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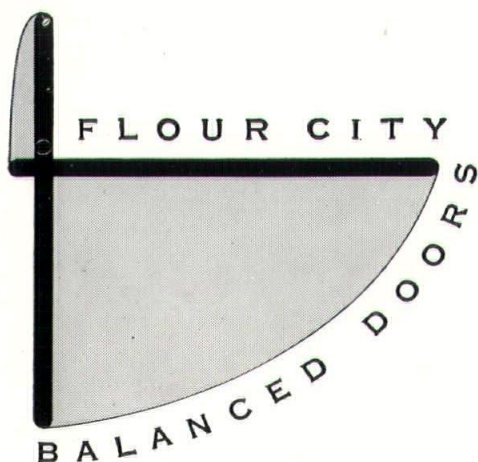
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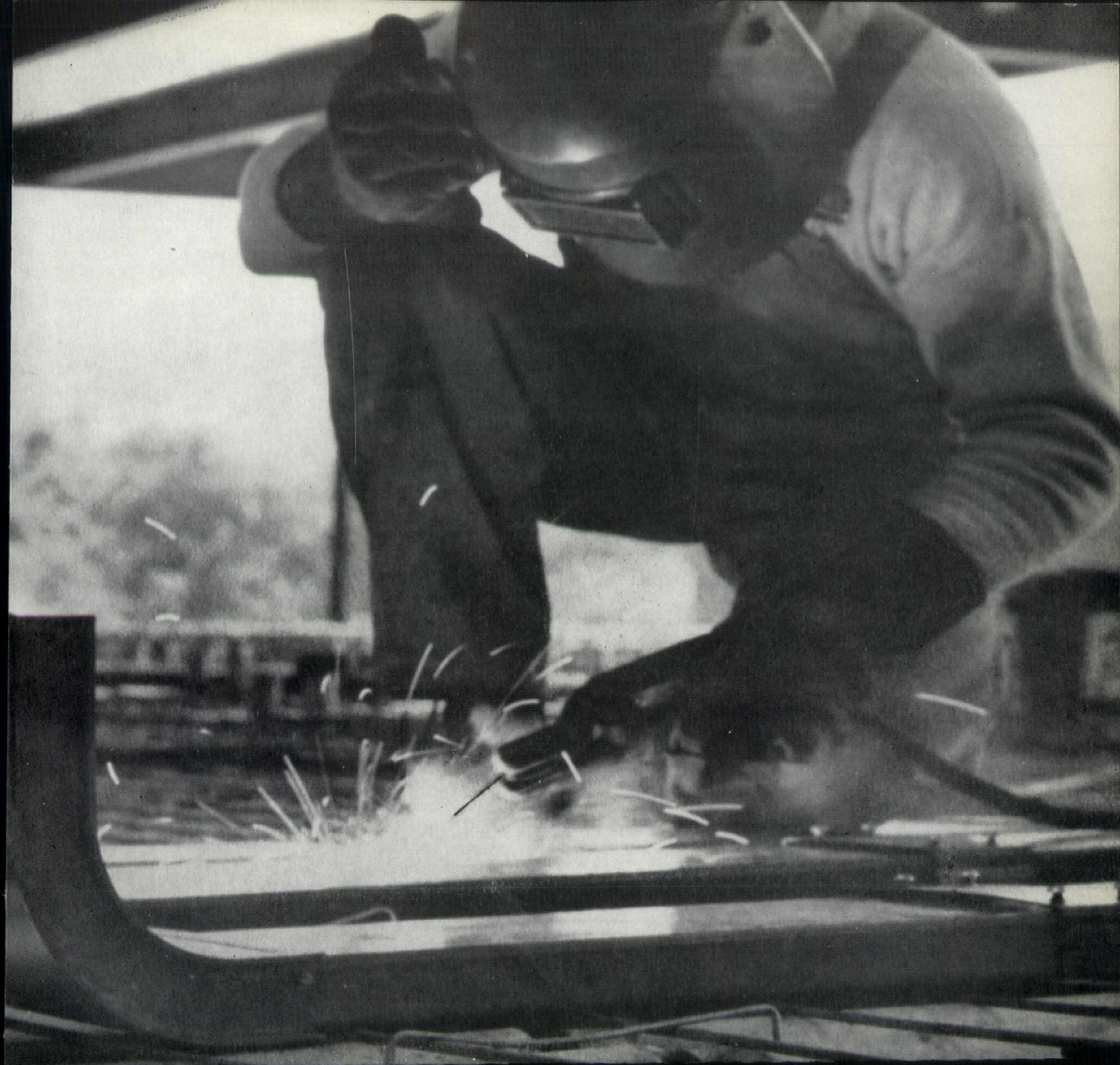
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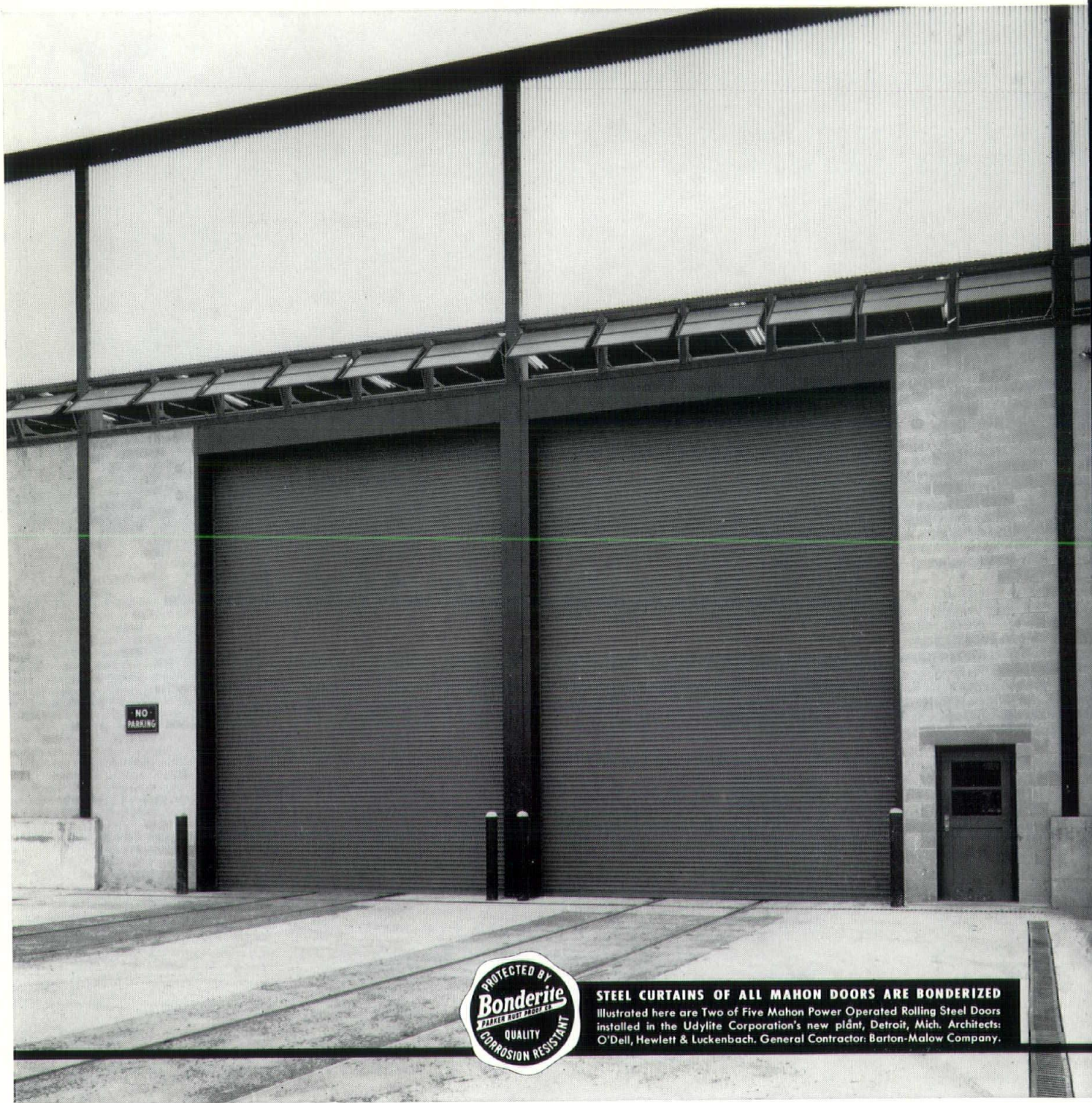


**Quicker Methods in Electrical Installations
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Mahon ROLLING DOOR



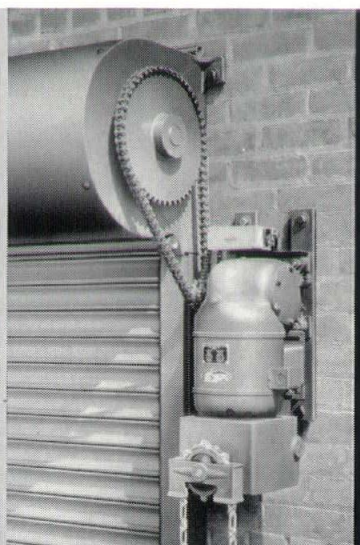
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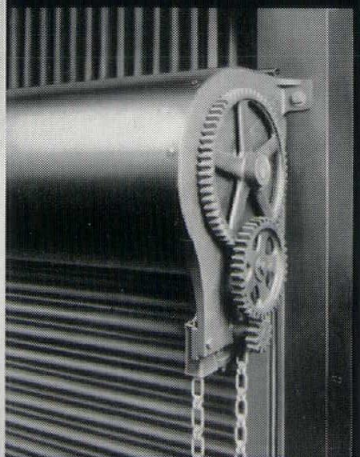
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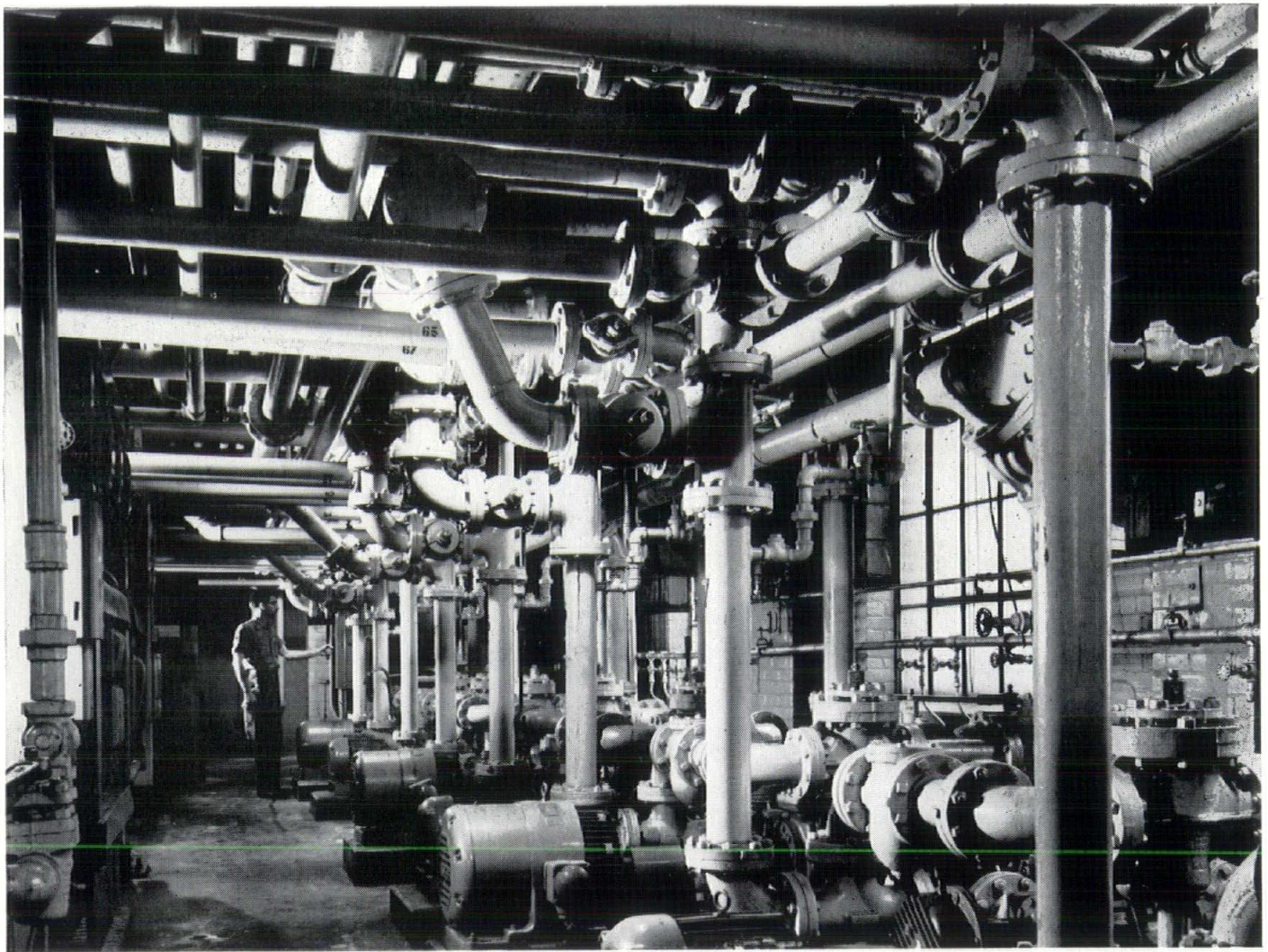
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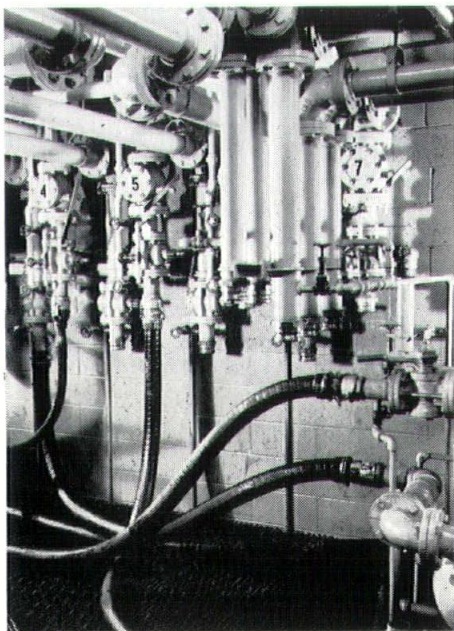
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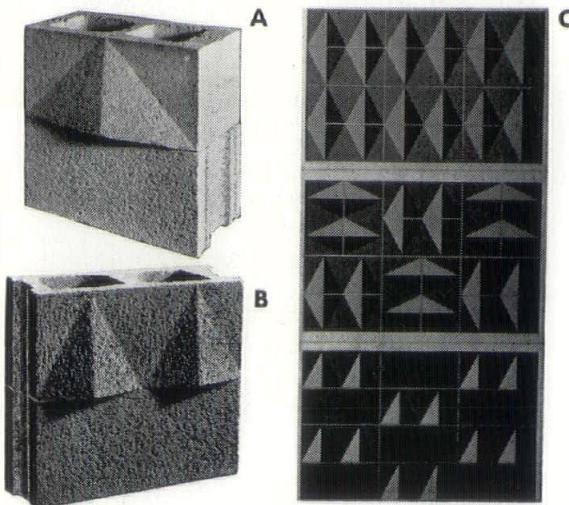
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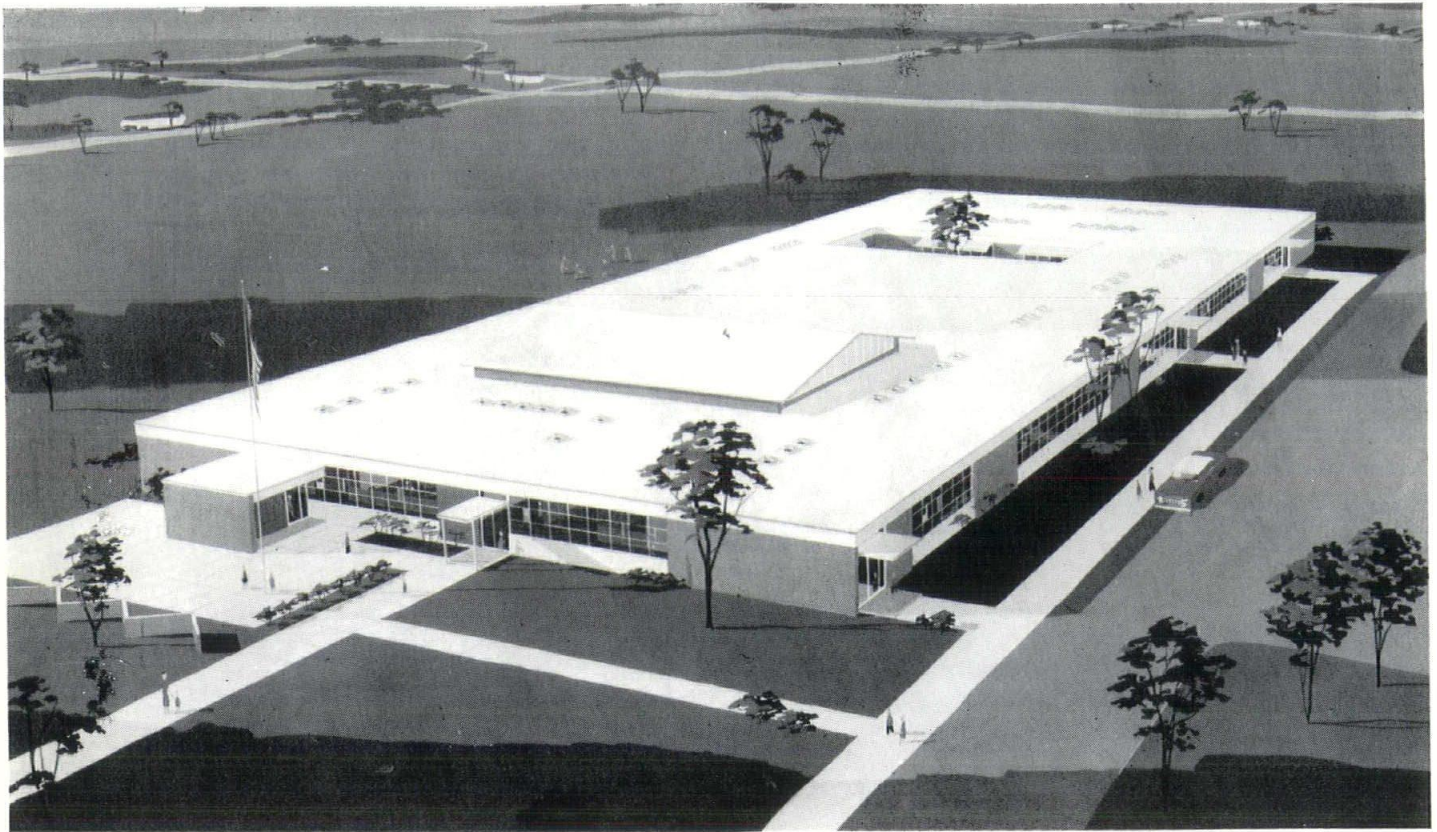
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A Basic HI-LITE Unit, Mark I can be used as stretcher or left and right corners

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C A few of the many design possibilities with HI-LITE Units for architectural wall decorations, both exterior and interior





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rich color with cast-in Italian mosaic glass surface. And, on the Ewell School, ornamental fascia panels of precast Polyfoam concrete included a decorative design worked with Italian glass mosaic tile.

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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

Architecture 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.

II. The Practice of Architecture and Engineering:

An architect or engineer may ethically accept commissions for projects embracing both architectural and engineering work, provided he is competent to do the type of work involved, or provided he will employ other registered architects or engineers who are competent in those phases of the project in which he lacks proficiency.

The client's interests normally are served best when the principal retained is proficient in the predominant work involved in the project. Recognition for their responsibility shall be granted to the architects or engineers executing separate phases of the project as associates of the principal.

III. Mutual Relations:

Architects and engineers shall undertake to design only those phases of a

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FEBRUARY—Frederick E. Wigen & Associates

MARCH—45th Annual M.S.A. Convention

APRIL—Jahr - Anderson - Machida Associates

MAY—Magnuson & Sumner

JUNE—Annual M.S.A. Roster (Alphabetical)

JULY—Mackenzie, Knuth & Klein, Architects, Inc.

AUGUST—16th Annual Mackinac Mid-summer Conference

Monthly Bulletin, Michigan Society of Architects, Volume 32, No. 8

including National

Architect

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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 co-operation 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 interest themselves 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.

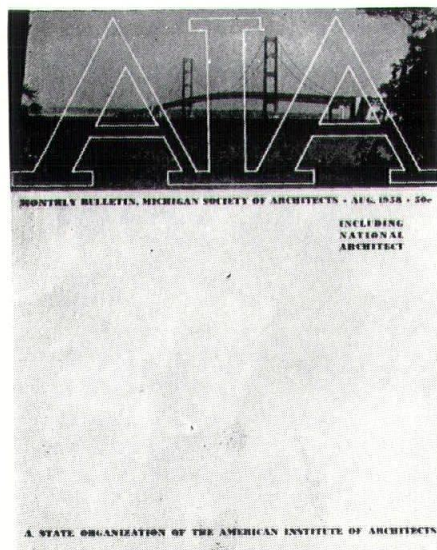
V. Relations With Manufacturers:

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 interest. By its very nature the rendering of professional services by the Design Professions must be on a highly ethical and professional basis.

THE COVER: Outlined AIA on new Mackinac Bridge crossing Straits of Mackinac, joining Upper and Lower Peninsulas of Michigan. Photo courtesy Knight D. McKesson, Michigan Tourist Council.



THE INDOOR OUTDOOR GROUP BY HERMAN MILLER

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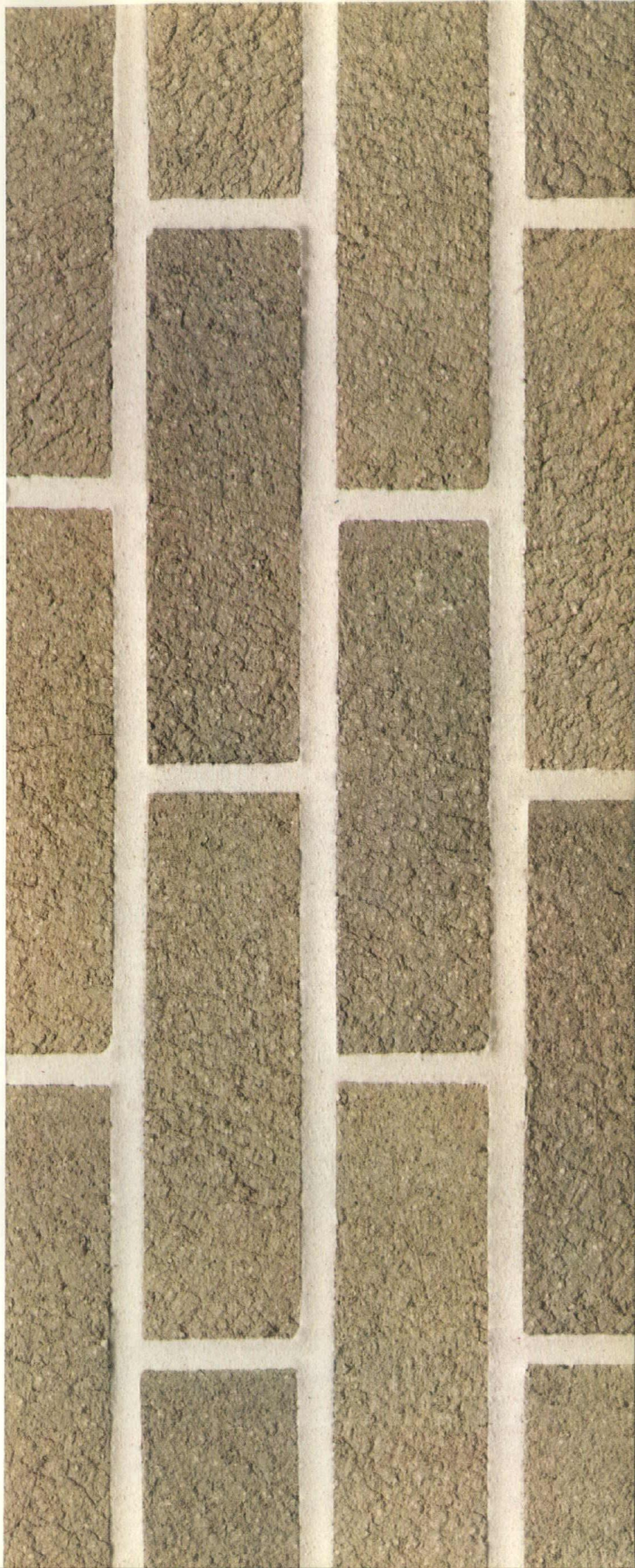
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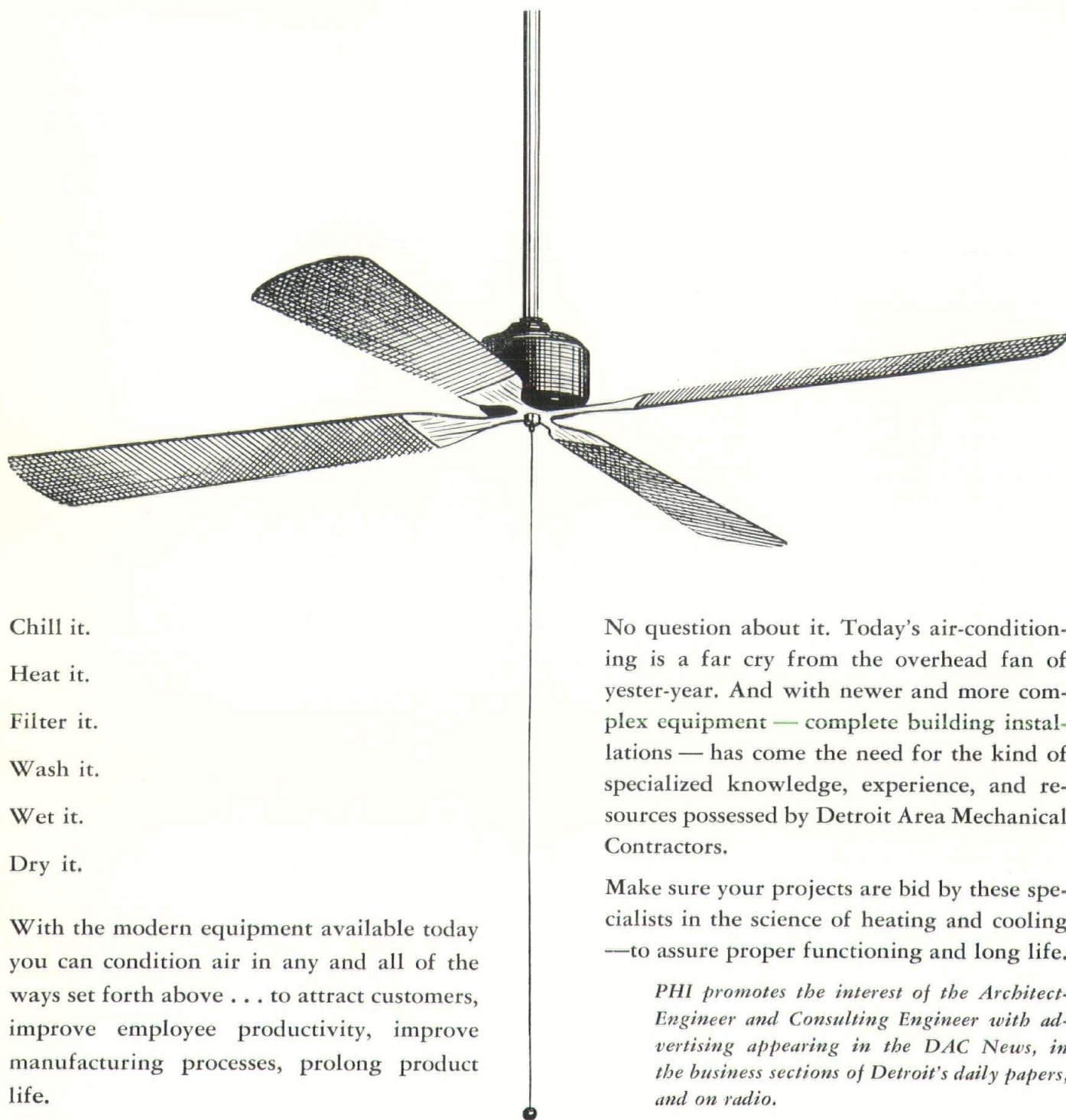
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Architect: Overend & Boucher, Wichita



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West End Parking Garage, New York City
Consulting Engineer: John J. Dwyer New York City

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Municipal Parking Garage #10, Chicago, Ill.
Architect: McClurg, Shoemaker and McClurg, Chicago



GRAND HOTEL

Program

THURSDAY, AUGUST 7, 1958

- 9:00 A.M. to 6:00 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. Wigen, 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

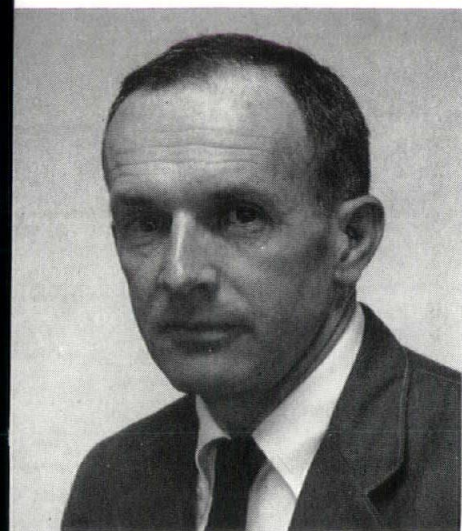
A Grand Time at The Grand Hotel

Plans for the 15th MSA Annual Mid-Summer Conference at the Grand Hotel on 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



WALTER B. SANDERS

"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

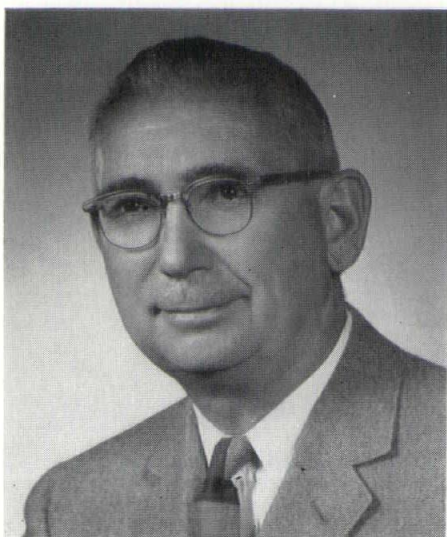


HARRIS D. DEAN

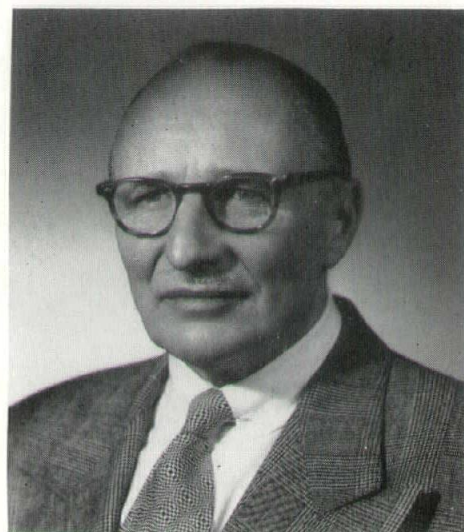
luncheons will follow in the Terrace Room.

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.



SAMUEL C. ALLEN

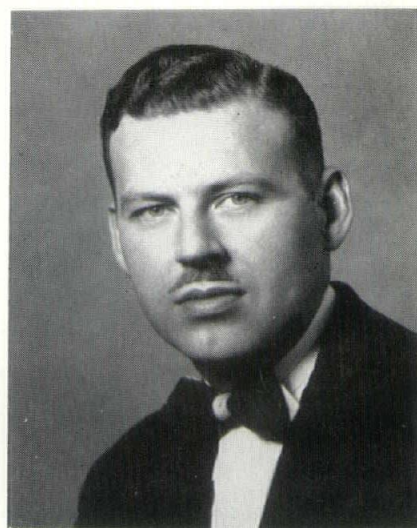


LEE SMITS

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

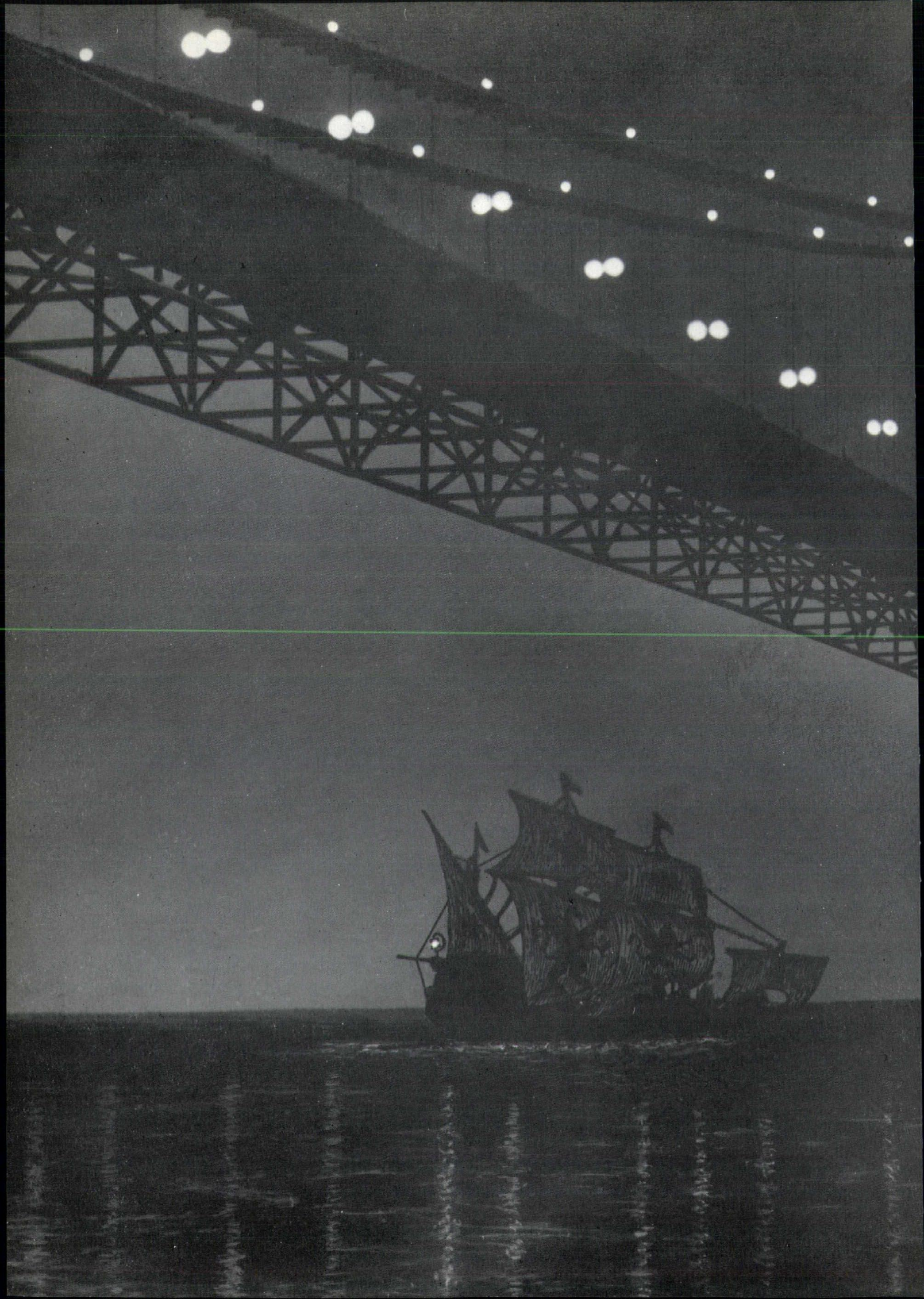


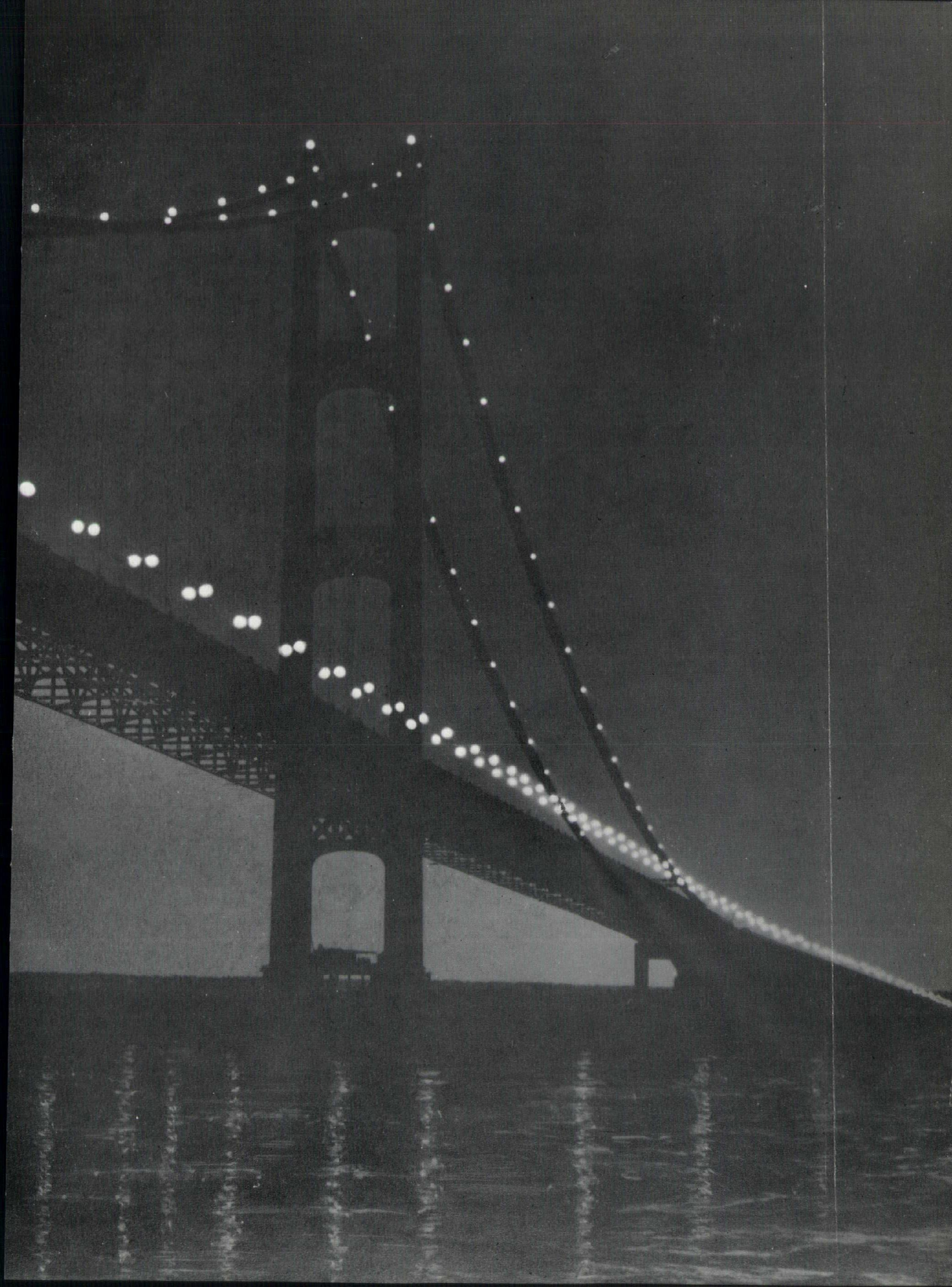
CHARLES V. OPDYKE

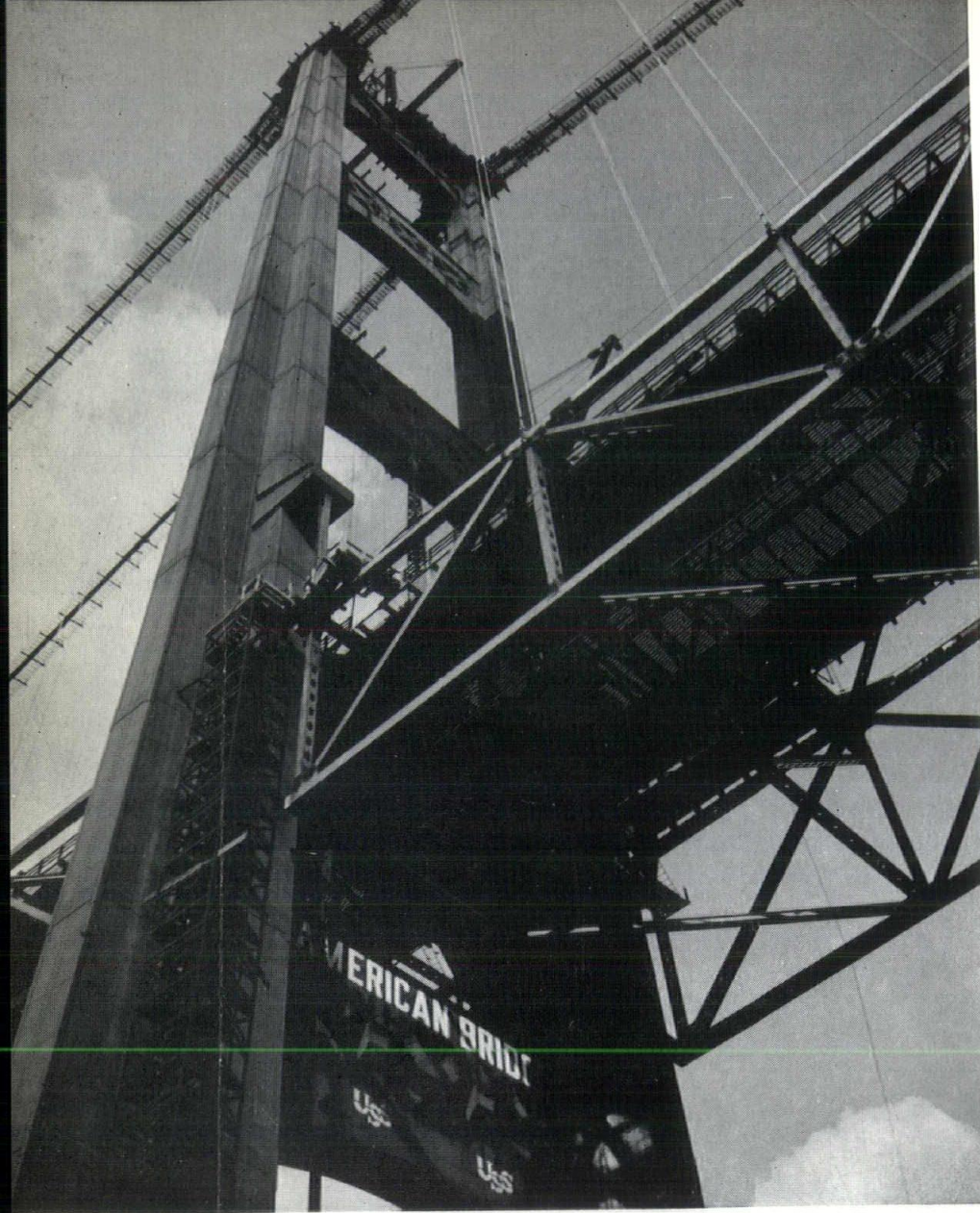
the Michigan Consolidated Gas Co. His topic will be: "Police Beat."

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.

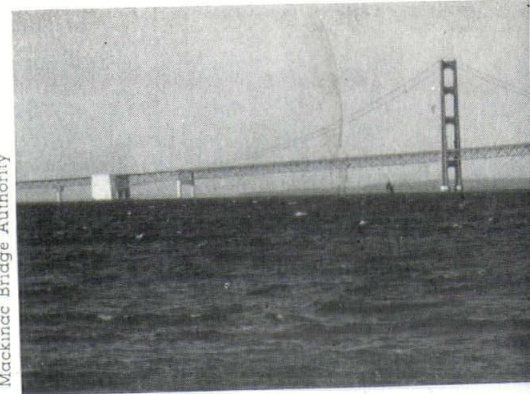






NORTH TOWER OF MACKINAC BRIDGE

American Bridge Division, U. S. Steel Corporation



Mackinac Bridge Authority

Mackinac Bridge from McGulpin's Point, showing historic

THE NEW Seventh Man -

By GUSTAVUS ARNOLD

WHEN THE BEAUTIFUL new green and ivory-towered, one hundred million dollar Mackinac Bridge was dedicated on June 23, 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-time 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)

OVERLEAF:

ARTIST-PHOTOGRAPHER DE WITT BUSH'S HEROIC CONCEPTION OF THE NEW MACKINAC BRIDGE AT NIGHT WITH LA SALLE'S "GRIFFON"—FIRST SAILING SHIP TO CROSS THE STRAITS OF MACKINAC IN 1679—IN FULL SAIL PASSING UNDER THE GREAT SPAN OF THE SEVENTH MAN-MADE WONDER OF THE MODERN WORLD, AS SUGGESTED BY THE AUTHOR.

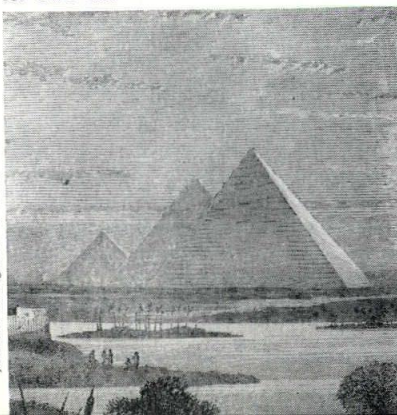


ARCHITECT OF ANTIQUITY

THE SEVEN MAN-MADE WONDERS OF THE ANCIENT WORLD

GREAT PYRAMID OF CHEOPS

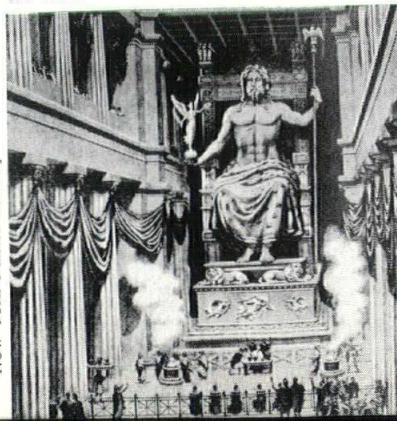
Largest, most famous of Egyptian Pyramids on West bank of Nile near Cairo, Egypt. Built 4,700 B.C. as tomb for King Cheops. Architect Imhotep influenced conception. Took 100,000 slaves 25 years to build. 480 feet high, 755 feet square at base. Built of 2,300,000 blocks of solid stone averaging 2½ tons a piece. Covered with casing of smooth white limestone laid without mortar, joints of extreme fineness one-ten-thousandth-inch thick—removed by conquering Arabs in 650 A.D. for own use



James Sangster & Co., London

STATUE OF ZEUS

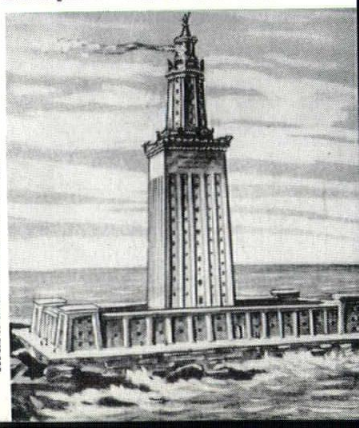
Finest statue of antiquity at Olympia in Altis, western Greece. Executed 433 B.C. by Pheidias, greatest sculptor of ancient Greece. Considered his masterpiece. Statue seated in majestic Homeric grandeur 40 ft. high; ivory body; gold robe. Ivory preserved from splitting by olive oil. Expressed meaning of divinity of father of gods, of peaceful order, best religious thought of time. Olympian festival ceased 393 A.D. Statue carried off to Constantinople and perished in great fire there in 476 A.D.



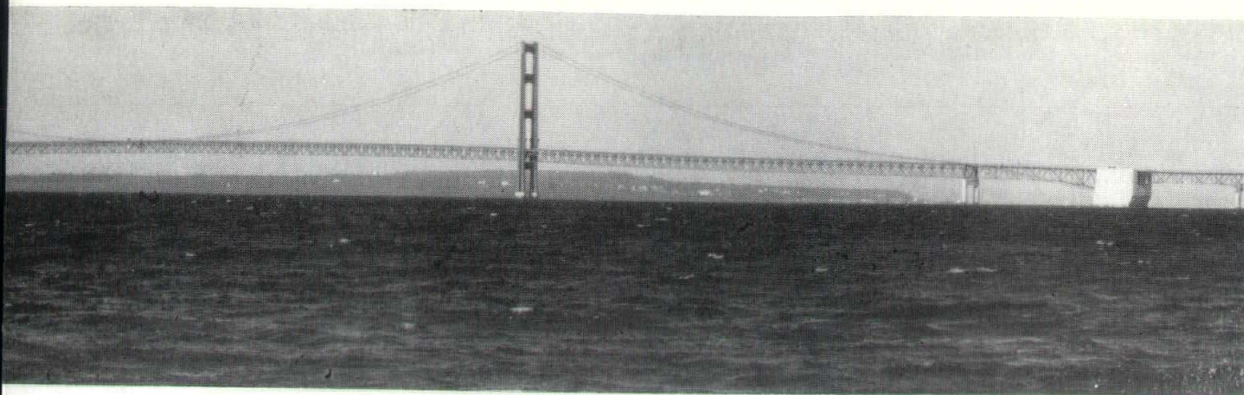
New York Public Library

PHAROS Lighthouse

Largest, tallest beacon of ancient world at mouth of Nile seaport, Alexandria, Egypt. Commenced by Ptolemy I; finished by Ptolemy II in 280 B.C. Architect Sostratus. Built entirely of marble in shape of modern skyscraper. Base block statue 400 ft. high filled with military racks and offices topped by 100 ft. to lighthouse beacon with huge reflecting mirror. Ascent made by broad ramp donkey carrying fuel supply for beacon fires visible 40 miles. Stood 1600 years. Earthquake ruined 1375 A.D.



Illustrated London News

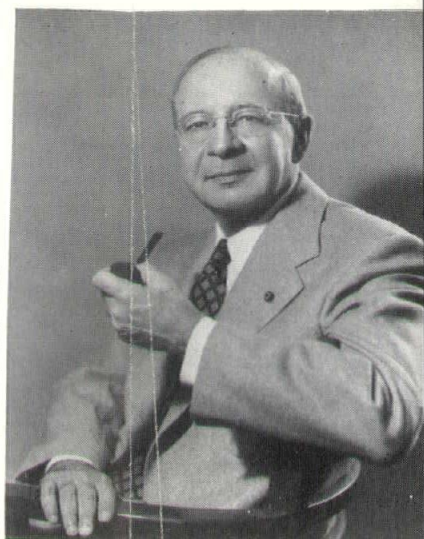


Mackinac Is. in background. Largest white spot on island is world-famous Grand Hotel, premier summer hostelry on N. American continent

MACKINAC BRIDGE

Made Wonder of the Modern World

Elckstone Studios, New York



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.

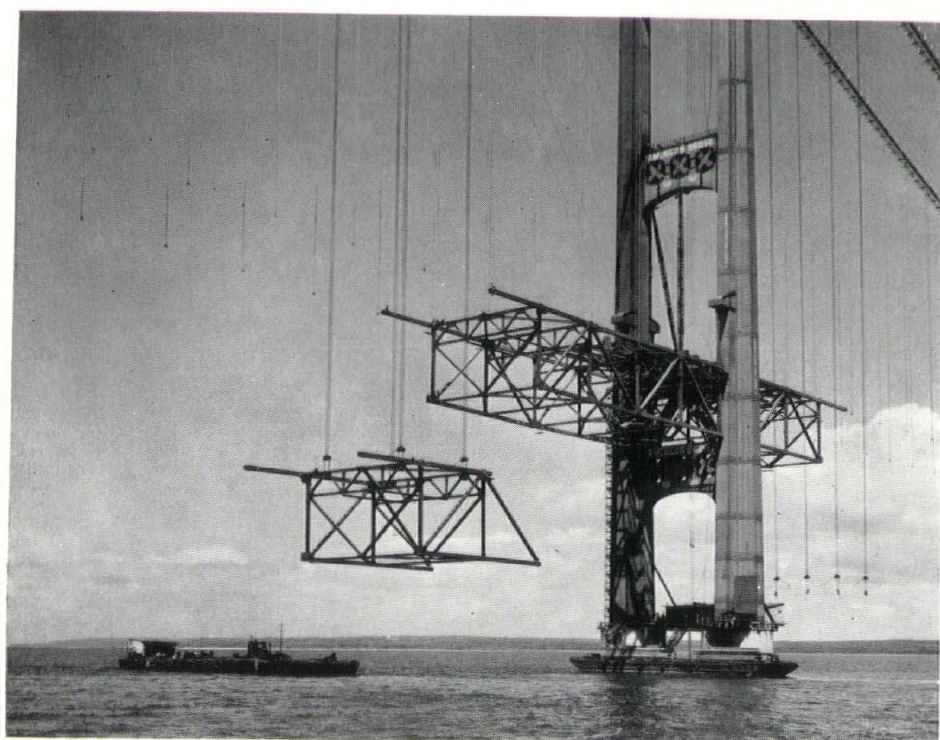
Since 1920 he has designed or been consultant on over 400 bridges on five continents and has developed major improvements in suspension bridge design in particular.

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 Sciences. He has been awarded French Legion of Honor, Grand Prix Humanitaire of Belgium, Order Du 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: Florinopolis Bridge in Brazil, Constitutional Bridge in Puerto Rico, Baghdad Bridge over Tigris in Iraq. Now engaged on plans for intercontinental bridge over Bosphorus.

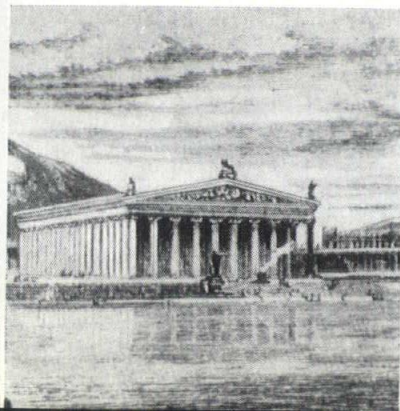
When Columbia University awarded him its Medal of Excellence in 1947 the citation described him as: "Architect of bridges, whose standard for the engineer—always to place service before profit, the honor and standing of the profession before personal advantage and the public welfare above all other considerations—has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



LIFTING STIFFENING TRUSS AT NORTH TOWER

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 as many kings. Great quantities of gold shone from roof, walls. Reached from all sides by sweeping marble steps. Night Alexander Great's birth fired by Erostratus seeking immortality. Rebuilt. Destroyed by Goths 256 A.D.



Wonders of The Past

COLOSSUS OF RHODES

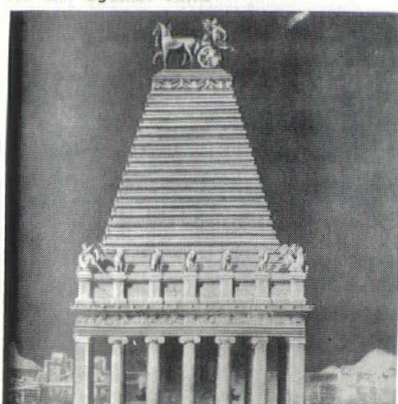
Largest statue lighthouse ever built. Stood at Ile of Rhodes, harbor entrance. Built from defeated Macedonians' bronze war machines in victory to Rhodian sun-god, Helios. Designed by Chares of Lindos, completed by Laches 280 B.C. after 12 yrs. Statue 110 ft.; pedestal 50 ft. high. Stone blocks filled feet & legs, iron rod framework braced body. Spiral staircase inside from feet to eyes where beacon night fires burned. After 60 yrs. earthquake toppled it. Arabs 672 A.D. sold 300 tons to junk dealer



Grolier Society

TOMB OF KING MAUSOLUS

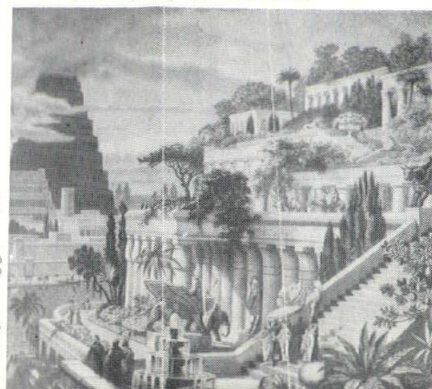
Most magnificent memorial Greek genius could fashion. In Halicarnassus, now Budrum, Asia Minor. Designed by Satyros and Pythois, 353 B.C., for Queen Artemesia, widow King of Caria, satrap of Persia. Parian marble vault 65 ft., base for 23½ ft. Ionic colonnade surmounted by step pyramid; on apex stood 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



Joseph Boggs Beale

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 rising in terraces constructed with stone pillars covered with stones, reeds & bitumen, cemented bricks, with sheet lead overlay to prevent moisture seepage & covered by layer of earth. Summit 300 ft. Reservoir at top filled by water pumped from Euphrates fed gardens & fountains. Destroyed by Cyrus 539 B.C.



THE SEVEN MAN-MADE WONDERS OF THE MEDIEVAL WORLD



MEDIEVAL ARCHITECT SYMBOL

(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-

brated 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, of 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.

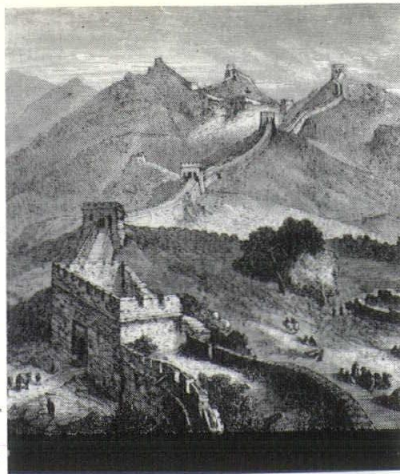
At night on historic Mackinac Island from the gay galleried veranda of the world-famous Grand Hotel—whose owner is that renowned innkeeper and gentleman extraordinary of impeccable taste and proper decorum, Mr. W. Stewart Woodfill—the matchless spectacle of the Seventh man-made Wonder of the Modern World 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

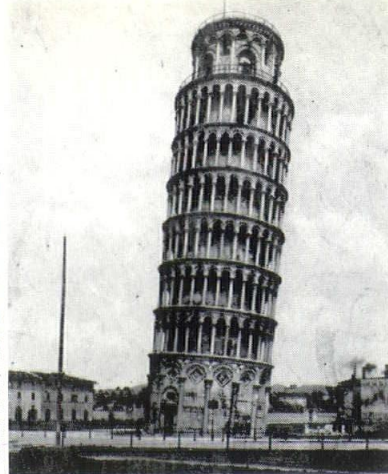
History of the World—Ridpath



GREAT WALL OF CHINA

Longest wall in world traversing northern border of China, keep out Tartars. Built by Chin Shih Huang Ti, 1st Emperor Tsin dynasty, 220 B.C. Took 18 yrs., every 3rd man in China. Length incl. loops 1900 mi. (Topeka, Ka. to N. Y. City). Follows mountain ridges, some 4,000 ft. Blt. earth, bricks, stone slabs. Height 20 ft. incl. 5 ft. parapet; base 25 ft. thick; top 15 ft. with 12 ft. paved road. Watch-towers every 200 yds., 45 ft. high, base 40 ft. sq., top 30 ft. Mings 1400 A.D. improved. Manchus 1644 A.D. no need

Fine Arts, Detroit Public Library



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. Half that thickness at top. Contains 5 large & 2 small bells in belfry. Bells were rung when heads were cut off during Middle Ages

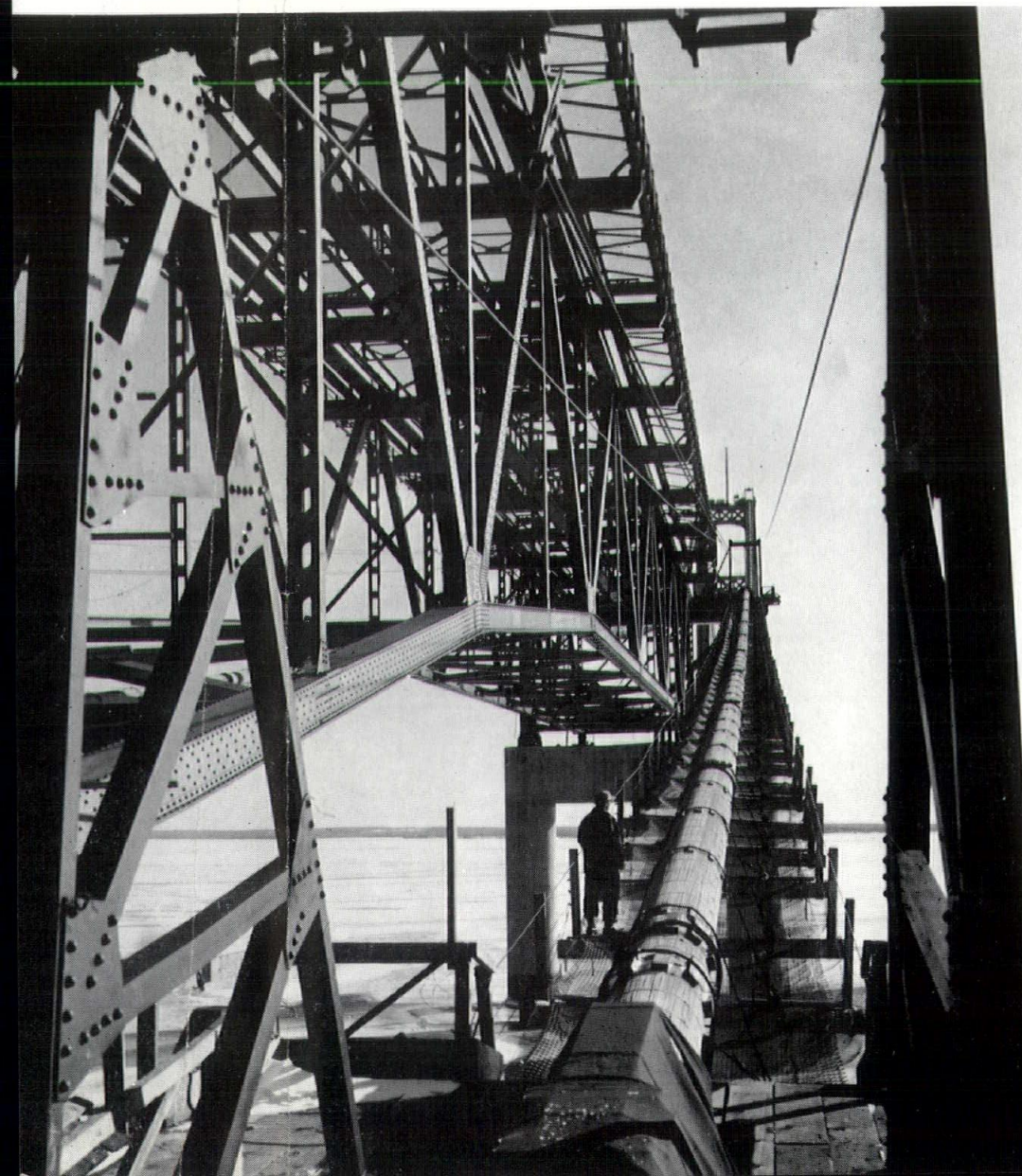
Bernard F. Rogers, Jr.



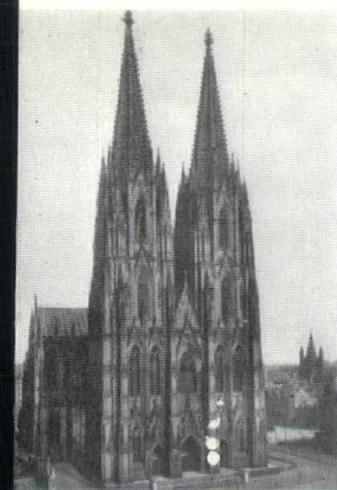
MOSQUE OF SANTA SOPHIA

Mother of Churches, Temple of Divine Wisdom in Constantinople, now Istanbul, Turkey. Begun by Emperor Constantine 324 A.D. Destroyed 532 A.D. Rebuilt by Emperor Justinian. Form of Greek Cross 24 ft. sq. Dome 175 ft. high. Interior richly decorated by marble & mosaic. Gallery supported by marble pillars brought from ancient world temples. Required 10,000 builders. Cost \$65,000,000. Dedicated Christmas Eve 548 A.D. Christian church for 916 yrs. Taken by Turks in 1453 from Constantine XIII. Now Museum.

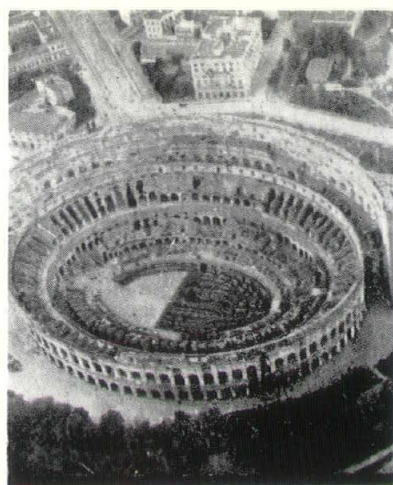
VIEW ALONG WEST CABLE FROM PIER 22



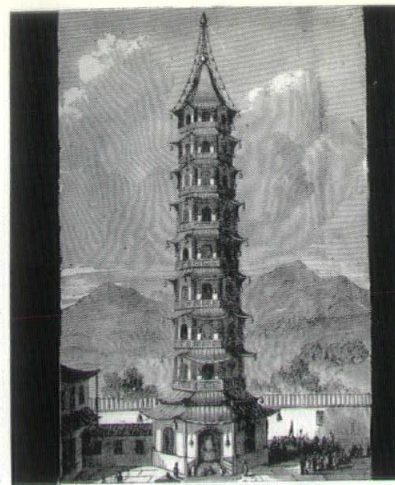
Mackinac Bridge Authority—Herman D. Ellis



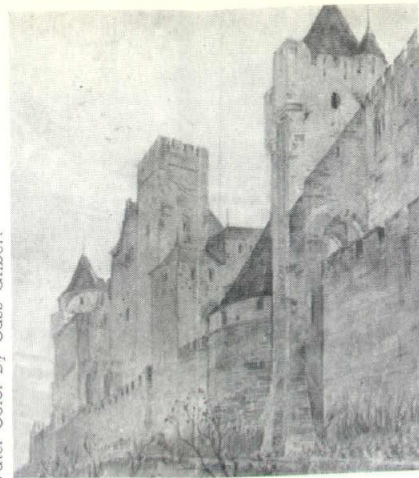
Fine Arts, Detroit Public Library



Jones Brothers Co., Cincinnati



Water Color By Cass Gilbert



CARCASSONNE

Most perfect example of defense works of Medieval Europe. Great walled city of Carcassonne crowns ridge above Aude River in southern France. Visigoths' capital 300 yrs.; Saracens held it 50. In 1285 A.D. ringed with 2 sets of walls 1 inside & above other, 50 peaked-topped towers. Its Counts fought French kings for possession. Fortress unconquerable after Black Prince failed in 1355 A.D. Fortification restored 1849-79 A.D. by Fr. Arch. Eugene Emmanuel Viollet-le-Duc

COLOGNE CATHEDRAL

noblest specimens of Gothic architecture in Europe. Begun by Archbishop Arnold during reign of Charlemagne in 800. Burned in 1248. New foundations begun 15, 1248. Structure 500 ft. long, wide. Twin towers 522 ft. high, consecrated 1322 A.D. Took 610 yrs. to complete the edifice on October 15, 1880 of \$20,000,000. It contains the bones of the holy kings, which Frederic, the Emperor, took from Milan in 1162 A.D. retained as precious relics today

THE COLOSSEUM

Flavian amphitheater most famous in 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

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 82 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.

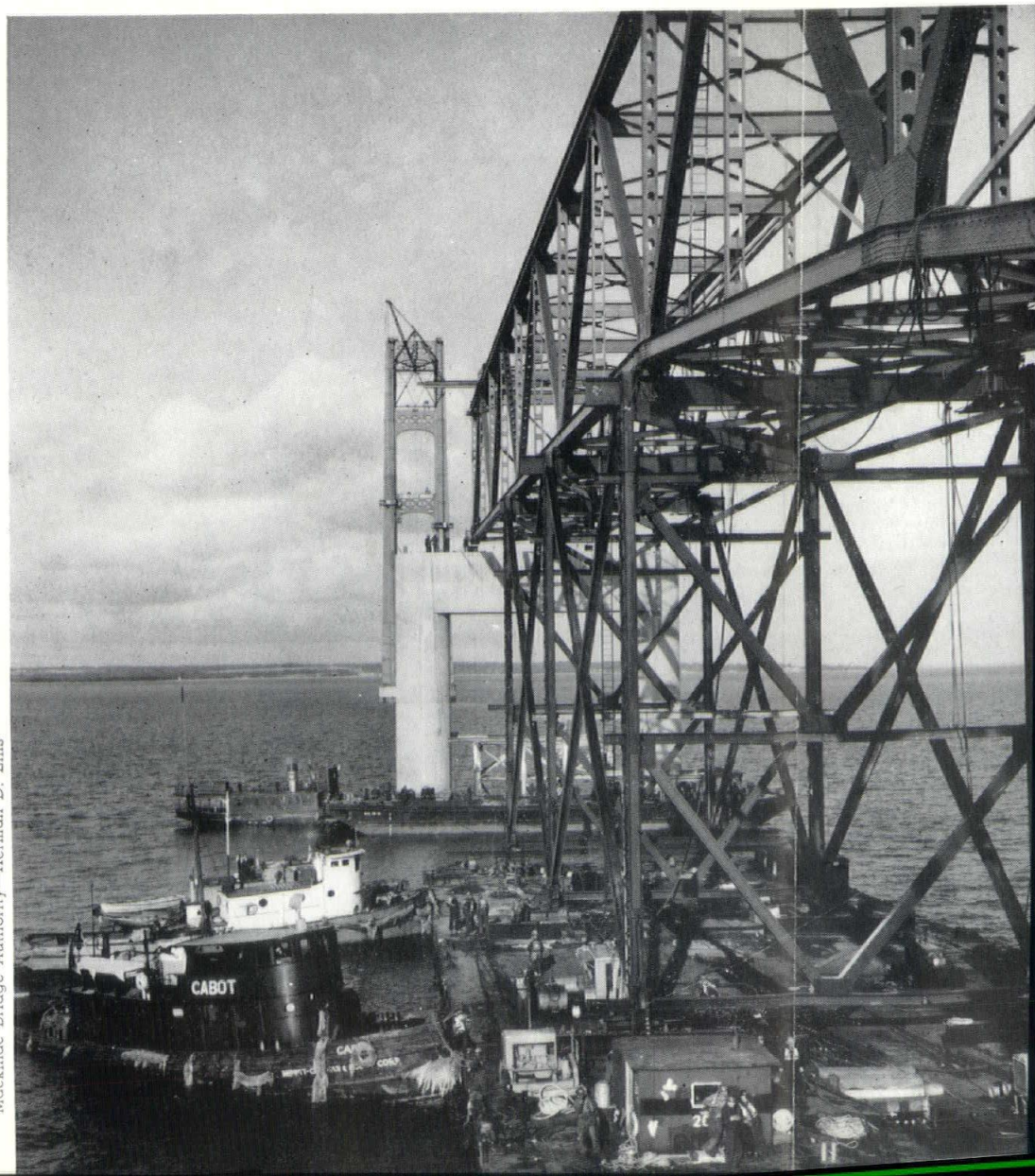
The ivory painted towers extend to a height of 552 feet above low water. They are of the conventional flexible type of cellular construction with fixed bases. The two shafts of each tower are connected at four levels by horizontal struts of open-truss construction. The height of the towers above water 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 340 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



Mackinac Bridge Authority—Herman D. Ellis



Mackinac Bridge Authority—Reuben Ryding

PLACING TEMPORARY BANDS ON CABLE STRANDS

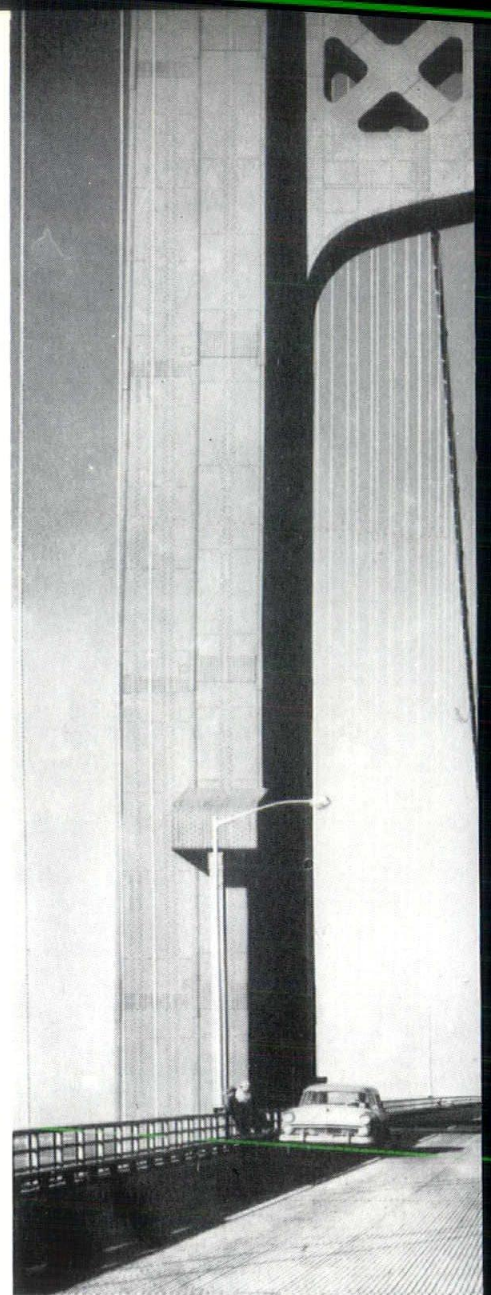
vertical suspenders at 39-foot intervals made from 2 1/4-inch diameter Tiger brand galvanized bridge rope. These have a breaking strength of 235 tons each and are pre-stressed to remove structural stretch. A total of 100,012 feet of wire rope suspenders were used to support the bridge floor—8,614 feet 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 traf-

fic 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 4 1/4 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 362,600 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;



BRIDGE ROADWAY FORTY-EIGHT FEET W

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-



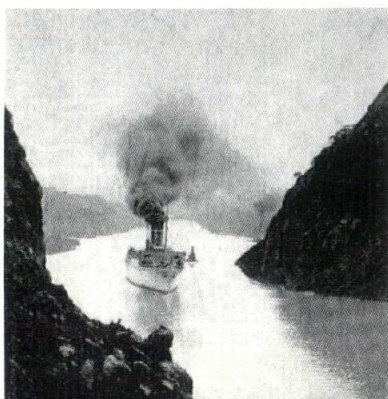
SEAL OF A.I.A.

THE SEVEN MAN-MADE WONDERS OF THE MODERN WORLD

PANAMA CANAL

Saves traveling by boat around a whole continent. Canal crosses Isthmus of Panama where continental divide dips lowest point, connecting Atlantic & Pacific oceans. Built by Col. George Washington Goethals. Begun 1906; opened Aug. 15, 1914. Removed 240,000,000 cu. yds. rock & earth. Length 50 mi. "Double-barrelled" locks—ships pass opposite directions simultaneously. Runs south from Limon Bay thru Gatun locks, east from Gatun Lake south-east to Bay of Panama. Panama 22 1/2 mi. east of Colon. Cost 360 million.

United States War Department



EIFFEL TOWER

World-famous landmark of Paris, France. Located on Champs de Mars on left bank. Built for Paris Exposition 1889 by Alexandre Gustave Eiffel in cooperation with architect M. Sauvestre. Took 2 yrs. 2 mos. to complete. It is 984 ft. high, rests on 4 massive pieces of masonry & concrete, interlaced girders being of steel. Base 330 ft. square. There are 3 observation platforms: 190 ft., 380 ft., and 905 ft. Elevators & stairways lead to top. Used 7,300 tons iron & steel. Cost \$1,000,000

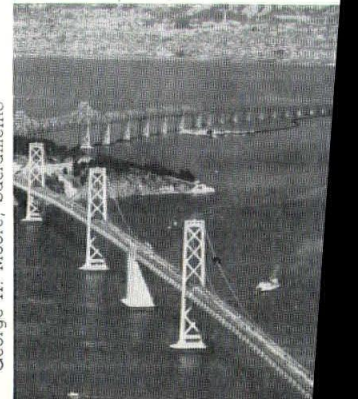
Ted Seemeyer

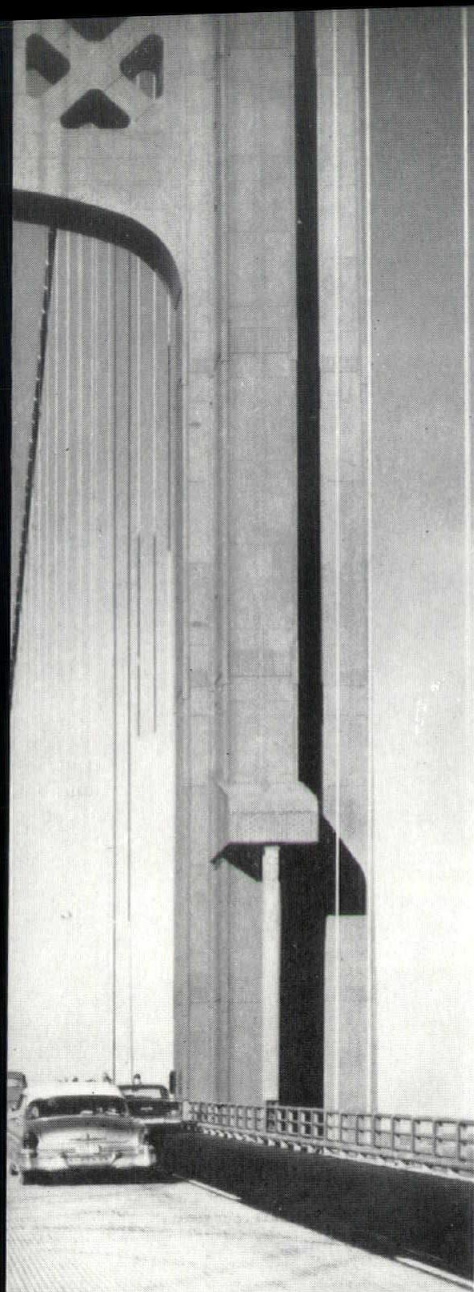


SAN FRANCISCO-OAKLAND BAY BR

Longest interrupted double-decked b in world. Crosses San Francisco Bay necting City with Oakland, Cal. B 1933; finished 1936. Length 8 mi. \$78,000,000. Bridge in 2 sections: suspension with 4 towers 350 ft. roadway on concrete piers rising 2 below water, to Yerba Buena Island ance section to Oakland like steel ra bridge over shallow East Bay. Roc 58 ft. wide. 6 lane upper deck; 3 truck; 2 lane train lower deck. Can pier 242 ft.—deepest in world

George H. Moore, Sacramento





COMMODATING FOUR LANES OF TRAFFIC

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

American Bridge Division, United States Steel Corporation—Carl H. Sander



LAYING I-BEAM-LOK STEEL FLOORING

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 3½ 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."

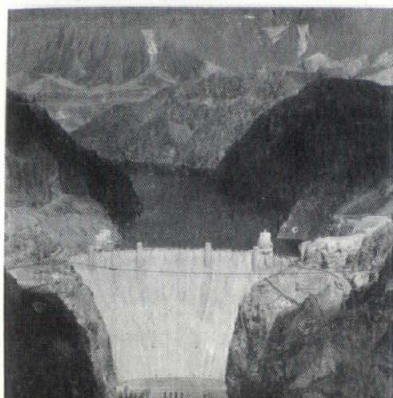
THE END

EMPIRE STATE BUILDING
Tallest building in the world located on 33rd & 34th Sts., New York City. Opened May 1st, 1931. Designed by Shreve, Lamb & Harmon Assoc. 102 stories, rising 1472 ft. to televis. tower tip. Exterior masonry Indiana limestone & chrome-nickel steel strips between 86th fls. 75 elevators. Steel work 10,000 tons. Observations 86 & 102 fls. Elevator tower, glass, chrome-nickel steel aluminum. Building accommodates 25,000 persons. Cost 52 million



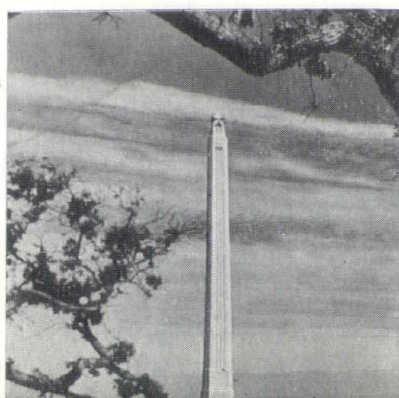
Ben Glaza

HOOVER DAM
World's highest dam located Colorado River, Black Canyon, Boulder, Nev. Dream of Arthur Powell Davis. Begun 1930, finished 1936. Dam 726 ft. high; auto-highway-crest 1,244 ft. long. Contains 3,245,612 cu. yds. of concrete. Base 660 ft. thick; top 45 ft. thick. Forms Lake Mead 115 mi. long, stores 31,141,755 ac-ft. of water-maximum depth 583 ft. Hydroelectric plant capacity 1,322,300 KW. Dam purpose to control floods, regulate Colorado River flow, intercept silt, provide water storage for irrigation & generate power



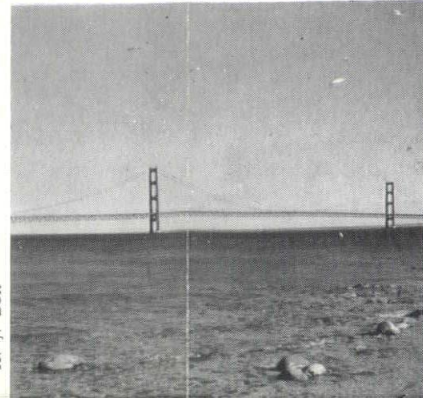
Fine Arts, Detroit Public Library

SAN JACINTO MEMORIAL
Tallest masonry monument in world near Houston, Texas. Designed by Alfred Charles Finn, A.I.A. Built 1936-1939. Rises 570 ft. 4 in. above historic San Jacinto battleground. Cost \$2,000,000. Built of reinforced concrete faced with Texas variegated buff limestone. Elevator to summit. Structure topped by great star 35 ft. high. Monument rests on largest single concrete foundation 124 ft. sq. & 15 ft. deep. San Jacinto Museum of History housed in base building



H. J. Bell

MACKINAC BRIDGE
Longest suspension bridge on earth spanning Straits of Mackinac between Mackinaw City, Lower peninsula and St. Ignace, Upper peninsula, Michigan. Designed by Dr. David Bernard Steinman. Begun May 1954; opened Nov. 1957. Length 5 mi. Single deck roadway width 48 ft., 4 traffic lanes. 2 ivory-painted steel towers 552 ft. above water, equivalent 48-story bldg. Steel superstructure 67,000 tons. Main cables 24½ in. dia. 68 ft. apart. Cable sag less than usual, increases stability, beauty. Cost \$100,000,000





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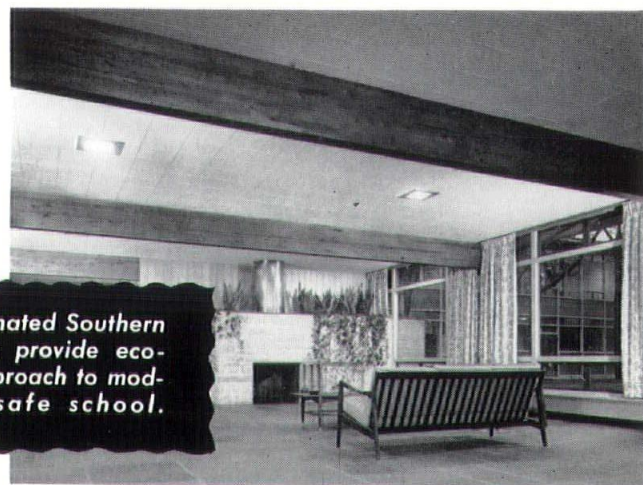
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Head Women's Activities for MSA Conference at Grand Hotel



ABOVE:
Mrs. LaVern James Nelsen



LEFT:
Mrs. James Barr Morison

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. Dellar, Mrs. Howard E. DeWolf, Mrs. Gerald G. Diehl, Mrs. Paul A. Flannagan, Mrs. Peter Frantz, Mrs. Lynn W. Fry.

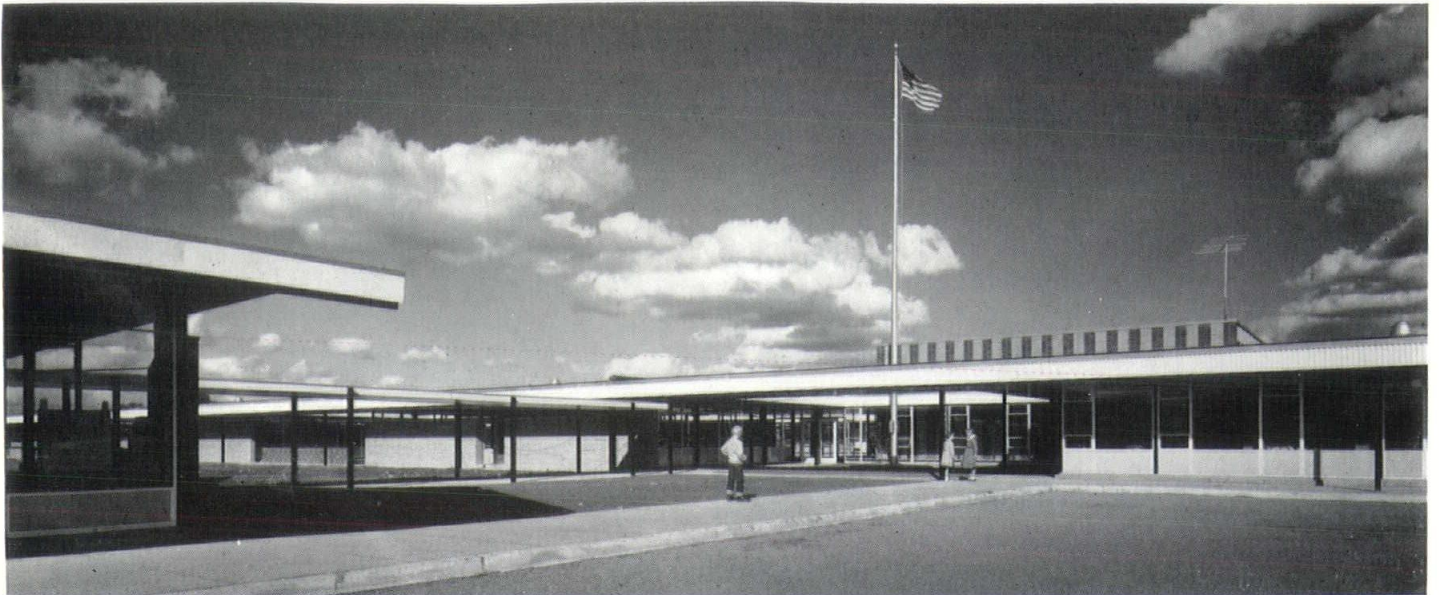
Mrs. Frederick W. Fuger, Mrs. Werner Guenther, Mrs. Ralph W. Hammett, Mrs. Eugene Hannum, Mrs. James B. Hughes, Mrs. Talmage C. Hughes, Mrs. Arthur K. Hyde, Mrs. Ian C. Ironside, Mrs. A. Charles Jones, Mrs. Herman J. Klein, Mrs. Adrian N. Langius, Mrs. Joseph W. Leinweber, Mrs. Amedeo Leone, Mrs. Charles H. MacMahon, Jr., Mrs. Earl G. Meyer, Mrs. Charles J. Mock.

Mrs. G. Frederick Muller, Mrs. Gustav Muth, Mrs. Auldin H. Nelson, Mrs. Edwin F. Noth, Mrs. Charles A. OBryon, Mrs. William H. Odell, Mrs. Louis T. Ollesheimer, Mrs. Charles V. Opdyke, Mrs. Suren Pilafian, Mrs. David E. Post, Mrs. Walter B. Sanders, Mrs. George B. Savage, Mrs. Carl A. Scheuffler, Mrs. Frederick J. Schoettley, Mrs. Frederick J. B. Sevald, Jr., Mrs. Linn Smith.

Mrs. James A. Spence, Mrs. George W. Sprau, Mrs. Frederick G. Stickel, Mrs. Peter Tarapata, Mrs. Charles W. Trambauer, Mrs. Peter Vander Laan, Mrs. C. Russell Wentworth, Mrs. Frederick E. Wigen, Mrs. C. H. Carlisle Wilson and Mrs. E. Burton Wolf.

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



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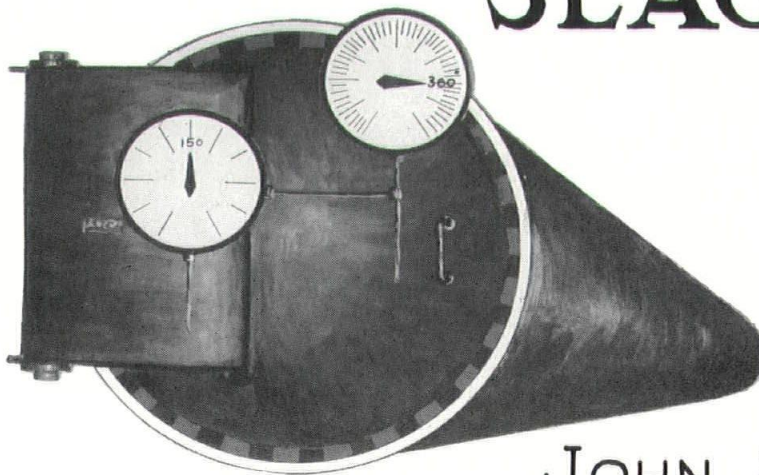
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Romance of the Mackinac Bridge

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 Kyaham 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 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 these 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."

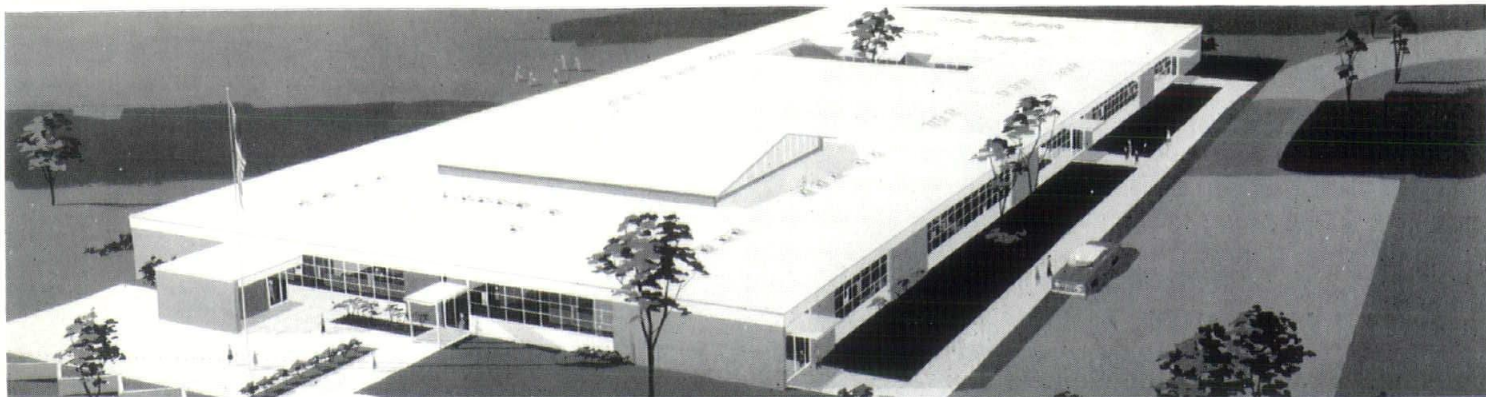
Here we are on the spot hallowed in history, surrounded by the crystal waters of Lake Michigan, Lake Huron and Lake Superior. Did we not come to this Emerald Island to feast upon its beauty, exchange ideas, and escape the pressure and complications of our own making? In this kind of setting it is fitting 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 slumbers 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

DON'T MISS

"Mackinac Bridge Dairy," the magnificent breath-taking sound film, to be shown at the MSA Midsummer Conference, by the American Bridge Division of U. S. Steel Corporation.



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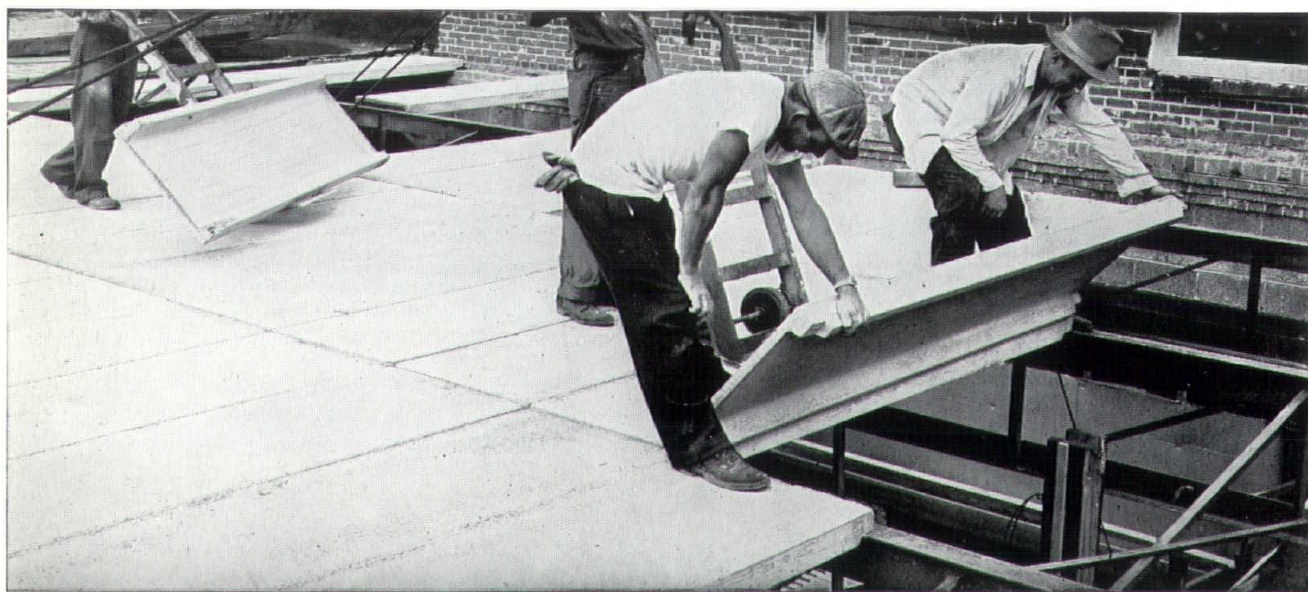
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four billion man hours of backbreaking work went into this undertaking, but all for naught insofar as the advancement of people's prospects. Its achievement is that of persisting almost without change for 6,000 years. Like the Great Pyramid, the Mackinac 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 wail 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, o architects, what edifice splendid will be the repository of your dreams?

In man's long march over barriers bridged and bypassed, 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.

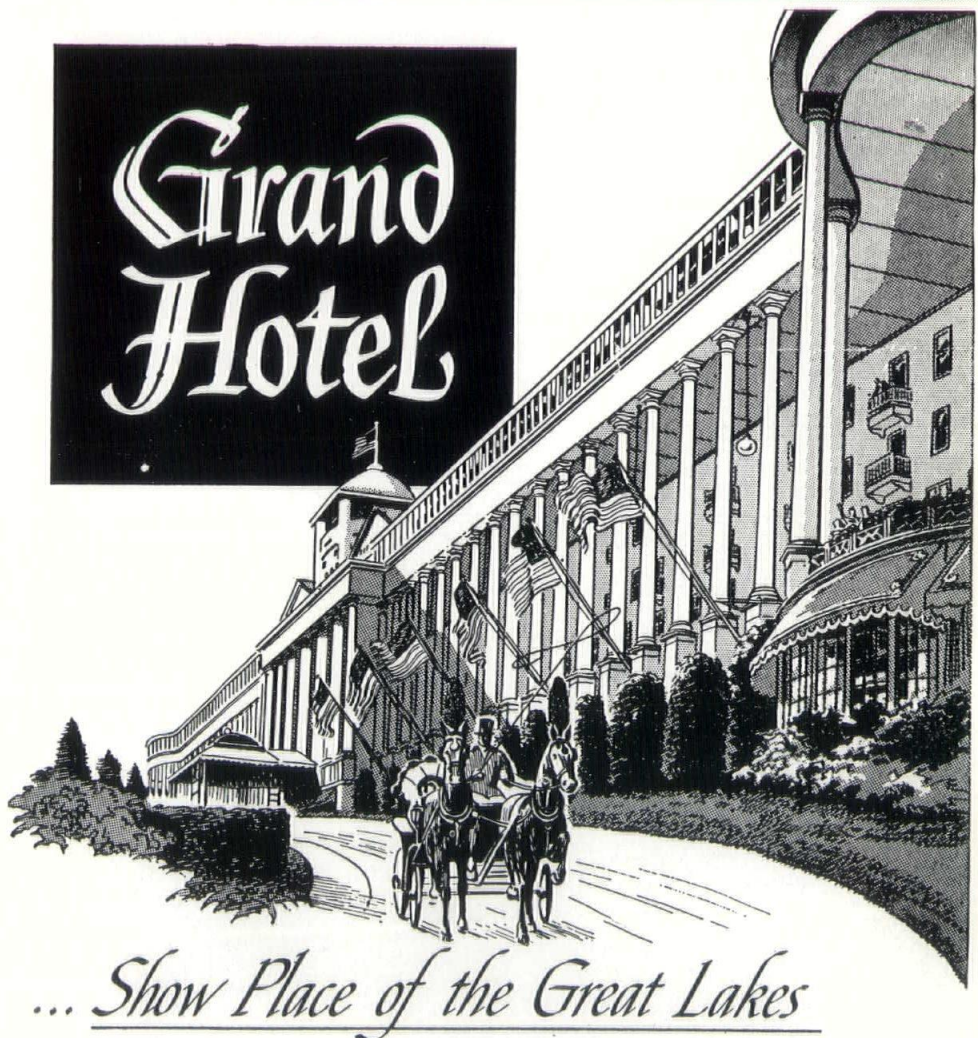
Youth, eternal youth, is the only hope of the world! Youth with all of their love and none of our hate! Youth brimming over with ideals and none of our cynicism.

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 verstaillity 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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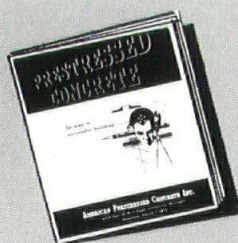
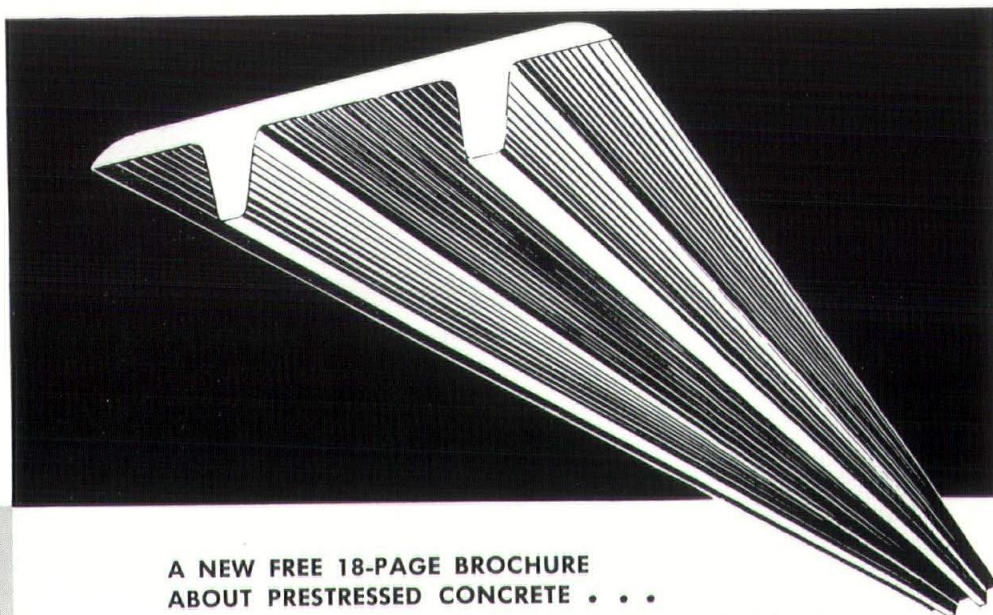
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Angelique

**"There once lived an Indian Maid"
The Romance of The Old Biddle House
On Mackinac Island**

Many, many moons ago—many more moons ago than even the oldest of us can remember—there lived a beautiful Indian princess. The daughter of a powerful reigning chieftan of the Chipewewa nation, Angelique, was exceedingly lovely with fair skin and hair and eyes "like the black of the midnight sky." Talented and of queenly appearance, she lived in her father's house learning white men's ways, absorbing their culture.

Her father, Chief White Cloud, a man of more than average ability, taught her many things. A man of letters, he had collaborated with a white man named Schoolcraft to write the first Indian dictionary based on phonetic sounds. Longfellow, a poet, heard the rhythmic metric sound of the words and wove them into his song of Hiawatha. Chief White Cloud was wise to the white man's ways; none could cheat him. He could count—by the decimal system—up to the tens of thousands. His daughter was destined for great things.

But the great Manitou called the learned chieftan home to the Happy Hunting Ground before he could complete Angelique's education. Her mother, finding favor in the eyes of a white

fur trader, married him, and Angelique slipped quietly into the life of her stepfather Bailey.

Angelique's story would have ended there and been forgotten, but today all roads lead to Angelique's home. Thousands taking the northern trail to Michigan's historic northern territory to view the latest wonder of the world—the Mackinac Bridge—will pass her home, the Old Biddle House, on Mackinac Island, reputedly the oldest residence in the northwest territory.

Everyone who has visited the Island and walked about a bit or taken a carriage ride has seen the house—a very old building in advanced deterioration, its siding hanging on it like the scales of a long dead fish—its age showing. Like Angelique, it too would have faded into history had not fate—and the Michigan Society of Architects—stepped in to save it and by so doing saved the story of the lovely Indian maiden.

This year the MSA, together with all others engaged in the building industry, is restoring the venerable old house to its original beauty. Adrian N. Langius, fellow of the American Institute of Architects and director of the Building Division of the State Administrative Department, reports the work is well under way. Carefully, the old structure is being taken down—piece by piece—to be reconstructed in its original form.

"We will use as many of the old timbers as we can," Langius said. "We are fortunate that so many of the original logs are in good condition. Much of the interior siding and original glass is also available."

The house is of particular interest to the Architects because of its unusual construction. It is recorded by the Historic American Buildings survey of 1935 as an outstanding example of an architectural system brought to Mackinac Island by early French traders from Canada. This system consisted of vertical timbers erected at the corners and windows and door jams. These were pinned to hewn sills and plates and contained lengthwise slots on two sides. Horizontal logs three to five inches in diameter, having tapered ends, were dropped into the slots and piled on the sills, forming the exterior walls. The crevices were chinked, although at some later time. Beaded and beveled siding was added. The inside walls were plastered.

In addition to its great age, it is beautifully proportioned. The interior is surprisingly refined. The door casing and other trim members are carefully detailed and executed. One of the features is a beautifully molded mantel, a strange refinement in the rough-hewn wilderness.

Tradition among Biddle's descendants places the original construction of the home in 1779. This isn't confirmed, but there seems to be little doubt or contradiction that it is the earliest residen-

tial structure of the Northwest Territory.

The house consisted originally of one floor, 55 by 20 feet, with a dormered loft. The ground floor had three rooms and a hall. Located on Market Street, it has as neighbors the old agency House of the American Fur Company, now a museum, and the Beaumont Memorial—a beautiful tribute to one of the greatest figures in American medical history, Dr. William Beaumont, fort physician during the fur days—which was restored by the Michigan State Medical Society.

Here then stands Angelique's house—an authentic glimpse into the past. To the imaginative, it is more than a glimpse; it is the story of the Michigan's historic past—Angelique's story.

For it was to this fairy-like Island of Michilimackinac that Edward Biddle, scion of a prosperous and proud Philadelphia family, came in 1808. Situated in the Straits of Michigan, the Island was the mecca of all those who sought romance and fortune. Coveted prize of three nations, it had been ruled by France, England and the United States. It was the great mart of trade long before Chicago, St. Paul and Milwaukee entered into their first beginnings and it vied as a gay metropolis with its contemporaries, Detroit and St. Louis.

Little is known of Edward Biddle prior to the time he came to the Island. Although historical records vary, according to a chart of the Biddle family he was the son of John Biddle, brother of Nicholas Biddle, of Philadelphia banking fame. John Biddle was a loyalist and was banished from the United States during the American Revolution.

The young easterner was attracted to the beautiful Indian girl and soon became very attached to her, an affection she returned warmly. Angelique spoke only French and Indian. Edward did not understand her language; neither did she understand him. But the language of love is universal and in 1819, Edward and his beautiful bride were married by a notary public.

"Would that my pen might do justice to this wedding," a writer of the times said. "It was most picturesque, yet no one can carefully understand its attractiveness and novelty without knowing the beauty of the bride." The bride wore a traditional Indian costume—a dress made of "the finest black and blue broadcloth beautifully ornamented with silk and moosehair work." It was a costume, the like of which she wore all her life. Angelique, in spite of being the mistress of one of the socially prominent homes in the area, always remained true to her Indian heritage. It is averred by some that because of the fairness of her skin, that she could not have been wholly of Indian blood, but there is no claim on the part of the family that she was not.

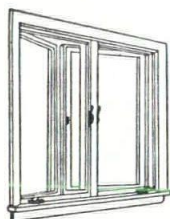
The marriage was a happy one. Edward prospered and became one of the more prominent of the early fur

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."

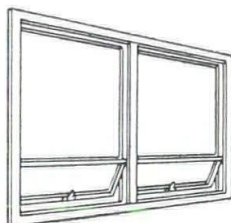
Orr will release a third novel, "The Outlander," soon—a novel reported to be based on the life of Biddle and his romance with Angelique. Orr's source of information, he says, are from the original letters . . . "original letters written by the person concerned at the time are the only true bits of evidence," he states. "All others are hearsay."

Andersen Windowalls

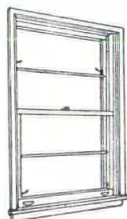
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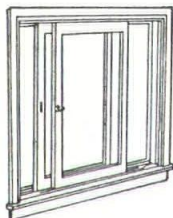
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Michigan Society of Architects

and

National Architect

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 the Biddle's children. Sarah was born at the very moment her sister Mary died. Indians now living in the area still tell the story of the beautiful Sophie and her ill-fated romance. It is said that if one listens closely, the soft wind through the lilacs reproduces the sighs of Sophie mourning her lost love.

Many stories have been written about Sophie, the oldest of the Biddle children. The stories differ with the historian or the story teller, but all agree that she was unusually lovely—tall and slender and exceedingly fair with dark, dark hair and blue eyes.

"She walked in beauty," one writer says, "and carried her head a bit on one side—like a flower drooping on its stem."

Edward sent his beautiful daughter out from the Island to be educated. The most accepted story relates that she went to Philadelphia to the home of the Nicholas Biddles where she was popular and part of the social whirl. It was

here, 'tis said, that she met the love of her life, a dashing Lieutenant in the United States Artillery. The eastern Biddles, however, disapproving of their kin's relationship to an Indian, had it so whispered about and the love-smitten, but weak Lieutenant, rather than defy society, deserted his love. Heartbroken, the story continues, Sophie returned to her Island home and committed suicide. Other stories relate that she died there of heartbreak, a story much more believable knowing her Indian heritage. Indians rarely take their own lives, preferring to bear in silence their loves, hates and griefs.

Still another story says that Sophie was sent to the home of the Detroit Biddles where she was the reigning belle of the time and where she met the Lieutenant. To his pleadings that she

marry him, her answer always was, "Wait until you see my mother." The Lieutenant thereupon took a trip up to the Island and upon seeing Angelique in her Indian garb "shrieked and fled."

In any event, Sophie never married and the old cemetery holds her lovely remains. Tradition says that the Lieutenant still returns on moonlight nights to put a rose on her grave—as he is reported to have done in real life.

But this is Angelique's story—not Sophie's. For fifty years she maintained 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 Beaumont 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 storied 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. Gjelsteen, 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, lumber 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.

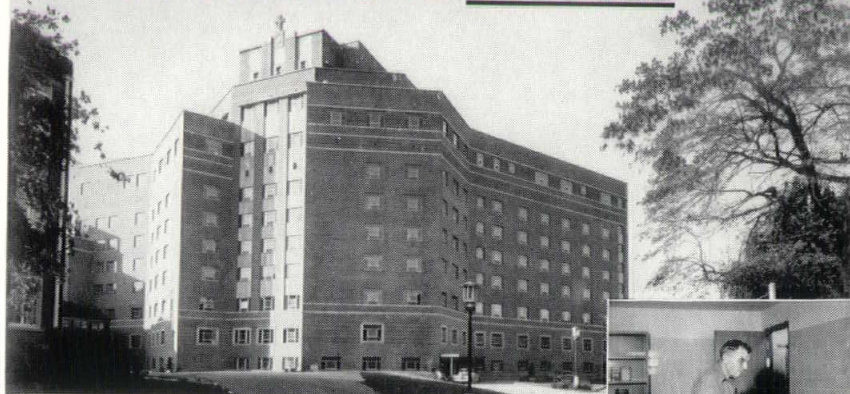
An old poem reads:

"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.

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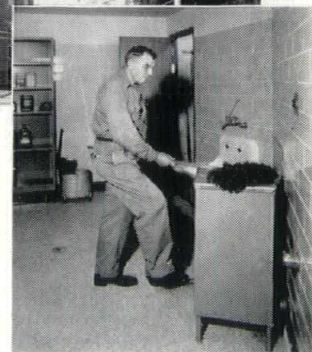
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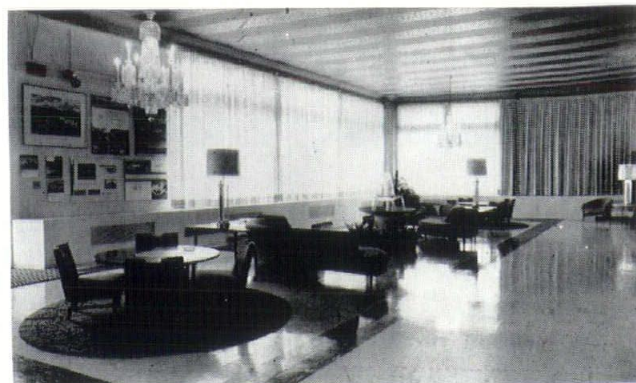
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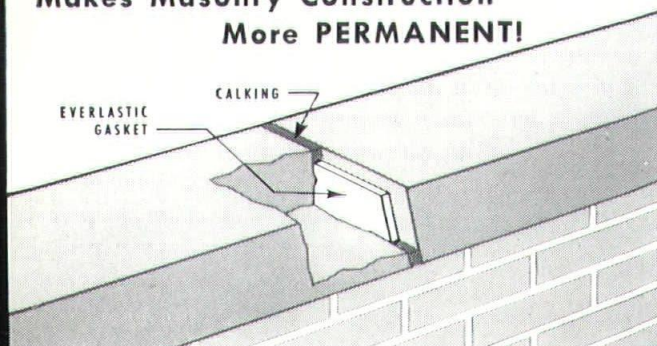
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Biddle House

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, Eli Van Sweden, of Grand Rapids, has spent about 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.

Gold Star contributors to date are Architect Roger Allen, of Grand Rapids; General Contractors, Reniger Construction Co., of Lansing, and O. W. Burke Co., of Detroit; Producers, Whitcomb-Bauer Flooring, Inc., Detroit; Electrical Contractor, Harlan Electric Co., Detroit; Mechanical Contractor, The Stanley-Carter Co., of Detroit; Associations, Producers' Council, Michigan Chapter, Detroit; Michigan Building Industry Banquet Committee, Detroit; Plumbing & Heating Industry of Detroit, and Detroit Electrical Contractors Association.



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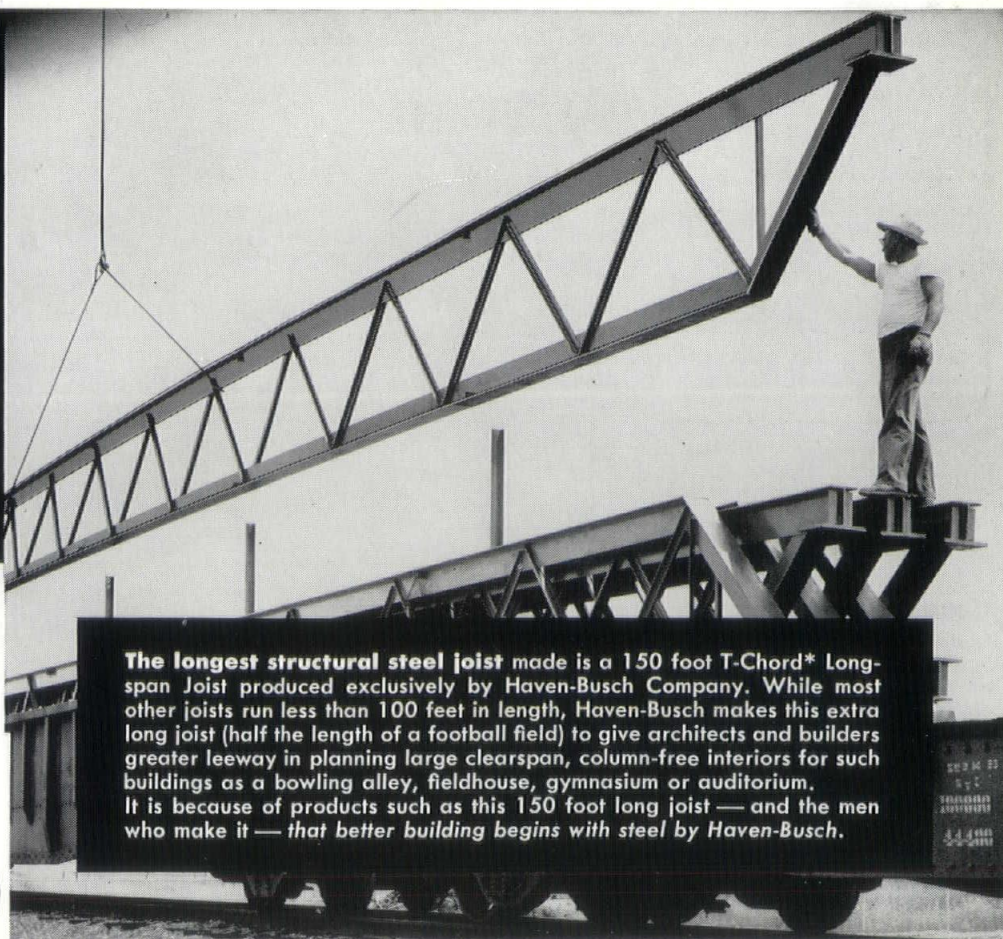
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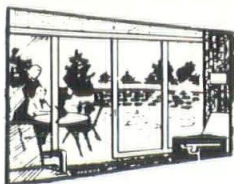
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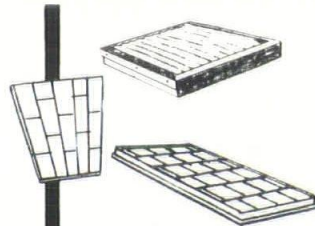
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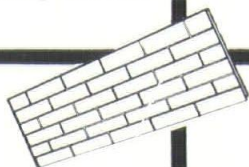


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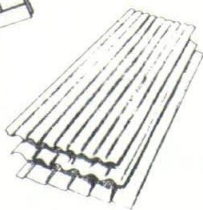
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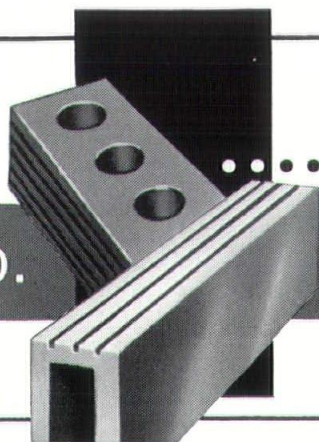
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New Members

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

Frederick H. Crane, William H. Millay, Clarence J. A. Mogridge, Jr., J. John Nagy, James A. Parker, Bradley H. Storrer and Frederick H. Strauss.

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.

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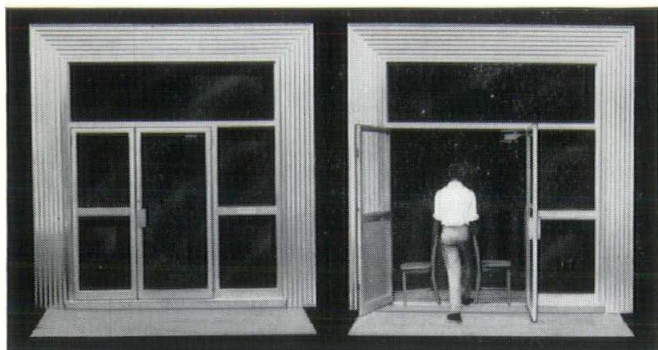
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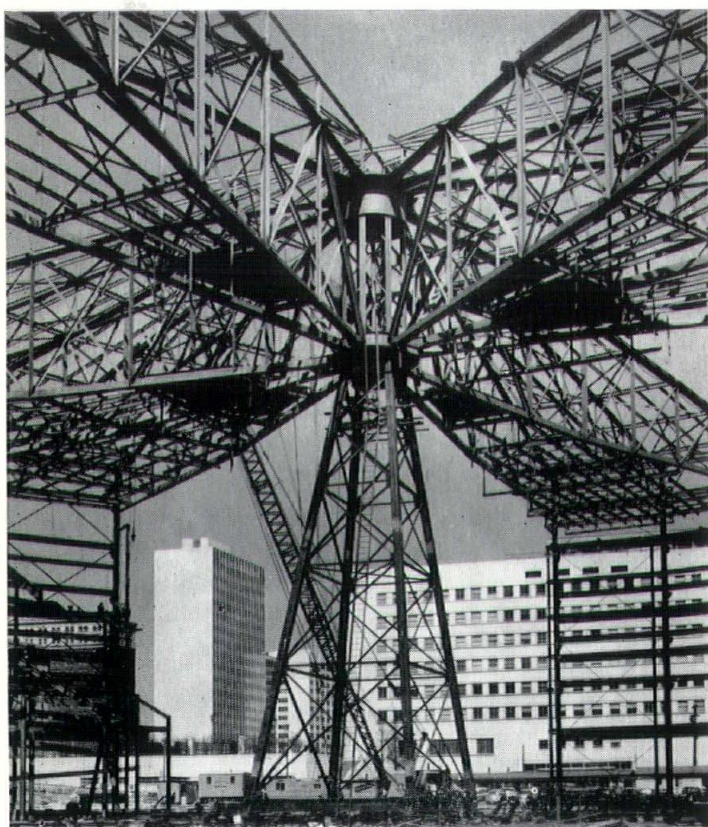


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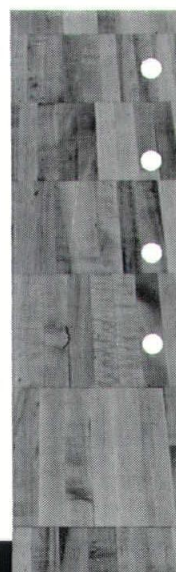
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Thursday, December 18—Annual Meet-
ing and Election, in Detroit

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 Col-
lege 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 institu-
tion."

Dean Youtz makes it plain that con-
temporary 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 cur-
rent social needs. Period design has
all but disappeared in our day and has
been replaced by living design."

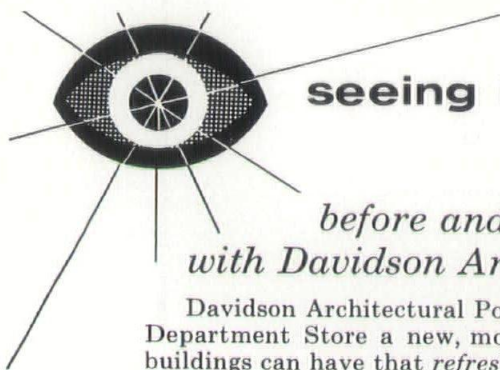
What has been gained by this revolution
in the arts of design? Says Dean
Youtz, "The gifted artists and architects
have found their talents liberated. But
the mediocre designer can't go on mas-
querading as a creative architect or
artist."

"Modern work glaringly 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 mat-
ter 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
uninventive. 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 Vene-
tian."

"Our best modern design has a purity
of line or form that suggests both engi-
neering and architecture, draftsmanship
and art," the Dean concludes.

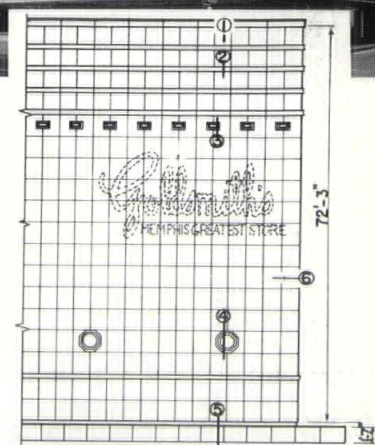
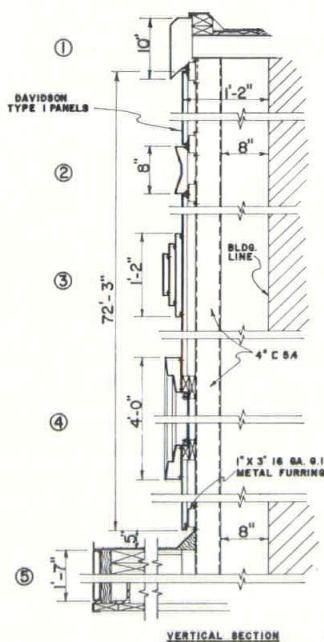
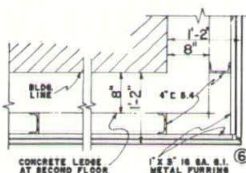


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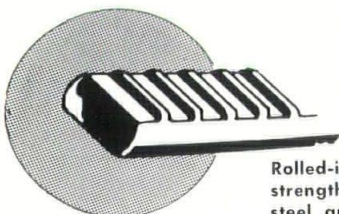
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CLIFFORD N. WRIGHT, A.I.A., prominent Detroit residential architect, was interviewed June 26, by Jean Loach, WXYZ moderator on the "Our Friend Harry" program.

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."

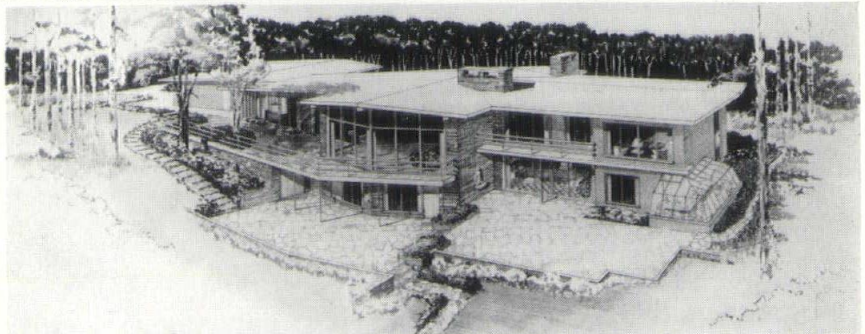
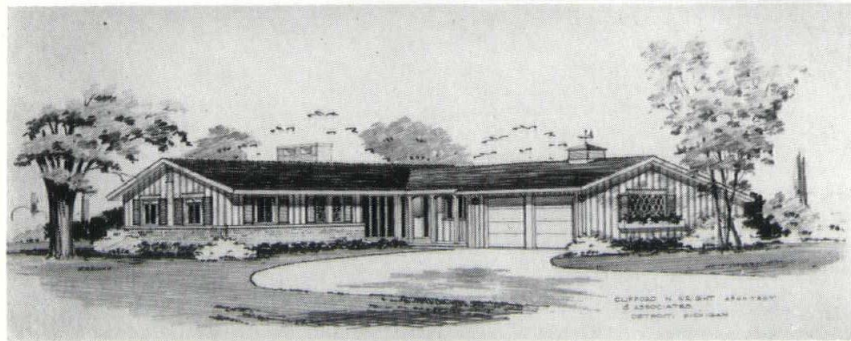
When told that many home buyers are afraid of the extra cost, Wright replied:

"The extra cost is nominal when you consider the advantages. The home-buyer 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 audiences 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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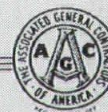
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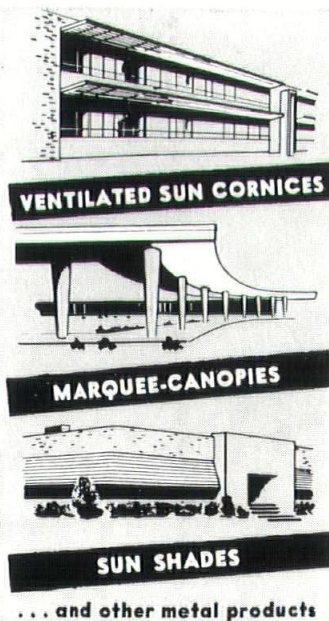


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Official Publication of the Western Michigan Chapter of The American Institute of Architects

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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.

Photo By Rebman Photo Service



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

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: Elmer J. 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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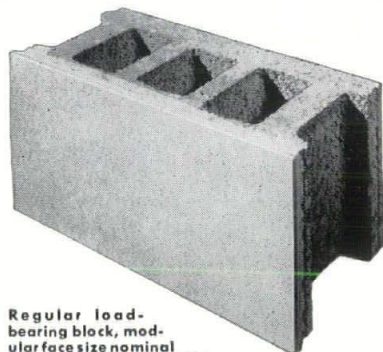


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Official Publication of the Saginaw Valley Chapter of The American Institute of Architects

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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 also 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.

PAUL A. BRYSELBOUT, 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 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."

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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

GREENFIELD ELEMENTARY SCHOOL

Birmingham, Michigan

EBERLE M. SMITH
ASSOCIATES, INC.
Architects — Engineers
Detroit, Michigan

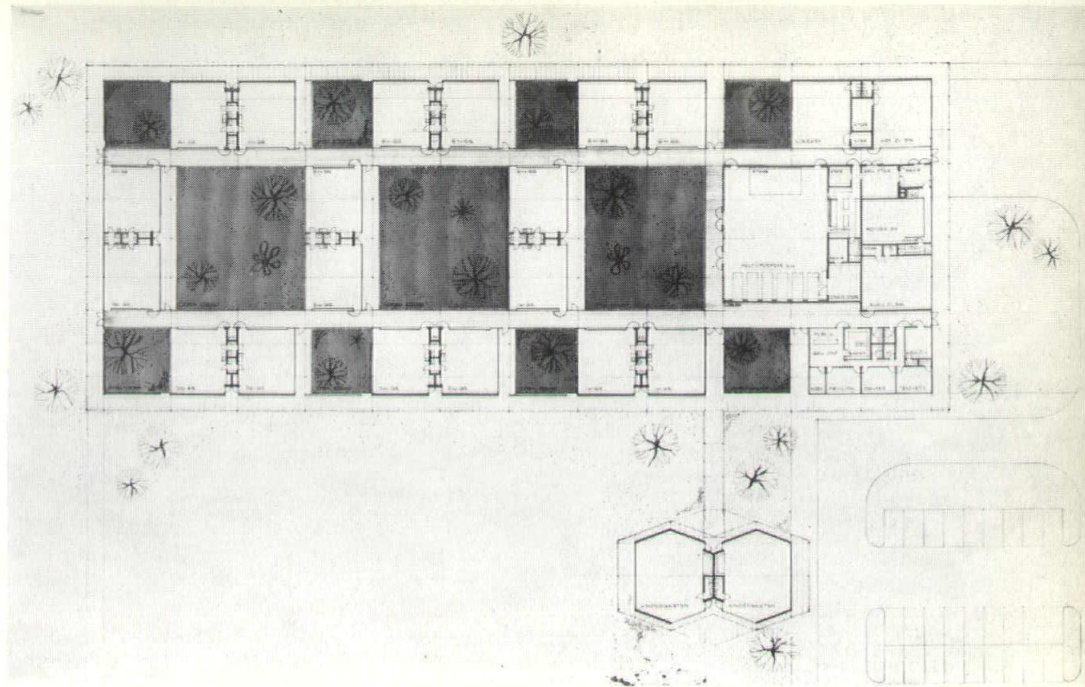
Typical Corridor: As one walks along the main east-west corridors a changing panorama unfolds. Attractive landscaped courts appear, first on one side and then the other. Wood paneled wardrobes, used by each classroom, open into the corridor



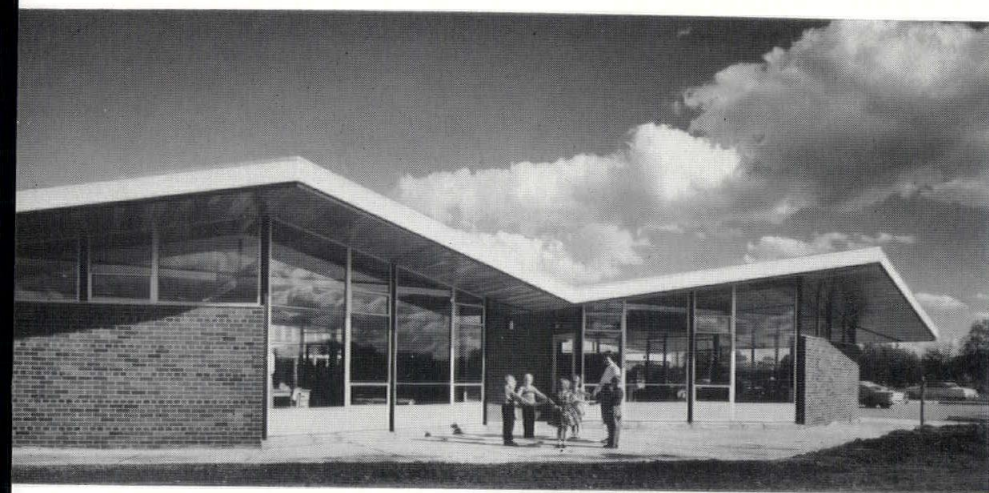
This school has been cited as one of the seven best American Schools for 1958 by The School Executive, a nationally known magazine for educational administrators, in its annual Better School Design Competition. Each year this publication invites the architectural firms doing outstanding work in educational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

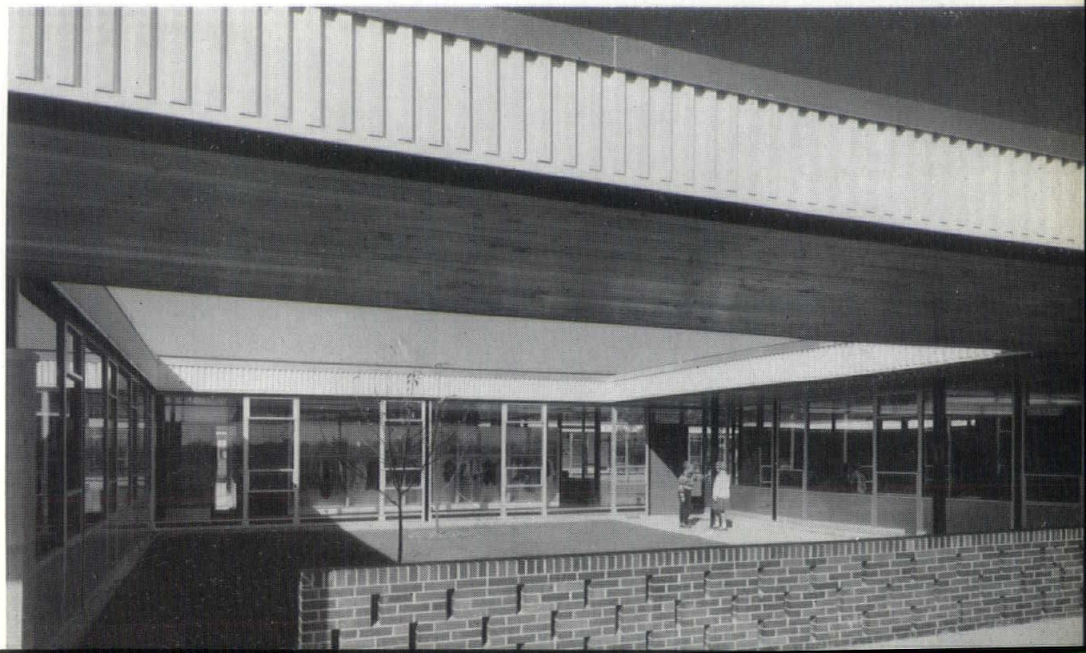
Floor Plan: The orderly, modular patterns of construction is apparent in the floor plan. Into this regular pattern the architects introduced a pleasant variety of vistas by the use of vari-sized landscaped garden courts and a changing palette of classroom colors

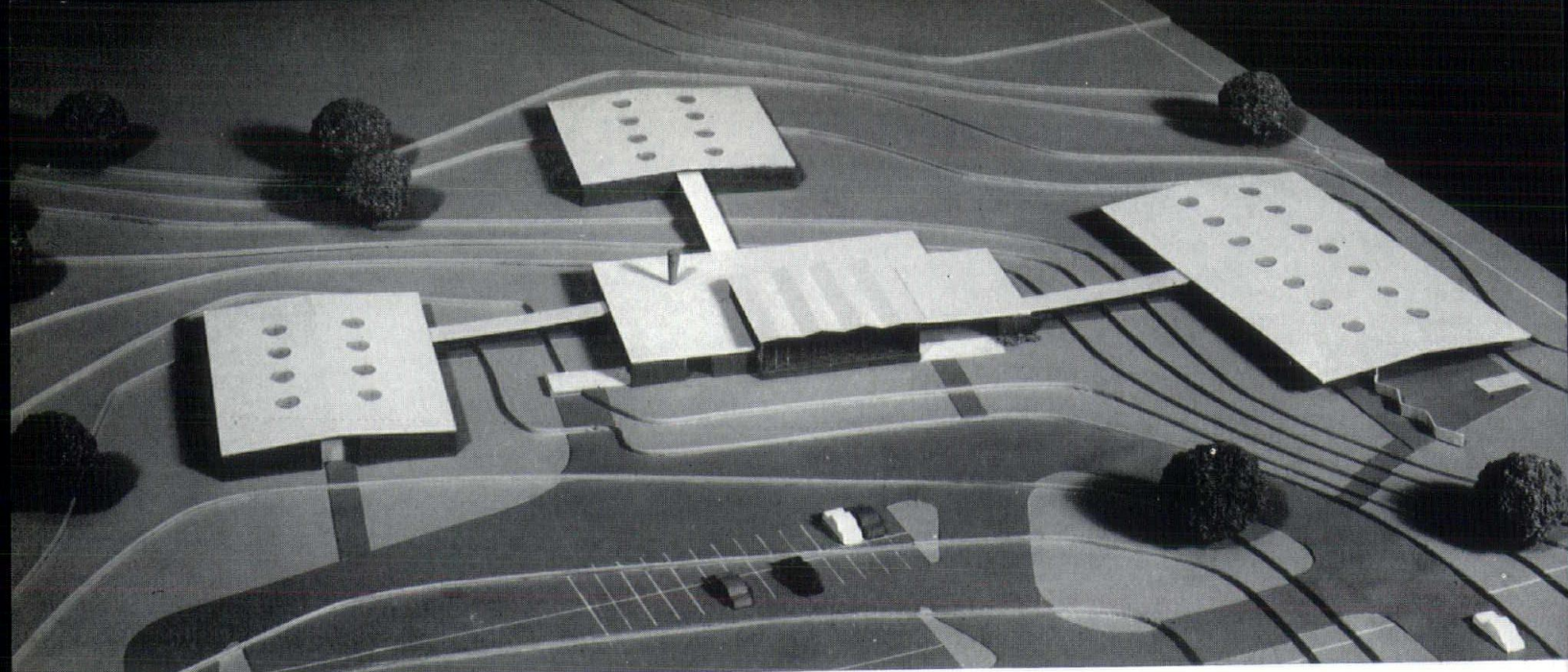


The special characteristics of kindergarten education are expressed by setting this unit apart from the main building and providing its own play area. The hexagonal plan and double-ridged roof complement the low rectilinear form of the main building and provide a sympathetic scale and sense of shelter



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





Model showing the contour lines and campus type layout

NOVI ELEMENTARY SCHOOL

Novi, Michigan

CHARLES W. LANE & ASSOCIATES, ARCHITECTS

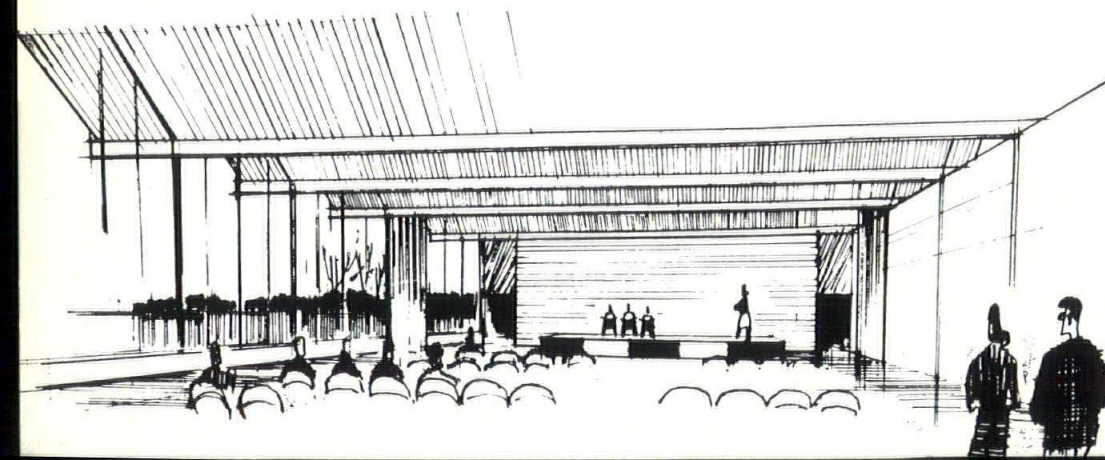
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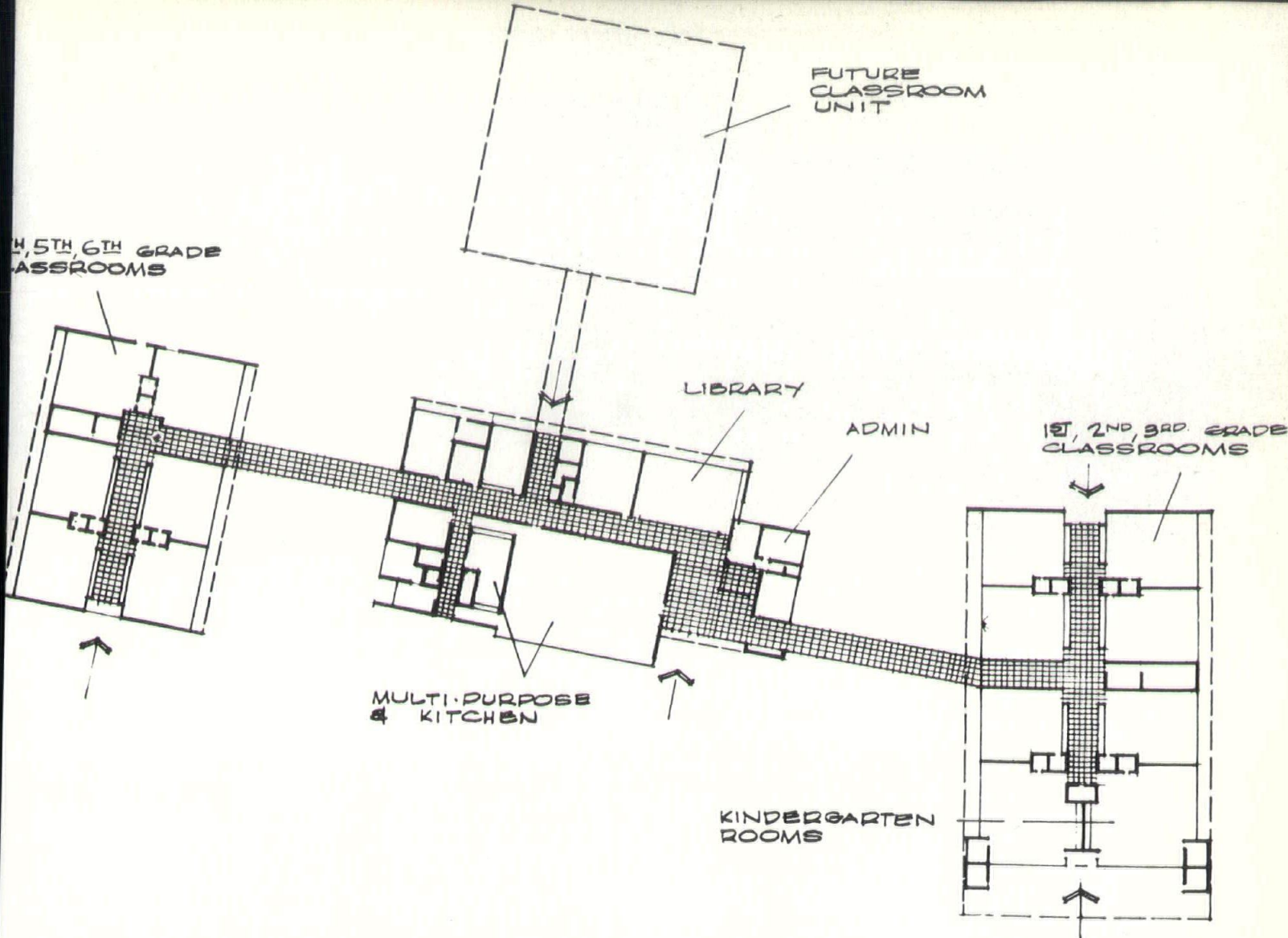
This school was accepted for exhibition at the Regional Convention of the American Association of School Administrators in St. Louis, Missouri, February 22 - 25, 1958. It was also exhibited in Lansing, Michigan, during October, 1957, at a meeting of the Michigan Association of School Boards, where it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

Multi-purpose room provides space for community activities



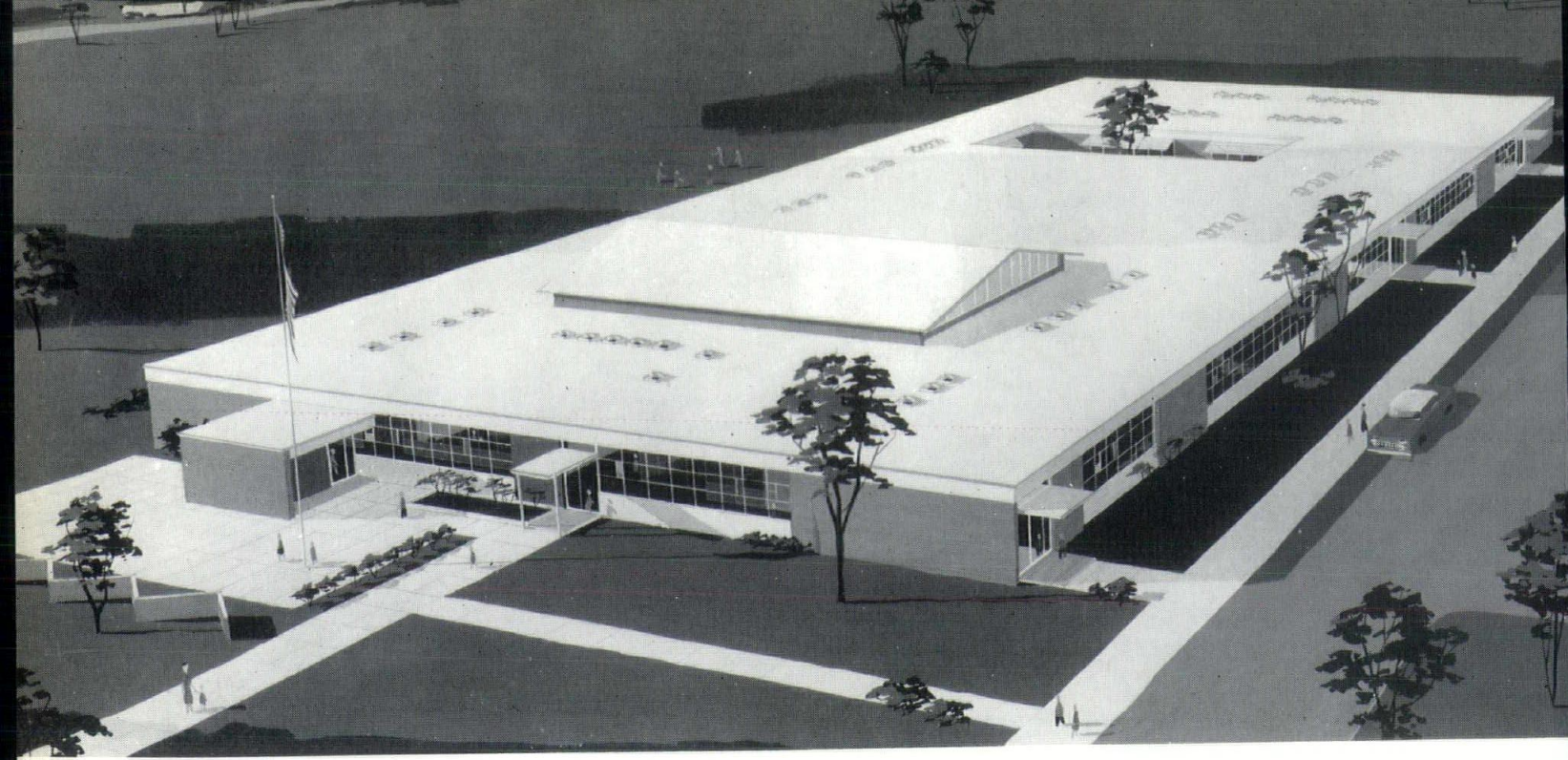


CHARLES W. LANE & ASSOCIATES ARCHITECTS
 OVI ELEMENTARY SCHOOL NO. 2
 NORTH →

Floor plan showing separation of children by grade levels—kindergarten, lower elementary (grades 1-3), upper elementary (grades 4-6)

This school is being constructed for 420 students, 30 per classroom 60 per grade.
 Provision is made for expansion to house a maximum enrollment of 600

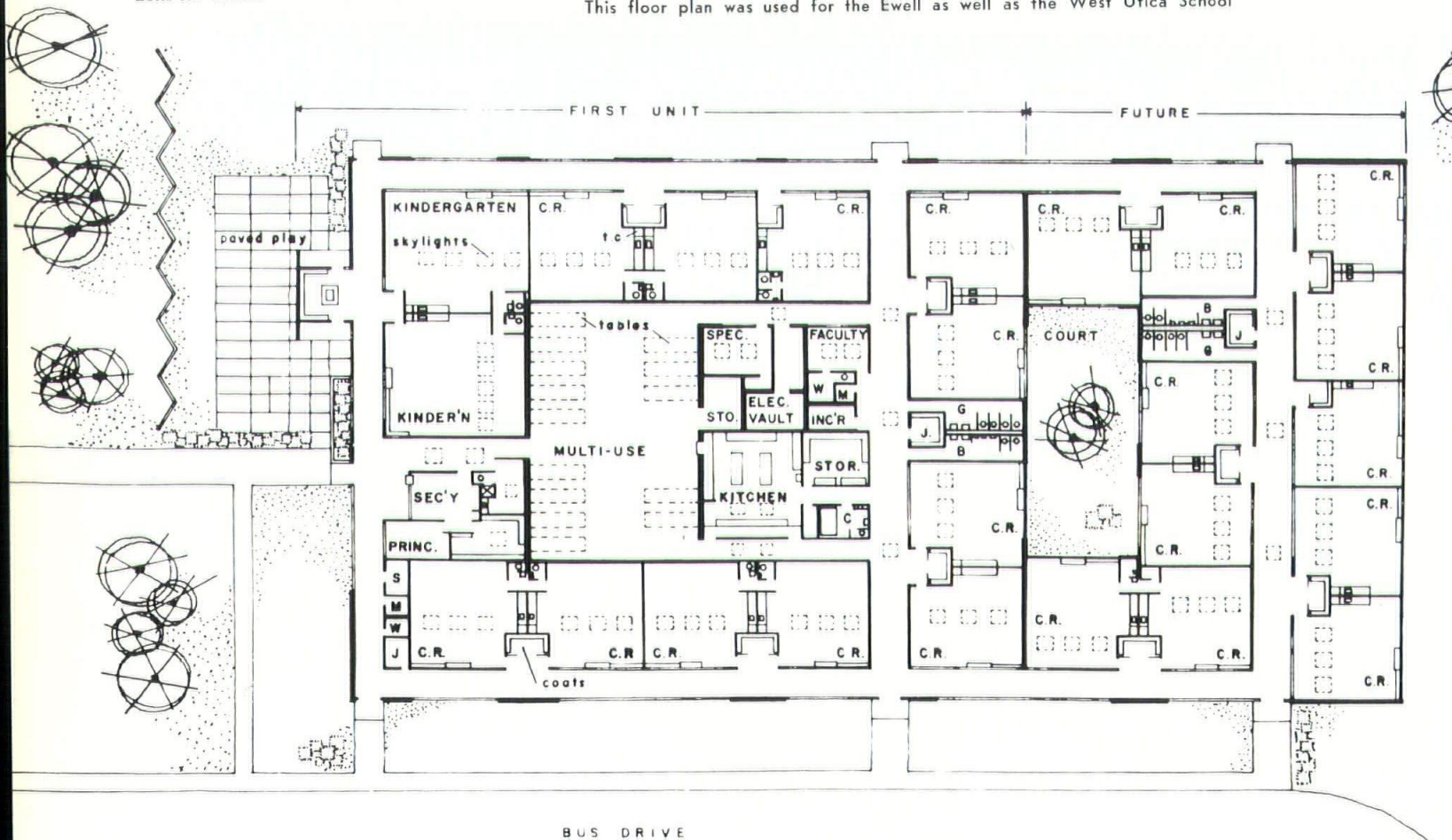




Rendering above covers both the Ewell and West Utica Elementary Schools

Lens-Art Photos

This floor plan was used for the Ewell as well as the West Utica School



EWELL ELEMENTARY SCHOOL

WEST UTICA ELEMENTARY SCHOOL

Utica, Michigan

SMITH + SMITH /ARCHITECTS

Royal Oak, Michigan



Ewell Elementary School, Utica, Michigan



West Utica Elementary School, Utica, Michigan

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.

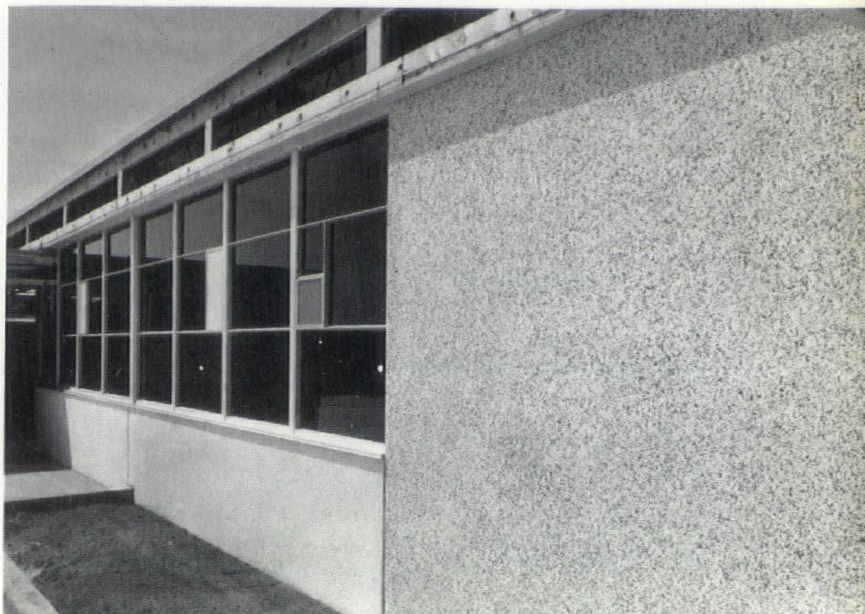
UNIT	HOT-WATER HEAT	ELECTRIC HEAT
Building cost	\$368,044	\$371,787
Cost per square foot	13.60	13.61
Cost per cubic foot	1.19	1.20
Cost per pupil	920.	864. (430)

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."

Multi-Purpose Room



Photo shows precast exterior concrete panel decorated with crushed red Venetian glass



Detroit Architectural Golf League



Detroit Free Press Photo

Left:
Exclusive Pine Lake County Club where Detroit Architectural Golf League will hold its August Tournament.

Club House shown lower right corner on Peninsula jutting out into Pine Lake

GOLF TOURNAMENT SCHEDULE

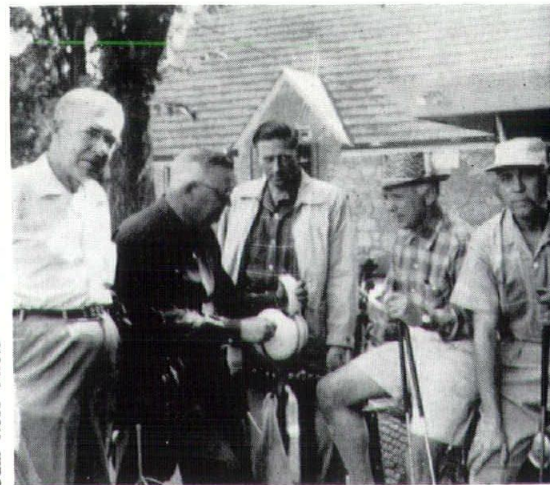
August 12—Pine Lake Country Club—Pontiac

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

RIGHT (left to right): Ray Perkins, Fred Harley, Ben Wood, Frank Greer and Paul Brown waiting their turn at the first tee



Sam Ross Photo

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 oper-

ates twelve plants in Tennessee, Virginia and Kentucky, including their new million dollar tunnel kiln near Louisville, Kentucky opened June 25.

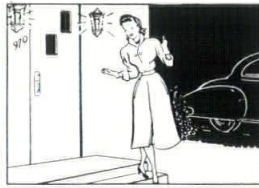
According to Sam Burtman, president of The Century Brick Company some of the distinctive features of General Shale are a complete quality control program,

a modern experimental laboratory and a department of marketing research.

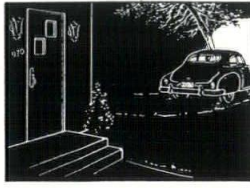
The acquisition of General Shale's Appalachian Line, says Burtman, adds substantially to the Century Brick Company's position to meet the requirements of the most discriminating architects in the Greater Detroit area.



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HEADS COCKTAIL PARTY

The Council will sponsor a Cocktail Party on Saturday, August 9, preceding the Fifteenth Annual Mid-summer Conference Banquet of the Michigan Society of Architects at Grand Hotel, Mackinac Island.

Chairman of the Cocktail Party is Eugene Hannum, Council Vice President. Working on his committee to make the event an outstanding success are Charles W. Trambauer, G. Frederick Muller, C. Russell Wentworth, E. Burton Wolf and Charles J. Mock.

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 1/2" thick, in three sizes: 8" x 8" x 12", and 12" x 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 ma-

terials are subject to oxidation or sulfation, 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".

NATIONAL ARCHITECT*

Official Publication, National Council of Architectural Registration Boards

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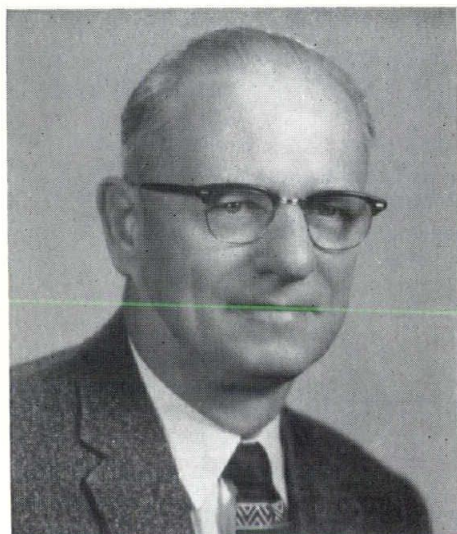
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NCARB CONVENTION



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.; Paul W. Drake of Summit, N. J.; A. J. Brenner, of Phoenix, Ariz.

Since the death last year of the councils' secretary-treasurer, William L. Perkins, Smay has acted in that capacity.

Smay, a native of Nevada, Iowa, and graduate of Iowa State College, taught architecture at the University of Nebraska for six years. He went to the University of Oklahoma, Department of Architecture in 1929, where he has taught since except for a period in the U. S. Army.

The convention authorized the Councils' 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 succeeds 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 Councils' 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 vignettted from one side to the other until the true division is no longer discernable. 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.

Born in Harrison County, Missouri, September 1, 1866, he graduated from the Ridgeway, Missouri High school in 1905; in architecture and engineering in 1910. He was the third generation of architects, his father and grandfather preceding him in the profession. For nine years he was associated with his father in the practice of architecture. On his 22nd birthday he married Miss Jessie M. Yeater. They have one son, William Jr., who is married and is the father of one child.

In 1917 they moved to Chariton, Iowa and lived there continuously for the remainder of his life. Here he practiced under his own name. For over 20 years he was City Engineer, in addition to his own work. He brought great credit to himself and prominence to Chariton by making it synonymous with the National Council of Architectural Registration Boards.

He was a member of the Iowa Engineering Society from 1926. In 1927 he was elected to membership in The American Institute of Architects. That same year the Iowa Architectural Examining Board was organized and he served continuously on that Board, being secretary from 1932. He was Vice President of the Iowa Chapter of The American Institute of Architects. He was on the Executive Committee of the National Council of Architectural Registration Boards from 1934, and was the 12th President of that organization during 1938-39, and its Secretary-Treasurer since 1940. In 1940 The American Institute of Architects honored him with its first presentation of the Edward C. Kemper award. He was the holder of National Council certificate No. 400 and was registered in Iowa, Illinois and Missouri. He was a member of the National Architectural Accrediting Board.

He was consulting architect for the Iowa Masonic Library, Museum and Administration Building, at Cedar Rapids. 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 builded 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

wherever architectural boards give examinations and whenever candidates seek to secure National Council certificates.

He belonged to the Methodist Church and was Secretary of the Board of Trustees for several years. He made a great contribution to Masonry in the State of Iowa. He was Grand Master in 1944 and 1945, and Grand High Priest in 1952.

Truly he followed admonition of the immortal John Ruskin:—

"When we build let us think that we build forever. Let it not be for present delight nor for present use alone. Let it be such work as our descendants will thank us for, and let us think, as we lay stone on stone, that a time is to come when those stones will be sacred because our hands have touched them, and that men will say as they look upon the labor and wrought substance of them, 'see this our fathers did for us'."

Among the ancients credence was given to four essences; air, earth, fire and water. To these four should be added the triple essence of FRIENDSHIP, FIDELITY and FELLOWSHIP. Our friend and counsellor had this triple essence.

Sunset and Evening Star
And one clear call for me
And may there be no moaning of the Bar
When I put out to sea.

William, Bill or Sunny; which ever name you may choose; had as his five Cs, Character, Courtliness, Consideration, Cultivation and Courage.

CHARACTER that belongs to a man dedicated to his work and consecrated to the needful task of maintaining its purity.

COURTLINESS found only in those of gentle breeding and good taste.

CONSIDERATION of others was reflected in all of his actions.

CULTIVATION of those finer virtues which marked him as a man of distinction.

COURAGE to stand up and be counted among those who believe in the right.

On these five Cs moved his flotilla of ships. The flag ship was named LEADERSHIP, and close behind came CRAFTSMANSHIP and FELLOWSHIP.

What a noble triad of ships. He took great pride in CRAFTSMANSHIP. That he built himself. It was apparent in everything he undertook. The constant striving for perfection, the research for better things, the development of the ideal, were some of the patterns used in building this ship.

FELLOWSHIP was nurtured and cherished throughout his entire lifetime. It implies much more than friendship, because it embraces all of that and expands to a larger circle of more closely knit associations. It includes comradeship and its program of cooperation. FELLOWSHIP has as its cargo the most lovable attribute of mankind. 'Sunny'



JOHN N. RICHARDS, F.A.I.A.

Perkins was master of this ship, indeed. It drew to him the attention of men from all walks of life. It endeared him to countless thousands. It provided for him a great stimulus to continue to increase the capacity of this ship.

While these two ships of CRAFTSMANSHIP and FELLOWSHIP were built by him, an admiring public gave him the flag ship of LEADERSHIP since he had proved his ability to be master of it. This ability opened many new channels for the sailing of his fleet. It brought the admiration of others, scarcely known to him. But with all of this, he carried on with that sense of humility which is the trade mark of a true leader. No one can question the affection with which our friend and fellow worker was held.

As has been said many times of another great leader;—

He has lived.

May the fruits of his labors live after him. The flotilla has passed over the horizon but the waves in its wake will lap the shores of our memory forever. As we draw the curtain for a tribute to a rich and beautiful life may we stand for a moment of silent prayer.

Most gracious Lord, Thou hast heard our solemn prayers, both silent and spoken. Give heed to these supplications we pray now to Thee. May the memories of his life and actions remain with us, a solace to his family and dear ones, an inspiration to all of us, a beacon to light the way to better understanding, and a reminder to walk in humbleness before Thee and all mankind. May the plans which he has spread before us enable us to build the better, and to raise our sights the higher.

Grant to us the determination to try to overcome the indifference and apathy of those around us to the Liberty and Freedom which we enjoy. Aid us to a greater realization that from Thee all blessings flow. Gird us with strength to do that which is right in Thy sight, always.

These things we ask in the name of the Grand Architect of the Universe, who hath Infinite Wisdom, Power and Mercy. AMEN.

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.

Philip 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 Raymond S. Kastendieck, of Gary, Ind., was reelected treasurer.

Elected 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. Spitznagel, 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.

AIA CONVENTION

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!

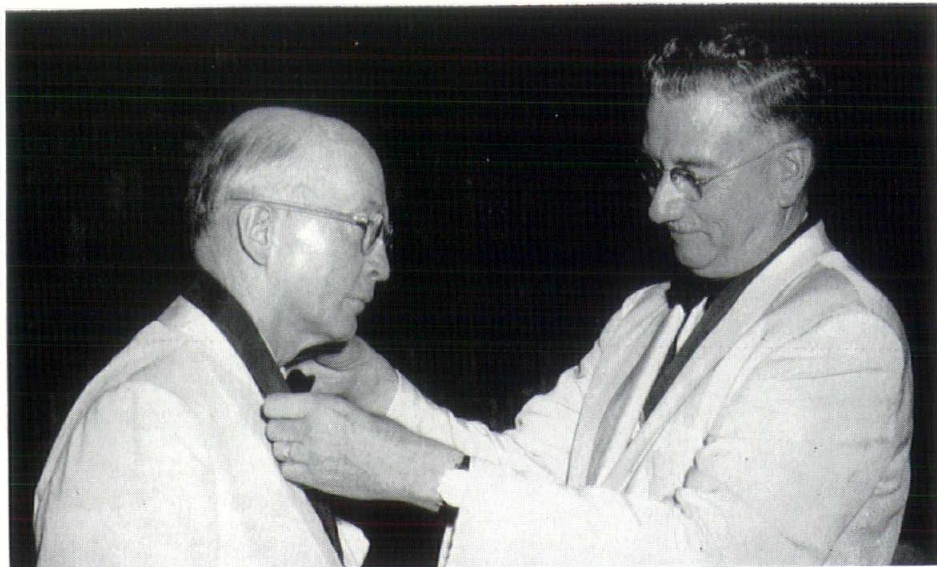
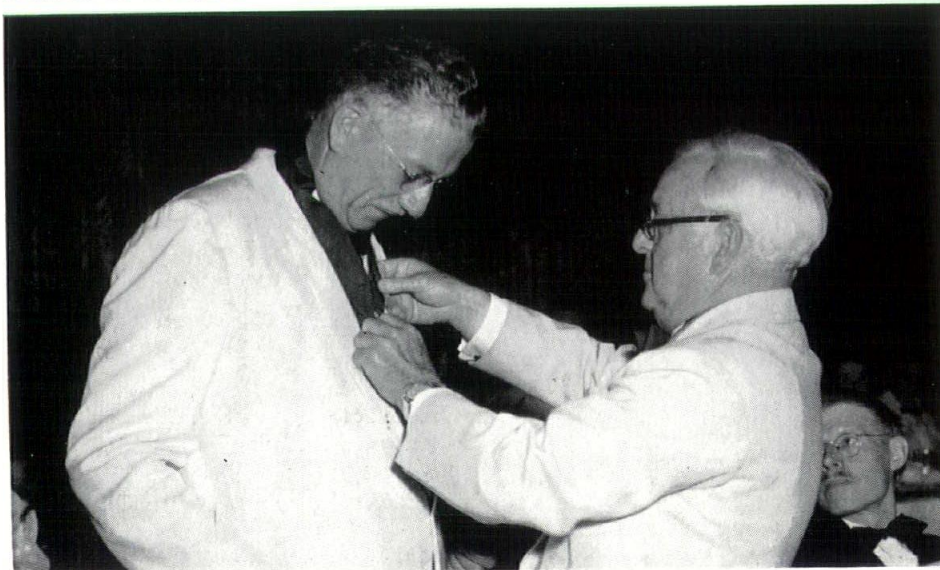
Also in Shaker Heights—there must be more fine homes there than anywhere else—we enjoyed a visit with Mr. and Mrs. Byron Dalton. Mr. Dalton began his career with Abraham Garfield son of the U.S. President.

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, with Eddie and Faith Morris as hosts, 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. Cellarins, of Cincinnati, Bursar. John F. Staub, of Houston, Texas, was elected Vice Chancellor, and Richard Koch, of New Orleans, Secretary.

Present were Ben J. Lubsch, 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., 1908; 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:

CALIFORNIA—William Leonard Pereira, John Leon Rex, George Vernon Russell, all of Los Angeles; William Clement Ambrose of San Francisco and Malcolm Dames Reynolds of Oakland.

WASHINGTON, D. C.—Angelo Robert Clas.

GEORGIA—Preston Standins Stevens, Atlanta.

KANSAS—Theodore Reed Griest, Topeka.

MASSACHUSETTS—Nelson Wilmarth Aldrich, Boston; Herbert Lynes Beckwith, Cambridge.

MICHIGAN—Louis Clifton Kingscott, Kalamazoo.

NEW YORK—Marcel Lajos 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.

Winners in the contest were Kaiser Aluminum & Sale, Inc., U. S. Ceramic Tile Co., Armstrong Cork Co., Owens-Corning Fiberglas Corp., Timber Structures, Inc., Portland Cement Association, H. H. Robertson Co., and Mo-Sai Associates, Inc.

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."

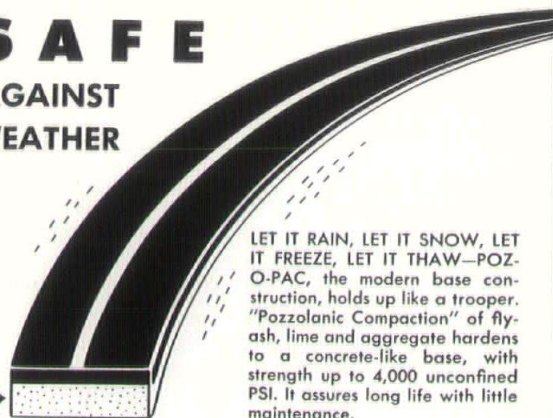
Could have been intentional, as it was rumored that Marcellus tried to get Higbee's fashion show to put signs on their models, "Not for Sale."

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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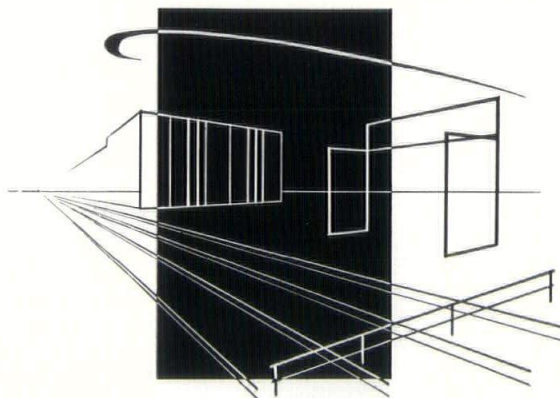
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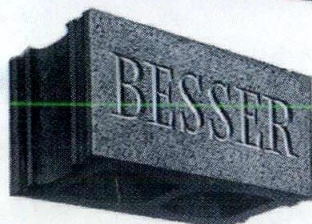


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