Beam-Lok with the 7,400 feet by 2 feet median strip of the same steel flooring. The 362,000 square feet in all weighs 7,597 tons.

By covering the entire suspended roadway with lightweight I-Beam-Lok the floor weight was more than cut in half; the bridge was open to traffic sooner because of the ease of installation; and the weather-free traffic lane and improved aerodynamic stability was secured be-
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cause the open I-Beam-Lok allows both snow and wind to go right through, assuring good driving conditions.

The 5,694-foot south approach is made up of sixteen deck-truss spans. The north approach, 3,610 feet long, contains twelve deck-truss spans. The approach spans carry a 48-foot wide roadway of six-inch reinforced concrete, topped with a layer of bituminous concrete. The trusses which support the roadway are 34 feet apart, center to center of trusses, and vary in depth from 16 to 53 feet.

Approximately 10,350 men were employed in designing and building the Mackinac Bridge. A total of 85,000 blueprints and 4,000 engineering drawings were used. It took 3 1/2 years to build.

The Seventh man-made Wonder of the Modern World was begun May 7, 1954 and was open for traffic on November 1, 1957.

The architect of the bridge, Dr. Steinman, in his dedicatory address leaves us this as a fitting epilogue: "The Mackinac Bridge is a poem in steel, a bridge of peace in which no effort was spared and nothing was stinted to make it the finest and most beautiful in the world."

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August '58 Monthly Bull
Head Women’s Activities for MSA Conference at Grand Hotel

ABOVE: Mrs. LaVern James Nelsen

LEFT: Mrs. James Barr Morison

PLANS FOR THE WOMEN’S ACTIVITIES at the 15th Annual Michigan Society of Architects Conference at Grand Hotel, Mackinac Island, are complete. Among the highlights of the program is a Surprise Party to be held Friday, June 8th. Just what is the nature of the event is a dark secret. But rumors emanating along the grapevine portend that it will be terrific!

On Friday, also, will be a tea, given by Mrs. G. Mennen Williams, wife of the Governor of the State of Michigan, at the Governor’s Mansion high on the bluff overlooking the Straits of Mackinac. All women attending the Conference are invited.

There will be a Golf Tournament for men and women; a cocktail party every night preceding dinner, and dancing in the Terrace Room each evening.

Mrs. LaVern J. Nelsen is chairman of the Women’s activities and Mrs. James B. Morison co-chairman.

Their committee consists of Mrs. Allan G. Agree, Mrs. Samuel C. Allen, Mrs. Harvey C. Allison, Mrs. Lyall H. Askew, Mrs. Hurless E. Bankes, Mrs. Augusto Bini, Mrs. L. Robert Blakeslee, Mrs. Vincent T. Boyle, Mrs. Paul B. Brown, Mrs. Joseph T. Daverman, Mrs. Ernest J. Delk, Mrs. Howard E. DeWolf, Mrs. Gerald G. Diehl, Mrs. Paul A. Flannagan, Mrs. Peter Frantz, Mrs. Lynn W. Fry.
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Romance of the Mackinac Bridge
By C. Allen Harlan, Honorary Member of the Michigan Society of Architects, and Chairman of the Governor's St. Lawrence Seaway Commission.

Everywhere we look today we see the dramatic proof that there is nothing more natural to man than to build and grow. We live in a world confronted with obstacles but not confounded by them. This was not the kind of world envisioned by Omar Khayyam in his Rubaiyat:

"Ah Love, could you and I with him conspire
To grasp this sorry scheme of things entire,
Would not we shatter it to bits and remold it
Nearer to the heart's desire."

In the flights of man's aspirations, on the loftiest peaks are found the highest ideals. The kind of world to which we aspire comes not from muscle and machine alone but from the power and reality of dreams. Yet who would have dared dream a century ago that the Straits of Mackinac would submit themselves to not one but a system of shafts and sockets and sinews, that probe far beneath the channel itself, to bed rock? These towers lift their massive shoulders above the mist of the Mackinac, resplendent in the noonday sun. A mighty system of cables span the towers and an arch that dwarfs the rainbow is sprung. The Straits of Mackinac have submitted themselves to the conqueror.

Bridge at Mackinac
By David B. Steinman

"Generations dreamed the crossing; Doubters shook their heads in scorn, Brave men vowed that they would build it.
From their faith a bridge was born. There it spans the miles of water, Speeding millions on their way, Bridge of vision, hope and courage, Portal to a Brighter Day."

Down through the years the turbulent Straits will beat upon their moorings, sometimes with the pounding of a mighty wave, again with a ripple as soft as a cat's paw. Generation after generation will rush pell mell down the American road, over the great bridge into the Idle wild that is Upper Michigan. It behooves us to have a sense of history in what we are about. Is there an architect who can look at the Mackinac Bridge in all its strength and beauty, unmindful that tomorrow's sky line has every prospect of becoming more famous than our production line, or that it will in some way mirror his own by line? Everywhere we look, we see man expressing himself in his most natural bent—to build and grow. Everywhere we look, we see old, outmoded and obsolete buildings which must be torn down and rebuilt in the very image of America and its culture.

Can there be any doubt that a new age impatiently awaits expression, and not in vain? This trend shows itself in your car, your home, your furniture, your super highway, shopping center, yes, in your very thinking processes. No age ever attains maturity until there is an expression of itself in its own terms, in its architecture, its art, its music, its sculpture, in all the facets of creative expression, and we are doing just that. Already in the early stages of this transition, conspicuous by their absence, are the Grecian column and the classical influence. Can there be any doubt that the products of your dreams are to be the monuments by which this new age is to be remembered? It is the pioneers that live on. The time will come when our sky line will be hallowed because you gave it form and shape and substance, and men will say as they gaze upon the fruits of your labors "See this our fathers did."

Here we are on the spot hallowed in history, surrounded by the crystal waters of Lake Michigan, Lake Huron and Lake Superior. Did we not come to this Emerald Island to feast upon its beauty, exchange ideas, and escape the pressure and complications of our own mankind? In the channel itself, setting it in motion that we pay our respects to Father Marquette and the men of courage who braved the wilderness to give us our heritage. Turning to the setting sun, with the Bridge in silhouette, we can be grateful that ours is the privilege of "Changing this sorry scheme of things entire and remolding it nearer to the heart's desire."

Just to the north of us a vast mineral deposit was rudely awakened from the sleep of eons and eons of time. But for the way the magnetic compass was deflected, it was a mountain of rubble. Then there came a great hungering for this versatile material that serves mankind in such a variety of ways. Today, the Mesabi iron deposits are a household word. Yesterday it was Marquette and Menominee. Billions of tons have been uprooted from their slumbers, loaded on ore boats and borne on the bosom of the Great Lakes to the blast furnaces where the ore is subjected to a baptism of fire and brimstone. Through the open hearth, the blooming mill, slab mill and wire drawing mills and back again almost to the very spot from whence they came. Now, on mighty shoulders that scale the sky, the steel cables will sleep no more. Behold this system of shafts and sockets and sinews, snatched from the slumber of eternity and spun into an arch that dwarfs the rainbow, that its beauty might challenge its usefulness.

How different was it 6,000 years ago when Cheops built the Great Pyramid. There, according to Herodotus, 100,000 men worked for 20 years that the bones of the Pharaoh might have a safe repository. Of the original Seven Wonders of the World, it is the only one remaining. Poets say that this largest of all pyramids is a monument to eternity. Cynics hasten to say that it is rather a monument to the stupidity of its creator who wasted the total product of a whole generation of the most advanced civilization on this earth to satisfy his whim. All in all, probably
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four billion man hours of backbreaking work went into this undertaking, but all for naught insofar as the advancement of people's prospects. Its achievement is that of persisting almost without change for 6,000 years. Like the Great Pyramid, the Mackinac Bridge will watch the years go by, the centuries go by, but, unlike this monument to stupidity, the shoulders of this mighty giant of steel and concrete must carry its heavy load. That service to mankind is effected without pause, without break, without rest.

Sometimes the silhouette of the Bridge against the sky will paint a picture of breathtaking beauty. Again the wind will whistle and pull through the arching labyrinth of cables and columns and shafts, but for the supporting arch there can never be any respite.

Lifting its head on high, this triumph of human progress, like the Pyramid, will stand changeless in a changing world. In the storm it will be a refuge. In sunny climes it will tower above the Straits boldly proclaiming itself as a miracle of courage, skill and achievement...a thing of function in a functional world.

For how many hundreds of years will it watch the sun slowly sink beyond the wonderland of Michigan waters? For how many millennia will it observe distant worlds come twinkling into view, first only a few and lo, myriads that no man can count?

Does not the Mackinac Bridge herald the morn of a mighty day on the horizon of tomorrow's world? Is not the Bridge our industry in epitome? Somewhere in the muscle and bone of this great structure are the dreams of pioneers who forged the sinews of a nation out of mountains of coal and iron and limestone.

Hear ye, oh architects, what edifice splendid will be the repository of your dreams?

In man's long march over barriers bridged and by passed, he has scaled the highest mountains, probed into the depths of mother earth. As to their size, monument, and contents, he looks into the heavens with a knowing eye. Yet even now, alas, in the faces of his fellowman across the street or beyond the iron curtain, he neither knows nor at times understands what is in their hearts. Certainly if man can master his environment and the secrets of the universe, he can know himself. Now that he possesses tools of such great destructive power he must not subject the human race to the horrors and hammer blows of atomic warfare.

To meet this new situation and solve it, fate has given us the most liberal young generation this old earth has ever seen. This sudden swelling of our population is itself a phenomena of war. Providentially perhaps it presages peace.

Lend your ears, you can hear their voices, light, shrill and hearty. In this medley of hope for human prospect is there a sound of hate, or greed, or bigotry? If one shows itself we planted it there! Out of your homes and your hearts they proceed to the very doorstep of destiny.

Youth, eternal youth, is the only hope of the world! Youth with all of their love and none of our hate! Youth brimming over with ideals and none of our cynicism.

This brings sharply into focus thoughts of immortality which is just another word for eternal youth. Immortality? Is there such a thing? Will their coming and going be as much as a grain of sand in the scheme of things? Is there to be among them men with the courage of the Father of our Country, the versatility of Ben Franklin, the ideals of Thomas Jefferson, the foresight of Abraham Lincoln or the personality of Franklin D. Roosevelt?

To meet and solve the problems of tomorrow's world, they must have all of this and more.

Lend your eyes! There they go down the American road and over the Mackinac Bridge and the thousands of bridges that characterize America, onward and outward to that realm where hopes, dreams, and ideals come to grip with reality. Among them there must be the leaders who can keep their perspective in the face of adversity, in the crash of disappointment those who can hold on to their dreams; those who can lead us upward, ever upward, to a world of peace.

Americans young, Americans strong, The world awaits your rising song. Americans strong, Americans young. The song of songs is yet unsung.

---

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NOTE: Much of the material for this story has been gleaned from history books. Myron David Orr, author of two novels depicting the lives and romances of the north country, who has spent many years of his life in collecting information about Mackinac Island and especially about Edward Biddle, says that much of the now-known facts about him are incorrect if "Biddle's own letters are to be believed."

Orr will release a third novel, "The Outlander," soon—a novel reported to be based on the life of Biddle and his romance with Angelique. Orr's source of information, he says, are from the original letters... "original letters written by the person concerned at the time are the only true bits of evidence," he states. "All others are hearsay."
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traders. He became a partner in the firm of Biddle and Drew and took an active part in the affairs of his country. He received special distinction by appointment by Lewis Cass, Governor of the Michigan Territory, as sheriff of Mackinac County, loosely including the area westward to the plains from Lake Superior. He served two terms as sheriff—a position of much power and influence—and later became mayor of the island. Biddle’s Point is named for him, and the site of the present golf grounds near the Grand Hotel was long known as Biddle’s Field. His esteem followed him in death for he is buried in the Post cemetery, an honor seldom accorded a civilian.

Mrs. Biddle, the lovely Indian princess, ran his household with unusual dignity and poise. With quiet gentleness she kept the rooms neat and pleasant. Her flower garden was the most beautiful of the community where beautiful flowers were accepted as part of the wilderness heritage. She wore her Indian garb—always.

As they prospered, Edward added to his house. He bought the adjacent property presumably for the addition of a bedroom. Some records say that he paid $185.00 for this land—others report that $185.00 was the price of the original house. In this, as in most stories of the Biddles, there are many differences of opinion among the historians.

He brought up a building from the beach and added a kitchen "L" to the rear of the house for his Angelique. This part of the house collapsed or burned in 1910 but will be added to the restored home.

Children—seven of them—blessed the union of Angelique and Edward. Only three of them—Sophie, John and Sarah—lived to maturity. They were well-educated and talented. Angelique, in her gentleness, also took to her heart seven foster children and reared them. Heartbreak and sorrow seemed to follow her Island home with Edward. Both died in the old house which slowly slipped into the past where it would have remained had it not been for the current interest of the Architects and other members of the building industry to make it a major historical shrine in America.

It is the hope of the MSA that the

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restoration of the Biddle House will give impetus to an eventual restoration of the entire Market Street area as a historic shrine by the State or other agency. Present plans are that the entire area may be preserved like the French Quarters of New Orleans and Williamsburg. It is well worth preserving—it is Michigan’s last real heritage.

The State Medical Society’s Beacon Memorial was an important step in the overall restoration. When finished, the Biddle House will add another link in the story of Old Market Street—a living reminder of the days when Michilimackinac was the main street of the fur trade of the world; a memorial to the men and women of the Island and the part they played in its destiny.

Manitou looking down on the thousands who come to see the man-made bridge across his waters will smile as the sentimental stop to watch the workmen rebuild Angelique’s house. He will give it his blessing—one he has withheld from other houses.

It is storyed that when plans to restore the Astor House and one other of the wealthy fur traders’ buildings on the Island were made, Manitou frowned. He looked with disfavor on enshrining the abode of one considered by many as a traitor, a robber, and no true friend of the Indian.

“They will never make a shrine of these buildings,” they said, when informed that the Mackinac Island Park Commission was to start work on the buildings.

“They will never make a shrine of these buildings,” they said as work progressed... and they never did. The Astor House, partially restored, mysteriously collapsed, damaged beyond repair. The other building burned to the ground—fired, ‘tis said, by a blazing arrow from the heavens... Manitou had spoken... they never made a shrine to one who had betrayed his people.

But work on the Biddle House goes along well these days. The Commission leased the property to the Biddle House Restoration committee for the duration of the work. Upon completion, the building will be returned to the State as a gift from the state’s building industry.

The Committee, headed by Langius, includes, in addition to the Michigan Society of Architects, representatives of the entire building industry, according to Frederick E. Wigen, president of the MSA. Emil A. Lorch, FAIA, Professor Emeritus of the University of Michigan, is architectural consultant of the restoration project, and Warren L. Rindge, AIA, of Grand Rapids, is the Architect.

Other members of the committee are Marvin J. Brokaw, Paul R. Marshall, John J. McGarrigle, Talmage C. Hughes, Roger Allen, Clair W. Ditchy, Willard E. Fraser, Harry W. Gielsteen, Clarke E. Harris, Louis C. Kingscott, and Walter G. Sandrock.

The restoration will cost an estimated $56,500. Wigen said. Each branch of the building industry will contribute an amount proportionate to the work it would normally put into a house. Wigen said. For instance, the roofers will contribute about two percent of the cost. Also contributing to the project are electricians, plumbers, humber firms, heating, masonry and cement companies, etc.

And so, Angelique will have her house again. This time laughing vacationers will stop in her kitchen instead of weary voyageurs home from their fur trapping. The visitors will come by streamlined cars, trains and planes instead of on snow shoes across the frozen straits or in Indian canoes, down the streams and rivers. Wide, modern roads have replaced the green, forest trails.

The Mackinac Bridge hangs suspended across the waters, but the imaginative will see the old house as it was in the days when its young mistress loved it well. They will relive her romance, grieve with her over Sophie and listen for the whispers in the lilacs.

An old poem reads:

"That old, old house on Astor street
Has held its meed of joy and care;
The goodly garden now is gone
And weeds are everywhere."

But thanks to the Michigan Architects and others in the industry, the weeds will be replaced by Angelique’s wondrous garden and, who knows, perhaps again the "old, old house will hold its meed of joy and care."

"Later named Market Street.

![Image of the Biddle House]

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Biddle House

Visitors at the M.S.A. Midsummer Conference on Mackinac Island this year will find an additional point of interest in the historic Biddle House on Market Street.

Since our last Conference there, the old house has been torn down and all salvageable material marked for reuse in the restored structure. Contractor, Ell Van Sweden, of Grand Rapids, has spent almost three months now on the restoration project, following plans of Architect Warren Rindge, of Grand Rapids. The property has been deeded to the Biddle House Restoration Committee, of which Adrian N. Langius, F.A.I.A., of Lansing, is Chairman. After restoration it will be returned to the State to become a "Hall of Fame," for the building industry of Michigan, and especially for those whose contributions have made it possible.

So far, contributions have not reached the amount of the budget, and the Committee is in need of your help. An "Order Form" is attached hereto, and we suggest that you make use of it NOW.


BIDDLIE HOUSE BEING RECONSTRUCTED

Mr. A. N. "Gus" Langius, F. A. I. A., Chairman
Biddle House Restoration Committee, 120 Madison Ave., Detroit 26

Dear "Gus": Please count me in as a contributor to the Restoration of historic Biddle House on Mackinac Island. It will be a splendid tribute to the building industry of Michigan.

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New Members

Elected to membership in The American Institute of Architects and assigned to the Detroit Chapter are:


Crane, a resident of Livonia, who received his bachelor of science, architectural engineering from the University of Detroit, is chief draftsman with Wheeler & Becker, Architects of Detroit.

Millay, a resident of Hazel Park, received his bachelor of science, in architectural engineering at the Lawrence Institute of Technology. He is presently employed as a draftsman with Clair W. Ditchy, Architects of Royal Oak.

McRyedge, a resident of Oak Park, received his professional education at the Lawrence Institute of Technology. He has been employed since 1952 by Theodore Rogovy, Architect of Detroit.

Nagy, a resident of Detroit, received his professional education thru the Beaux Art Institute of Design. He is presently manager of the Detroit Office of the Lansing architectural firm of Lee Black & Kenneth C. Black.

Parker, a resident of Royal Oak, who received his bachelor of architecture at the Massachusetts Institute of Technology, is a draftsman with Harley, Ellington & Day, Inc., Architects & Engineers, of Detroit.

Storrer, a resident of Dearborn, received his professional education at the University of Michigan and received a Taliesin fellowship, as an apprentice to Frank Lloyd Wright. He maintains his own office in Dearborn.

Strauss, a graduate of Lawrence Institute of Technology, is a son of Frederick G. Strauss, A.I.A., of the firm of Smith, Hinchman & Grylls Associates, Inc., Architects and Engineers, of Detroit, where he had been employed.

KURT A. WEBER, of 311 Beaupre Road, Grosse Pointe, has become an associate member of the Detroit Chapter, American Institute of Architects, it is announced by Gerald G. Diehl, Chapter president.

Weber, a native of Germany, was educated and experienced there, where he also practiced architecture under his own name.

At present he is a designer with Wakeley-Kushner Associates, Architects and Engineers of St. Clair Shores, Mich.
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PHOTO ILLUSTRATORS, INC.
August '58 Monthly Bulletin
Contemporary

ANN ARBOR—"What is the building supposed to do?"

This is the question every architect asks himself, says Dean Philip N. Youtz, A.I.A. of The University of Michigan College of Architecture and Design.

"Then the architect develops his design around this contemporary activity. The modern building is thus not a monument, but a practical model of a living institution."

Dean Youtz makes it plain that contemporary architecture has its roots in the present history, not the past: "It is not an imitation or a reproduction, but an authentic or original expression of current social needs. Period design has all but disappeared in our day and has been replaced by living design."

What has been gained by this revolution in the arts of design? Says Dean Youtz, "The gifted artists and architects have found their talents liberated. But the mediocre designer can’t go on masquerading as a creative architect or artist."

"Modern work startlingly reveals the artist who leans on the representation of a pleasing scene and the architect who relies on period embellishment. The modern painter or architect must trust to his own talent to produce an acceptable product."

Dean Youtz stresses that the honest modern artist feels the obligation to rely on his own art and not on subject matter or period decoration: "It’s very easy to acquire pictorial skills that enable one to reproduce a variety of pleasing scenes such as boats, trees, figures, and buildings. The naive observer sees a sailboat which he admires and concludes quite erroneously that the picture is good."

"The likeness may be excellent but the watercolor may be mechanical and un inventive. The artist may have put none of himself into it. Or again, one sees, for example, miles of Venetian style buildings of plaster or cement along the canals of a Florida city. But they convince no one that the scene is Venetian."

"Our best modern design has a purity of line or form that suggests both engineering and architecture, draftsmanship and art," the Dean concludes.
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CLIFFORD N. WRIGHT, A.I.A., prominent Detroit residential architect, was interviewed June 26, by Jean Loach, WXYZ moderator on the "Our Friend Harry" program.

Mr. Wright discussed the importance of engaging an architect. When Miss Loach asked him how a family would go about this, Wright suggested:

"Call our executive offices of the Michigan Society of Architects and you will be directed to firms interested in residential projects."

When told that many home buyers are afraid of the extra cost, Wright replied:

"The extra cost is nominal when you consider the advantages. The homebuyer really spends more when he doesn't consult an architect because he gets less for the money he spends. The home that is planned for the individual includes facilities and designs that are suited to his family's needs, tastes and personalities."

Some of Mr. Wright's homes were shown on the screen.

Miss Loach will seek to give her audience helpful information throughout the summer, as she interviews other architects. The second show of the series, featuring an architect, went on the air July 17.

The program was made possible by C. Russell Wentworth, Secretary of The Producers' Council, Inc., and an MSA Committee, Charles MacMahon, Frederick Stickel and John Jickling.
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WESTERN MICHIGAN CHAPTER was represented in Cleveland, July 7-11, at the A.I.A. Annual Convention, by several of its members and their wives.

This year's convention marked the beginning of the second century of the Institute's existence, and the Western Michigan Chapter members joined in a program that leads the way to an exciting future in the culture, educational and technical development of the Institute and its influence in our great country.

The host Chapter prepared a social program that was interesting and entertaining. It was at the famous Scrapple Breakfast that Western Michigan Chapter members and their wives were photographed. Edwin B. Morris, Sr., A.I.A., of Washington, D.C., and his charming wife, Faith, were hosts of the affair, sponsored by Mr. Morris' firm, The Tile Manufacturers' Association, Inc.

Left to right: Adrian N. Langius, F.A.I.A., of Lansing, Mr. and Mrs. Louis C. Kingscott of Kalamazoo and Peter Van der Laan of Kalamazoo. Mr. Kingscott was made a Fellow of the Institute at the Convention.

Left to right: Elmer I. Manson of Lansing, Mrs. Manson, Edwin B. Morris, Sr., of Washington, D.C., Mrs. Morris and Mr. and Mrs. David E. Post

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326 N. Washington, Saginaw

PAUL A. Brysselbout, A.I.A., of Bay City, ALDEN B. DOW, F.A.I.A., of Midland, and FREDERICK E. WIGEN, A.I.A., of Saginaw, have been appointed to design the proposed Tri-County College in Midland.

The three firms will merge their talents and set up a separate office for the project.

The college will be constructed and undertaken on a tri-county basis with Bay City and Saginaw and Midland counties participating. An estimated $8,000,000 will be needed for land acquisition and improvement, water and sewage plants, buildings and equipment.

The idea of a local college dates back to 1947-48. By 1955, the idea of the three counties establishing a community college had been consummated.

The three architectural firms are enthusiastic about the merger. Mr. Wigen remarked:

"We like to think of this as an adventure instead of a venture. It will be interesting to work with fellow architects from other firms by combining our efforts and ideas in a compatible manner."

WILLIAM WESOLEK, A.I.A., of Bay City, has been named Chairman of the Steering Committee in conjunction with Saginaw Valley Chapter, A.I.A., the Saginaw Valley Contractors Association and Tri-City Builders & Traders Association.

The Steering Committee consists of nine men from these groups and their aim is to establish better relations among architects, contractors and builders.

Plans for a golf league and dinner dances are under way.

The committee consists of A.I.A. members Francis Warner of Midland, Clarence L. Waters of Saginaw and William Wesolek of Bay City; contractors John Collinson, Bert Hieneman and Tim Nagle; Builders and Traders, Walter Leech, John Witheridge and Donald Trier.

"Doc" Waters was enthusiastic in his opinion that this new committee should do much to strengthen the relations of these organizations and he added:

"Although this committee will be able to deal only with problems of this area, it would seem that other areas might benefit from similar groups."

PUBLIC RELATIONS covers a great deal, however, it has been decided, by experts, that to become successful in this field architects should be joiners and doers, not merely thinkers of the things that should be done to further the profession.

David F. Oeming, A.I.A., of Saginaw, is a doer. Besides being senior partner in the Oeming & Waters firm, he is Secretary-Treasurer of the Citizens' Committee for the Saginaw Planning Commission; Chairman of Public Relations, Saginaw Valley Chapter, A.I.A.; Chairman of the Dean's Committee, U. of M. Alumni Workshop; Treasurer of U. of M. Alumni Association of Saginaw; A.I.A. Professional Committee; Saginaw Y.M.C.A. Camp Board; President of the Saginaw Ski Club and President of the Northwoods Hunting and Fishing Club.

Oeming has served two years on the Saginaw Red Cross Board and is on the Board of Directors of the Riverside Kiwanis Club.

Many of these committees are correlated to avoid spreading his efforts too far. Many members are working to capacity on one or two committees and would rather devote all their efforts to the perfection of one endeavor, but Mr. Oeming is proving that if you want to get something done ask a busy man—he'll have his secretary do it.

J. LAURAN KRETCHMAR, A.I.A., announces he has recently started his own practice at 1137 Dye Road, Flint 4, Michigan.

Mr. Kretchmar is a graduate of Culver Military Academy and the University of Michigan. He became a registered architect in Michigan in 1953 and received his experience with S. A. Nurmi & Associates, Inc., in Flint.

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To the left is the detached kindergarten unit, connected to the main entrance courtyard by a sheltered walkway. The higher roof of the Multi-Purpose Room block is expressed by its vertical striped brick pattern.

Typical Corridor: As one walks along the main east-west corridors a changing panorama unfolds. Attractive landscaped courts appear, first on one side and then the other. Wood paneled wardrobes, used by each classroom, open into the corridor.

GREENFIELD ELEMENTARY SCHOOL
Birmingham, Michigan

EBERLE M. SMITH ASSOCIATES, INC.
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Detroit, Michigan

This school has been cited as one of the seven best American Schools for 1958 by The School Executive, a nationally known magazine for educational administrators, in its annual Better School Design Competition. Each year this publication invites the architectural firms doing outstanding work in educational design throughout the country to participate in the competition.

Out of 147 different entries this year, only seven were selected for top awards, and the Greenfield Elementary School is the only school in the Middlewest to be so honored. Eberle M. Smith Associates, Inc., Architects and Engineers, of Detroit received the magazine’s award at a presentation ceremony on the University of Buffalo Campus. This is the third time that this firm has been cited in this magazine’s Better School Design Competition.
Floor Plan: The orderly, modular patterns of construction is apparent in the floor plan. Into this regular pattern the architects introduced a pleasant variety of vistas by the use of variousized landscaped garden courts and a changing palette of classroom colors.

The special characteristics of kindergarten education are expressed by setting this unit apart from the main building and providing its own play area. The hexagonal plan and double-ridged roof complement the low rectilinear form of the main building and provide a sympathetic scale and sense of shelter.

Courtyard: The smaller courtyards are at the perimeter of the plan, opening to the play areas. Their space is defined by the continuous sheltered walkway that edges the building and by the low pierced brick walls. Classrooms with south exposures are shielded from the sun by an eight-foot roof overhang.
NOVI ELEMENTARY SCHOOL
Novi, Michigan
CHARLES W. LANE & ASSOCIATES, ARCHITECTS
Detroit, Michigan

This school was accepted for exhibition at the Regional Convention of the American Association of School Administrators in St. Louis, Missouri, February 22-25, 1958. It was also exhibited in Lansing, Michigan, during October, 1957, at a meeting of the Michigan Association of School Boards, where it received the following citation:

"The jury was impressed by the use of a hilly site which would have been difficult and expensive to build upon if a conventional compact plan had been employed. The use of small classrooms buildings nicely disposed as the contours required is commended . . ."

This school is now under construction near Ten Mile Road in Novi, Mich.
This school is being constructed for 420 students, 30 per classroom and 60 per grade.

Provision is made for expansion to house a maximum enrollment of 600 students.
Rendering above covers both the Ewell and West Utica Elementary Schools

This floor plan was used for the Ewell as well as the West Utica School.
These are two of Michigan's first electrically heated schools. Neal B. Smith, A.I.A. says, "From our preliminary studies it appeared that sizeable savings could be effected in original equipment and construction costs if the usual hot-water heating system and boiler room were replaced by electrical heating equipment. It also appeared that these initial savings were sufficient to off-set additional insulation costs and increased operation costs for many years.

It was then agreed by the Board of Education, the engineers and ourselves, that to be completely satisfied with the preliminary analysis, construction proposals should be received for both heating methods in buildings properly designed for each.

Both designs have the same floor area, but in the plan for electric heat six inches of glass fibre insulation is added in all ceiling areas, and the boiler room area is converted to classroom space. Therefore, rather than taking a dollar credit for the omission of the water-heating equipment, we have a school to serve thirty more students.

CONSTRUCTION COST:

For comparison purposes, the cost figures used are those of the lowest responsible bidders who submitted proposals for both heating methods. Costs of site work and equipment are not included in the building cost.

<table>
<thead>
<tr>
<th>UNIT</th>
<th>HOT-WATER HEAT</th>
<th>ELECTRIC HEAT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Building cost</td>
<td>$368,044</td>
<td>$371,787</td>
</tr>
<tr>
<td>Cost per square foot</td>
<td>13.60</td>
<td>13.61</td>
</tr>
<tr>
<td>Cost per cubic foot</td>
<td>1.19</td>
<td>1.20</td>
</tr>
<tr>
<td>Cost per pupil</td>
<td>920. (400 pupils)</td>
<td>864. (430)</td>
</tr>
</tbody>
</table>

Because of greater pupil capacity of the electrically heated building, the significant figure here is the cost per pupil. A net savings of $56. per pupil can be attributed to the electrical system. The initial construction cost savings of $56. per pupil are effected by using an electrical heating system. This saving is off-set by an increased operation cost of $1.53 per student per year. The "breakeven" point is, therefore, 37 years, or about the usual life expectancy of a school building."
Detroit Architectural Golf League

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August 12—Pine Lake Country Club—Pontiac
September 9—Plum Hollow Golf Club—Detroit
October 14—Dearborn Country Club—Dearborn
Sixth Annual Dinner Dance—Halloween Costume Ball—October 25
Birmingham Country Club, Birmingham

Product News

THE CENTURY BRICK COMPANY of Detroit is now exclusive representative for a complete new line of Appalachian shale face brick made by The General Shale Products Corporation of Johnson City, Tennessee. This corporation operates twelve plants in Tennessee, Virginia and Kentucky, including their new million dollar tunnel kiln near Louisville, Kentucky opened June 25.

According to Sam Burtman, president of The Century Brick Company some of the distinctive features of General Shale are a complete quality control program, a modern experimental laboratory and a department of marketing research.

The acquisition of General Shale’s Appalachian Line, says Burtman, adds substantially to the Century Brick Company’s position to meet the requirements of the most discriminating architects in the Greater Detroit area.

A NEW DELAYED ACTION LIGHT SWITCH keeps the light on about 35-60 seconds after turning the switch off. Housed in a standard sized case, gives a "PATH OF LIGHT" Protection between points within the Home, Factory, Office, Warehouse, etc. "The LIGHT THAT GOES OUT AFTER YOU DO", giving Exit Protection against Falls, Sluggings, and Holdups.

Flush toggle, single pole designed, the switch has a capacity of 10 amperes at 125 volts, 5 amperes at 250 volts, and is listed by Underwriters Laboratories. Edco Delayed Action Switches can be quickly and inexpensively installed in existing switch boxes or on new construction. Carries lifetime exchange warranty.

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THIN MARBLE WALL AND FLOOR TILE

By D. L. Granger—The Detroit Marble Co.

Marble wall and floor tile—thin units of genuine quarried marble—is now available. This tile is a product of the largest marble producer in the United States. The production is revolutionary in the industry since it has never before been possible to produce thin tile, in quantity, at competitive prices.

It has been over twenty years since the first work began on the development of a thin marble tile. Economical methods of cutting, finishing, packaging, shipping and setting have been perfected to the point that this luxuriously beautiful and eminently practical material is now competitively priced and placed within the reach of a large percentage of budget-minded constructions — schools, hospitals, churches, public buildings, small commercial buildings and homes.

Wainscoting, full walls, floors, column facings, fireplaces, counter tops—these are just a few of the areas where thin marble tiles may be specified, at a very slight increase in cost over less permanent materials.

Thin marble tile are stocked in a wide variety of colors and patterns. Nineteen varieties presently make up the line and among these are such kinds as Vermont Florentine Gray—light gray with charcoal veining; Vermont Cipolin Pastel Green; Vermont Verde Antique—a dark green with some white veining; Vermont Danby Cloud White—a pure white with delicate beige and gray overshadowing; Trieste Buff Grey—a taupe shade; Italian Pearl Beige; Belgian Charcoal Gray; and Italian Travertine.

Marble tile are fabricated ½" thick, in three sizes: 8" x 8" x 12", and 12" x 12", weighing seven pounds per square foot. The sizes offered are true modular sizes (3/32" less, each dimension) to allow for grouting.

Marble tile are furnished with a polished and satin finish, with either cushion or square edges. The tile can also be supplied with either finished, plain or bullnose edges with the usual in and out corners.

Every installation of marble tile is individual and distinguished, simply because no two pieces of marble (and so, no two pieces of marble tile) are ever exactly alike. It has an inherent beauty which is as permanent as the material itself.

The fact that marble is fireproof makes this tile additionally important for use as flooring and walls, and the fact that marble is so easy to keep shiningly clean eliminates costly maintenance thereby making it a truly economical material.

WOOD WINDOWS FOR MODERN SCHOOLS

By Donald F. Wall, Ex. Sec’y. of Michigan Architectural Woodwork Assn.

The inherent advantages found in nature’s own product—wood still rank it as the finest material for use in school construction.

Wood windows offer a fine example of the unparalleled advantages found in wood. Being an insulator rather than a conductor of heat and cold, it cuts down heating costs considerably. When planning a building, future operational costs, specifically heating, must be considered in the overall cost of the structure. In other words, economically it is best to utilize certain materials in the initial construction that will cut down future building expense.

A good wood window costs as much as a good non-wood window, but the additional heating cost caused by conductivity and air leakage make the non-wood window more costly in the long run.

One non-wood window material being found in use today will transmit almost 2000 times as much heat as will a piece of wood of the same dimension, and this means hot sun heat into the building in the summer and expensive furnace heat out of the structure in the winter.

This condition of heat loss by a non-wood window, because of low temperatures, is increased by contraction of the material allowing greater cold air infiltration around the edge of the sash.

This is of particular importance when one considers the cold drafts shed upon the students sitting next to the windows.

The savings in heating costs gained by using wood over a non-wood material windows easily exceeds the costs involved in painting the wood windows.

Actually, when it comes to maintenance of windows there is no material utilized in window construction today which is free of maintenance expense. The so-called maintenance free non-wood materials are subject to oxidation or sullation, which results in an unsightly staining. This staining results in a bleeding down the sides of the building, which is difficult to remove from the building as well as the window itself.

Therefore, wood windows have a very practical value which will reap handsome dividends in the form of savings in the maintenance budget and thereby more than compensate for such painting as may be desired at infrequent intervals of from four to five years.

It’s an established fact that wood windows are durable. The centuries-old cathedrals and manor houses of Europe, most of which contain the original wood frames and sash, offer sufficient proof.

The insulation value of wood, its durability, elasticity (which prevents sash from springing), warmth and friendly appeal, make it the best window material for schools—"ALL WAYS".
JOE E. SMAY, A.I.A.

JOE E. SMAY, professor of architecture at the University of Oklahoma, was elected president of the National Council of Architectural Registration Boards, at its 37th Annual Convention in Cleveland, July 6 and 7. He succeeds Edgar H. Berners, of Green Bay, Wis.

Others elected to serve with him are Walter F. Martens of Charleston, West Virginia, 1st Vice President; A. Reinhold Melander of Duluth, Minn., 2nd vice-president; Ralph O. Mott of Fort Smith, Arkansas, secretary; Chandler C. Cohagen, of Billings, Mont., treasurer, and the following directors: C. J. Paderewski, of San Diego, Calif.; A. Reinhold Melander, of Duluth, Minn.; L. M. Leisenring, Washington, D. C.

Since the death last year of the Council's Secretary-Treasurer, William L. Perkins, A.I.A., who passed away August 12, 1957, the convention authorized the Council's board of directors to consider moving the council offices from Chariton, Iowa to a more suitable location, possibly Washington, D. C. or Norman, Oklahoma.

The National Association of Architectural Examiners, NCARB subsidiary, elected Doyle L. Harvey of Rome, Ga., President, and Earl L. Mathes, of New Orleans, Vice President, Harvey succeeded L. D. Schmidt of Fairmont, W. Va.

The NCARB Convention was saddened by the news of the passing on July 6 of Alvin M. Strauss, of Fort Wayne, a member of the Indiana State Board of Registration for Architects.

A memorial service was held for the Council's Secretary-Treasurer, William L. Perkins, A.I.A., who passed away August 12, 1957.

Memorial for William L. Perkins
By Chandler C. Cohagen, F.A.I.A.

It is a privilege to be able to speak in behalf of a friend. A privilege because friendship, like liberty, can neither be bought nor sold, and even more, like liberty, is often underestimated and insufficiently appreciated, until it is beyond our reach. Encomiums seem, at times, to be a medium of barter or exchange, but when used sincerely, become of inestimable value. It is in such a spirit that we speak today.

The partition which separates ability from mediocrity, and brilliance from the commonplace, is often quite thin and sometimes transparent. The border may be vignetted from one side to the other until the true division is no longer discernible. But the distinction of the dedicated, consecrated man whom one is content to follow is of far more substantial proportions. We are here to speak of one who lived on the highest plane.

Today, we pay our tribute and honor to William L. Perkins. Statistics, while important, are not the most important things which may be said of a great man. We will give a few to set the background for the true picture.

Paul W. Drake, Summit, New Jersey
C. J. Paderewski, San Diego, Calif.

EXECUTIVE COMMITTEE:
President, Secretary, Treasurer, 1st V-Pres., (altern.)

COUNCIL BOARD OF REVIEW:
Ralph E. Winslow, Larchmont, N. Y.
A. Reinhold Melander, Duluth, Minn.
A. J. Brenner, Phoenix, Arizona

The Library is rated as the best Masonic library in the world. While most of his buildings were erected in northern Missouri and southern Iowa, his chief edifices are built in the hearts and minds of the architects of America, from border to border and from coast to coast. His name will be remembered by them.
New President
Of The A.I.A.

JOHN NOBLE RICHARDS, F.A.I.A., of Toledo, Ohio, was elected President of the American Institute of Architects at its 90th Annual Convention in Cleveland, Ohio, July 10. He succeeds Leon Chatelain, Jr., F.A.I.A., of Washington, D.C., who had served two terms.

Phillip Will, Jr., F.A.I.A., of Chicago, was elected First Vice President, and Henry L. Wright, F.A.I.A., of Los Angeles, 2nd Vice President. Edward L. Wilson, of Fort Worth, Texas was re-elected Secretary, and Rayond S. Kastendieck, of Gary, Ind., was re-elected treasurer.

Electsed Regional Directors were Trevor W. Rogers, of Buffalo, New York District; Alonzo J. Harriman, of Auburn, Me., New England; Frederick H. Porter, Sr., of Cheyenne, Wyoming, Western Mountain, and Harold T. Spitzmogel, of Sioux Falls, S. Dak., North Central.

Richards was born in Warren, Ohio, April 23, 1904. In 1910 his family moved to Toledo, where he received his early education. He attended the University of Pennsylvania, and there he was awarded the Cret Medal, for excellence in design, in 1928. Upon graduation in 1930, he received the Stewartson Traveling Scholarship, enabling him to Travel and study in Europe.

After employment by leading architects in Philadelphia, he returned to Toledo in 1932 as designer for Mills, Rhimes, Bellman & Nordhoff, where he became a partner in 1954.

The new A.I.A. President has served as President of the Toledo Junior Chamber of Commerce, and in 1940 received its Achievement Award. He was President of the Toledo Chapter, A.I.A.; The Institute's Great Lakes Regional Director, Second Vice President and First Vice President. He served the national body on many important committees.

Interested in public service, he was a charter member of the Toledo Building Congress, a member of the Maumee Board of Education, a Director of the Toledo Regional Planning Association, President of the Downtown Exchange Club of Toledo, District Governor of the National Exchange Club, and member of the Toledo Zoological Society's Board.

For twelve years he was a member of the Board of Directors of the Toledo Repertoire Theatre, and he belongs to the Tile Club and Architectural League of New York.

His other affiliations: 32nd Degree Mason, Zenobia Shrine, Inverness Country Club, in Toledo, and St. Paul's Episcopal Church, in Maumee, Ohio.

Mr. Richards is married to the former Norma Hayes, of Napoleon, Ohio. The family home is at 3921 Brookside Road, Toledo.

JOHN N. RICHARDS, F.A.I.A.
HOSPITALITY OF THE HOST CHAPTER at the Institute's recent Convention in Cleveland has not been exceeded anywhere. To Anthony S. Ciresi, F.A.I.A. and his Committee, our sincere thanks.

It was our good fortune to visit in the home of Mr. and Mrs. R. Franklin Outcalt. He is President of the Cleveland Chapter, A.I.A., and a member of Ohio's State Board of Examiners of Architects. He has a wonderful home and practice in Shaker Heights — has good reading matter on his living room table too.

Also in Shaker Heights — there must be more fine homes there than anywhere else — we enjoyed a visit with Mr. and Mrs. Byron Dalton. Mr. Dalton began his career with Abraham Garfield son of the U.S. President. For 29 years he was with the prominent Cleveland firm of architects, Walker & Weeks. Since 1941 he has practiced under his own name. The present large firm of Dalton-Dalton Associates, Architects and Engineers, is a most distinguished one.

The Convention reiterated the Institute's stand against extension of the East Front of the Nation's Capitol. James Gambaro, F.A.I.A., Chairman of the Resolutions Committee, presented a number of other resolutions, most of which were referred to the Board.

Dr. Margaret Mead said "good architecture lasts forever but people soon look out of date, so the journals publish pictures of buildings without people."

Retiring President Chatelain receiving the new President's Medal from Ralph Walker, its designer

John Welborn Root receiving The Institute's 1958 Gold Medal from President Chatelain

A lectern was presented to the Institute, "guaranteed to be impervious to hot air and dry rot."

The famous Scrapple Breakfast, long an institution at A.I.A. Conventions, was for the first time listed on the program. Edwin B. Morris, A.I.A. is President of The Tile Manufacturers' Association, Inc. To make it easy for the conventioners, it was held in the Cleveland Room, Cleveland Hotel, Cleveland, Ohio.

At its Sixth Annual Convocation the College of Fellows reelected Roy F. Larson, of Philadelphia, as Chancellor, and Charles F. Collarins, of Cincinnati, Secretary. John F. Staub, of Houston, Texas, was elected Vice Chancellor, and Richard Koch, of New Orleans, Secretary. Present were Ben J. Lubschez, of Voorhees, Walker, Smith & Smith, who joined The Institute in 1911, became a Fellow in 1914, and William Stanley Parker, of Boston — A.I.A., 1906; F.A.I.A., 1916. Miss Marion Manley, of Coral Gables, Fla., was the only lady Fellow present. She had just received a citation from the Chapter Affairs Committee, of which Paul Hunter is Chairman.

Elected Fellows at the Convention were:


WASHINGTON, D. C. — Angelo Robert Clas.

GEORGIA — Preston Standins Stevens, Atlanta.

KANSAS — Theodore Reed Griest, Topeka.


MICHIGAN — Louis Clifton Kingscott, Kalamazoo.

NEW YORK — Marcel Lajas Breuer, Robert Carson, Gordon Bunshaft, Edward Dunrell Stone, all of New York City; Donald Q. Faragher, Rochester.

OHIO — Carl Frederick Guenther, Cleveland.

TEXAS — George Leighton Dahl, Dallas; Llewellyn William Pitts, Beaumont.

UTAH — George Cannon Young, Salt Lake City.

Clair W. Ditchy and Talmage C. Hughes, both of Detroit and Henry Wright of Los Angeles, Calif. were jurors for selecting the most outstanding displays of products.


Ninety-two products were on display throughout the week.
Sidelights

Carl F. Bauersfeld, on how much is a billion dollars? "If one began business in the year 1 A.D. with a capital of $1,000,000,000, and managed his business so poorly that he lost $1,000 each day, he would still have enough capital left to continue for almost 800 years."

Marcellus E. Wright, shopping with Mrs. Wright, wore no hat. While standing by, one after another asked, "Can you direct me to shirts?" Where are shorts? etc., until Mrs. Wright said, "we'd better go, you look too much like a floor-walker."

Could have been intentional, as it was rumored that Marcellus tried to get Higbee's fashion show to put signs on their models, "Not for Sale."

And, speaking of hats: a couple came down to the lobby to join another couple for lunch. When it was discovered the lady in the lobby was wearing a hat, the other immediately went back to get her bonnet; whereupon her husband remarked, "I suppose I should call up Eddie and ask if he's going to wear a hat."

Tally McKee gathering material for her Tally Sheet in Charette.

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Office of Mr. Squires and secretary Isabelle Johnston at the Superior Products plant, showing space-saving installation of electric heaters in the rear wall.

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says Mr. George L. Squires, office manager, Superior Products Company, Detroit

When remodeling time came for the Superior Products Company, management decided to look for a better way to heat office areas. In the past, conventional heating had failed to provide even temperatures.

Electric heating proved to be the answer. According to Mr. Squires, "What we like most about our electric heaters is the even, controlled heat we get. And, after two years of operation, there has been no maintenance whatsoever!" Fifteen units were placed in five offices, with additional units in the Taylor Township office. Installation was simple and rapid, and operation costs have been consistently low.

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