PANEWS REPORT

Progressive Architecture's Monthly Digest of Buildings, Projects, People and Products

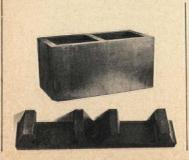
October 1966

CHAGALL MURALS STEAL SHOW AT MET



NEW YORK, N.Y. As openingnight patrons entered the new Metropolitan Opera House at Lincoln Center (see this month's P/A OBSERVER), they had two things to look at besides other patrons: to the right of what is called the grand staircase, above a restaurant area, is "Les Sources de la Musique" (above), a 30' x 36' mural painted by Marc Chagall; to the left, over the bar, is his "Le Triomphe de la Musique." Unfortunately, because of the narrow space, these can be seen only by craning one's neck, and then only in distortion. It matters little, for with their bright colors and movement they lend joy to a building that needs it. Writing in The New York Times, art critic John Canaday commented that apparently those who commissioned the murals were more interested in Chagall, who is now 80, than in what he would paint. "Chagall in return has given them an excellent summary of his virtues," wrote Canaday. "If he has repeated himself, it makes little difference. Few people have anything so agreeable to repeat, and virtually none of us who have anything to repeat will still be repeating it so happily when we are octogenarians."

#### EARTH BUILDING-BLOCKS COULD LEAD TO NEW CONSTRUCTION ERA



October 1966

Building-blocks made from common soil with petroleum asphalt binders may eventually have far-reaching repercussions in the building industry. According to the developers, the Esso Research and Engineering Company, the blocks will cost from 2¢ to 5¢ less than comparable concrete blocks.

The bulk of their raw material is available practically anywhere, in unlimited quantities, since, according to company estimates, one-third of the earth's surface and subsurface soils are suitable as raw material. The earth is prepared by blending, grinding, and heating. Binder and additive are also heated, then mixed with the earth. Esso claims that the structural qualities, freeze-thaw properties, and moisture absorption of their blocks are comparable to those of conventional materials. Its advantages include smooth surfaces and close tolerances that permit use of a special mortar. This mortar, a polyester-base, noncementitious adhesive, is more easily applied and can do the job with smaller quantities than conventional mortar. It can be applied with an ordinary paint-roller, and results in a fine, hair-line joint with a strength at least equal to the block itself. This technique results in substantial savings (up to 25¢ per sq ft, according to a company spokesman) in both labor and mortar costs.

A conventional cementitious mortar with polymeric additives may also be used.

Blocks are compaction molded and heat-cured. The end product has an inherent black color, not unattractive, which, if the block is well made, will weather evenly to a slate gray. Surfaces require 50% less paint than porous concrete block, the company claims, and need only one coat of gypsum plaster.

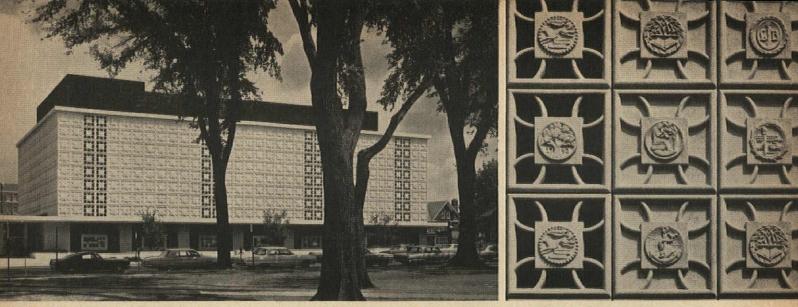
Sayre & Fisher Company of Sayreville, N.J., is the first licensee and is producing market-development quantities of the new material. Already the Building Officials Conference of America has approved the block and mortar system.

Obviously, the impact of any new material is uncertain. This product has been tested for only five years. Taken at face value, it would seem a good substitute for masonry units. But perhaps the comparisons are not so clear-cut. In an attempt at clarification, one Esso spokesman told P/A, "Our material has limitations; so do all materials."



PHILADELPHIA, PA. Arguments in the "City of Brotherly Love" grew heated over the design of the United States Courthouse and Federal Office Building (see p. 48, SEPTEM-BER 1965 P/A). Jointly designed by the firms of Carroll, Grisdale & Van Alen; Stewart, Noble, Class & Partners; and Bellante & Clauss, the buildings are to be located on Independence Mall, only a block or so from Independence Hall. Detractors of the original design were both unanimous and correct in wanting the best possible building for the site. What they could not agree on was why the original design was faulty. Most of the dissent focused on two "ears" — small projections formed by courtrooms cantilevered

PHILADELPHIA COURTHOUSE PLANS REVISED



Swanson Public Library, Omaha, Nebraska. A.I.A. Merit Award winner. / Architects: Leo A. Daly Company. General Contractor: Peter Kiewit Sons Company. / Photo by Henry F. Kuehl.

#### Look alikes? Hardly! But both are Mo-Sai® Libraries

The two example libraries shown here, both designed in Mo-Sai, are strikingly different . . . and evidence the design versatility of Mo-Sai. The Omaha library, winner of an A.I.A. merit award, used Mo-Sai panels with a white quartz aggregate in a warm buff matrix. On the Lansing library, colophons of eight contemporary American publishers were dimensionally reproduced in Mo-Sai. Where windows were desired, voids were cast into the Mo-Sai and plastic panels inserted directly into the units and backlighted for dramatic effect.

Every Mo-Sai unit is subjected to the most rigorous quality control inspection yet devised in this industry. By specifying **genuine Mo-Sai**, you take advantage of over 25 years of experience in producing the finest exposed aggregate concrete.

Central Building, Lansing School District Libraries, Lansing, Michigan. / Architects: Kenneth Black & Associates. General Contractor: Sorensen-Gross Construction Company. / Photo by Hube Henry, Hedrich-Blessing.



Mo-Sai Institute, Inc., 😭 110 Social Hall Ave., Salt Lake City, Utah 84111 Licensed Manufacturers

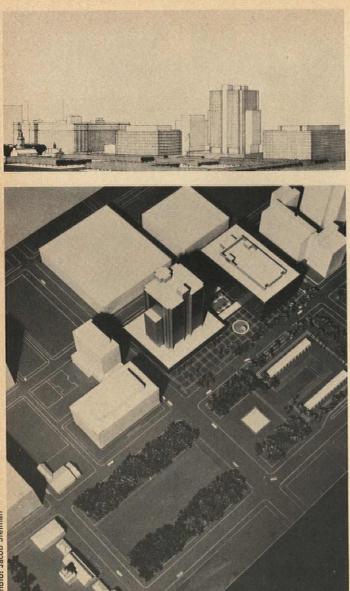
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from the building line on two sides of the courthouse.

Preserving the interior plan, which had been highly praised by the Justice Department, the architects submitted revisions both in the façade and site arrangement to the General Service Administration during the summer; the final design was accepted in August.

The building is noticeably improved by the revision. Not only is the façade cleaner and less massive, but the 10-story bulk of the Federal Office Building, linked to the 22story courthouse tower by twin colonnaded walks, balances and offsets the 10-story Rohm & Hass building to the south along the Mall. The courthouse tower rises from a four-story base, which houses services such as the U.S. marshal's offices. It is set back 145' from the street, and, because the site slopes gently about 4' from Arch Street down to Market Street, a low

wall surrounding the site was added, to help define the Federal Plaza. Although both buildings have curtain walls of bronzed steel and glass, the ground floors are walled in Colonial brick, and the courthouse has large, distinct vertical strips of brick. In a way, this ties it visually to the historic buildings in the area, and the tower provides a logical transition between the Rohm & Hass building and the Federal Office Building, lessening the impact of their combined masses.

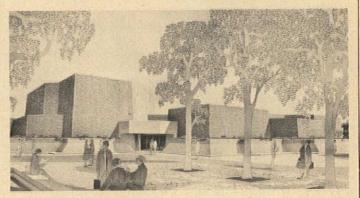
The courthouse contains 20 district courtrooms, a ceremonial courtroom, three appeal courtrooms, a library, and 40 suites, which overlook the Mall, for the Federal judges. Beneath the plaza will be a parking area for 316 cars. Arriving by car, a judge can park and take an elevator, which delivers him to a private lobby and a corridor leading to his chambers. Because of the controversy surrounding the early design, the GSA appointed a threeman panel to review the revised design. The panel, consisting of Arthur Gould Odell, Jr., James M. Hunter, and A. Grant Fordyce, was unanimous in its approval. Fordyce made this comment: "Seldom have I seen a design, which was a compromise of too many opinions, suddenly achieve an integrity all of its own. I believe that you now have a superior building. . . . This is a good demonstration of the integrity and persistence of the architects to solve the problem. . . . The relationship to the Mall is excellent."

According to the GSA, construction should begin in August 1967, with full occupancy expected in February 1970. In all, the 1,565,000-sqft project will cost a total of about \$40 million.

#### **BILLBOARDS THRIVE ON CRITICISM**

Almost nobody likes billboards except the people who own them and the people who advertise on them. That seems to be enough. In the face of mounting private and public criticism of billboards, the billboard industry announced a 3% increase in gross revenues so far this year. With a healthy income of \$221,500,000 this year, the industry talks of preparing for lean years, as fear of increasing regulations mounts. Obviously nothing succeeds like unpopularity.

#### COMMUNICATIONS/LECTURE HALL: NEW DIRECTION FOR MASS EDUCATION



STONY BROOK, N.Y. Underway on the campus of the State University at Stony Brook is this lecture hall building, the first of a two-building complex that will also include a communications center. The two structures, both designed by Meathe Kessler & Associates of Grosse Point, Mich., will form a focal point for one section of the campus. They are part of a continuing State University expansion program that will spend a projected total of \$1,300,000,000 on 31 sites throughout New York State.

The lecture hall building, and 12 somewhat similar accommodations on other campuses (the first is being used this fall at the University at Buffalo), are the outgrowth of a study on classrooms done by Allen Green and Morton Gassman under a grant from the Ford Foundation's Educational Facilities Laboratory. It will contain 12 lecture halls and two classrooms, grouped, in this case, around a central lounge area, and will be used by all the academic disciplines located in this general area of the campus. Most of these rooms will contain windows for rear-projection movies or TV showings. When completed in 1968, 1300 students will be able to attend lectures at one time.

The building is a two-story, windowless, monolithic structure whose concrete base and walls were cast in place over a metal grid of repeated diamond patterns, which are nailed to wooden forms. Once the concrete had hardened, the grid was hammered out of the concrete, giving the façade a patterned texture.

The communications building, which will shortly go out for bids, will be connected to the lecture hall below grade. "Communications" as taught at Stony Brook will emphasize television. The building will house TV studios, darkrooms, and facilities for originating telecasts to be carried by closed circuit to other buildings on campus, and, eventually, to other campuses in the state system. Also included will be audio-visual studios and facilities for arranging and processing film strips and slide shows.

Within eight years' time, the State University expects a total student enrollment of between 184,000 and 260,000. Eleven thousand of these will be on the Stony Brook campus.

**MOTHER NATURE & THE AIA** 



WASHINGTON, D.C. Long live Mother Nature. Although touted in song and verse, the craftsmanship of Mother Nature has never been formally recognized by mankind in the only way mankind has of marking excellence and noting appreciation: the granting of a formal award.

To fill this gap, the AIA Committee on Institute Honors suggested to the Institute's Board of Directors that Mother Nature be given a Special Craftsmanship Award at the 1966 convention. It was an earnest proposal. But the AIA turned it down.

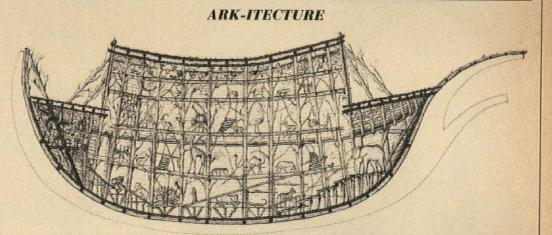
Speaking for the Committee, Seattle architect Fred Bassetti commented: "When we first thought of proposing Mother Nature, we considered it a joke, but the more we worked on it and collected examples, the more we decided it was serious and hoped the Board would rise to the occasion." To support their case, the Committee submitted a brochure of color photographs illustrating the works of nature: birds, flowers, water, etc. And they suggested this citation:

"For her myriad variety of works, unexcelled on earth, reflecting the various conditions of herself and life, responding to the sun and rain, infinite in detail, graceful in the toll of time, an inspiration to all those who call themselves craftsmen, indeed, to all those who call themselves alive, a craftsman unsurpassed, a giver bountiful beyond our capacity to ask;

"For the 1966 AIA Special Craftsman's Medal — Mother Nature. As proxy, this award will be accepted in person by Sophia Loren."

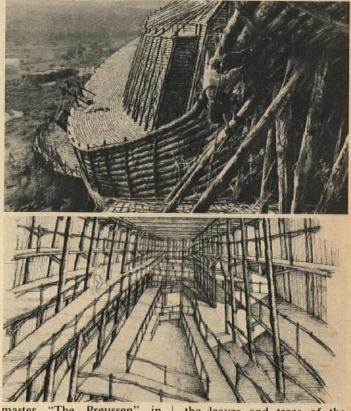
Giving awards to goddesses

is, at best, a tricky thing; and while the Committee is to be commended more for its enthusiasm than for its practicality, no one can quarrel with its choice of the mortal to be the goddess's earthy representative. She would have added a heady note to the AIA convention. She is shown here climbing a ladder from the terrace of her Paris apartment.



HOLLYWOOD, CALIF. "And God said to Noah... 'Make yourself an ark of gopher wood; make rooms in the ark and cover it inside and out with pitch. This is how you are to make it: the length of the ark three hundred cubits, its breadth fifty cubits, and its height thirty cubits. Make a roof for the ark and finish it to a cubit above; and set the door of the ark in its side; make it with a lower, a second, and third decks."

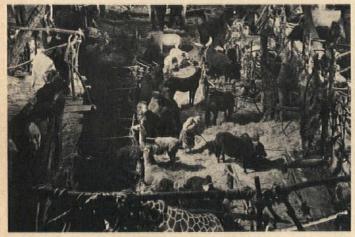
The Lord was fairly specific in granting Noah one of the world's most prestigious commissions. But when 20th Century Fox set out to build a replica of the ark, for its film The Bible, which had its world premiére in New York on September 28, they were baffled; for no plans have survived the centuries. The ark they constructed adhered to the original only in spirit. Actually, five arks were built, the largest of these, measuring 200' long, 64' wide, and 50' high, was put up on the back lot of the Rome studio of Dino De Laurentiis, the film's producer. These measurements made it less than half as long as the original, which measured 500' long, 83' wide, and 50' high; Noah's ark was the largest ship built until the Germans launched the five-



master "The Preussen" in 1902.

Art Director Mario Chiari, who has an architectural degree from the University of Florence, based his design of the ark on the pictures of the earliest boats found on friezes and tombs in the Middle East. But he conceived the ark as growing quite literally out of the leaves and trees of the forest in which it was built. And although it has gracefully curved lines, it is crudely built, because Noah had no experience as a shipbuilder.

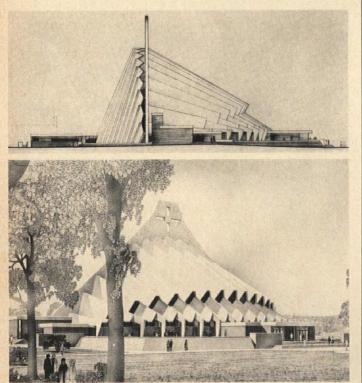
The largest of the four smaller arks was built for interior shots. As Noah had been instructed, it was three stories high, with individual pens ("nests") for the animals. A great ramp circled the interior of the 68'-high model, so Noah and his family could rector John Huston and his camera to any desired position. The whole effect is of a vast Piranesi interior come to



tend their menagerie. Structured entirely of undressed tree trunks and limbs, its only concession to technology was a ceiling-high well with an automatic elevator, to lift dilife in wood.

In all, the ark cost almost \$1 million, something Noah, whose work was for the love of God, would have little understood.

#### **MODERN PRAIRIE CATHEDRAL**



ROCKFORD, ILL. So far, four years of design planning have gone into the proposed cathedral for the Rockford Diocese of the Roman Catholic Church. Most of the work has centered on the preparation of a plan that would fit the revised liturgy, and the architect — Brother Cajetan J. B. Baumann — and his staff have prepared a 15-page Liturgical Brief, developed from research into current and historic documents on church buildings.

Brother Cajetan's design gives the cathedral a strikingly contemporary facade, one which he thinks not only appropriate but mandatory. "A cathedral in any historic style, as was the custom until very recently, should be absolutely out of the question," he states. "No, not a Byzantine style, not a Gothic style, nor a Renaissance style, because these were the modern styles of their day — the 7th, 12th, and 15th Centuries. We are in the 20th Century and the church deserves better than a secondhand rehash of the great efforts of another century."

Located on a prominent, partly wooded site, the cathedral will open onto a broad atrium, thought of as an area of repose from which one enters. No roads will cut in front of it. Both to provide a distinct setting and to define the area clearly, the cathedral will be set on a low, pedestallike platform. A series of steps lead into the low-ceilinged baptistry, which in turn opens onto the ambulatory and the major space of the church (some 96' at its highest point above the raised altar). Here, as Brother Cajetan points out, approximately 1400 parishioners can surround the "bishop in the midst of the church as he opens his mouth in speech and feeds his flock with teaching and with the Eucharist bread."

On the exterior, the church roof flows down from a central arch 135' high. Sixteen ribs of reinforced concrete will support the fluted roof elements, and both the concrete and the brick bearing walls will be exposed inside and out. Slanting to the ground behind the arch, the south wall will have 17 folds. A row of overhead windows surrounds the main section of the cathedral and a series of skylights are cut into each of the folds of the south wall.

Budget for the cathedral is \$2 million. Raymond F. Pavia is associate architect.

#### THE SEASON IS ART



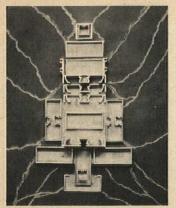
UNIVERSITY PARK, PA. Edward A. Adams, associate professor of art at the Pennsylvania

State University, spent five years perfecting a wind structure — a tower of 81 polished aluminum rods arranged in two concentric circles, anchored at the base and open at the top. Although he has only a 12' model now, he envisions a wind tower rising 40' swaying in the breeze. "The idea of the wind structure occurred to me when I was asked by a church group to design a bell tower," Adams explains. "From the beginning, I felt that sound could inherently be a part of the tower, but it was not clear to me how it could be done." The sounds that come from Adams' tower would depend on the strength of the wind, and he is considering trying to control these sounds by varying the length of the tubes.



NEW YORK, N.Y. As a little girl, Ruth Maria Kilby was fascinated by light coming through bits of colored glass. She still is. But since about 1946, she has indulged this fascination by fashioning picture-sized paintings in fused glass. The photograph above, while showing some of the variations in texture and brightness seen in her creations, gives none of the depth and richness and, of course, none of the color. Working directly in glass, without the aid of preliminary sketches, she builds layer by layer, using a sometimes bewildering array of shapes and sizes - chunks of glass, strips of glass, sheets of glass, chips of glass, crushed glass. Although her early work was representational, mostly landscape, it is now entirely abstract. All pictures are backlighted. Her work is on display through October 22 at New York's Bodley Gallery.

NEW YORK, N.Y. Don S. Lewis is an art gallery owner in Norfolk, Va., who is also an artist. Last month, Manhattan's Galerie Internationale displayed a collection of Lewis' work. He works in structural materials — metal, plaster, concrete, wood — and gives many of his "cloutages," as he calls them, a patina of colored,



#### glossy plastic.

Shown here is a 19" x 26" cloutage, formed by embedding an arrangement of sliced aluminum castings in concrete. Lewis calls it "The Great Society" and says the aluminum sections form a Christmas tree. But it could just as well be a computer, or some other symbol of a mechanized society.

#### ARCHITECTS' TOURS TO THE MIDDLE EAST

"Visit the cradle of our civilization," says the travel brochure. And that is what participants in the Architects Grand Air Treks will do during the fall and winter. The tours, whose itineraries will include Athens, Cairo, Beirut, Damascus, Jerusalem, Baghdad, Luxor, and Aswan, have scheduled departure dates of October 28 and December 16, 1966, and January 27, February 24, and March 31, 1967. United States Travel Agency, Inc., who are arranging the tours, points out that the trips have tax-deductible features for members of the architectural and construction fraternities, in that the tours include a visit to the Aswan High Dam and present the opportunities to meet architects in the various countries. Each touring group will be accompanied by an architectural historian. For further information write: United States Travel Agency Inc., 807 15th Street, N.W., Washington 5, D.C.

#### COMMUNITY PLANNERS MUST REGISTER IN MICHIGAN

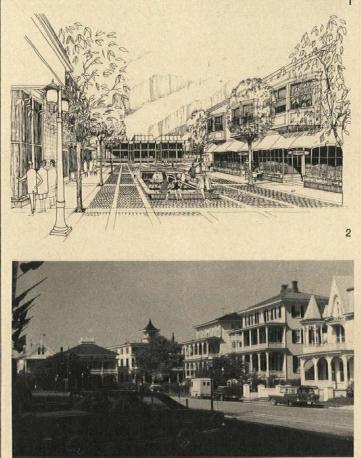
LANSING, MICH. During the summer, Michigan became the second state in the Union to require the registration of anyone who wishes to use the title of "Professional Community Planner." or "Community Planner." The Michigan law is not as tough as the one passed recently in New Jersey. For one thing, it does not prohibit anyone from doing planning work; he merely cannot use the title "Community Planner" without risking a fine of not more than \$500 or up to 90 days in jail, or both. For another thing, although the law calls for a registration examination, anyone who has done planning work for six years (up to four of which may be accounted for by academic degrees) can register within the next two years without taking the exam. Furthermore, the act prohibits anyone registered as a community planner from practicing architecture, engineering, or land surveying unless registered.

VICTORIAN RENAISSANCE

CAPE MAY, N.J. In 1960, the population of this small resort town on the Jersey coast was 4477. This was not much more than it had been 10 years earlier, and it has not changed much in the last six. But despite its lack of size, Cape May contains one of the largest assemblages of Victorian architecture in the U.S.

As early as the last part of the 19th Century it was a fashionable resort, but in the intervening years many of the





older structures there have deteriorated sadly. The rundown house shown (1) was once a guest house for the Stockton Hotel, and in the 1890's rented for the season for \$2000. When the hotel was

torn down in 1910, these houses were sold to private owners, and are today in various states of repair.

Under a broad urban renewal program — the Victorian Village Renewal Project — initiated by concerned citizens and backed by the Federal Government, work is now underway weeding out buildings found structurally unsound and restoring buildings that have historical or architectural significance. All work follows a master plan drawn up by planning consultants Kendree & Shepherd of Philadelphia.

As a first step, the city's Urban Renewal Agency undertook several surveys. One reviewed the historical



significance of each structure in the area. Another investigated structural conditions, made suggestions about specific repairs, and estimated costs. Finally, families living in the area were consulted about preferences and finances, and sketches and floor plans were drawn to illustrate changes and detail costs.

When the project has been completed, one street will have been turned into a pedestrian mall, a new library will have been built (2), parking will have been provided on the area's periphery, and many homes and several hotels will have been rehabilitated.

Already several homes have been restored (3, 4), and a shopping center constructed on cleared land. A competition is also under way for a motel.

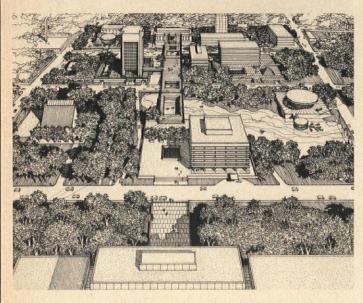
#### OBITUARY

Carroll Louis Vanderslice Meeks, professor of architecture and art history at Yale University, died in late August in New Haven. He was 59. Meeks, who had degrees from both Yale and Harvard, spent his entire teaching career at Yale, and is credited with much of the development of the School of Art and Architecture there. He was an authority on the 17th and 19th Centuries, and the author of two books: *The Railroad Station* and *Italian Architecture*, 1750–1914. A past president and a director of the Society of Architectural Historians, Meeks was also chairman of the AIA's committee on the preservation of historic

#### buildings.

A respected scholar, Meeks in recent years came to be thought of as the "Mr. Chipps" of the architectural department. In 1948, he studied in Europe on a Guggenheim Fellowship, and spent the academic year 1951-52 studying 19th-Century architecture in Italy.

#### CHARLOTTE IS PRACTICAL ABOUT HER BEAUTY AIDES



CHARLOTTE, N.C. Like many cities its size, Charlotte, which had a population of slightly more than 200,000 in 1960, expects to double in size by 1985, and to approach a million by the turn of the century. Because of the foresight of the city-county governments and the planners who work with them, this growth will not be entirely haphazard. Back in 1958, the Charlotte-Mecklenburg Planning Commission selected a site adjacent to the existing City Hall and County Court House for a proposed Governmental Center. The site was largely run down, an area by-passed as the city expanded beyond it: today, these 60 acres have been cleared and graded, as a three-phase program for its development gets underway.

This program was prepared and is being coordinated by the Charlotte firm of J. N. Pease Associates. What will result, if the plan can be successfully guided through the vagaries of political change, will be an area that serves as a focal point for the city's expansion, an area almost as much park as a location for government buildings. In preparing their report, the planners worked with both the Redevelopment Commission of the City of Charlotte and with the Charlotte City Council and the Mecklenburg County Commissioners. These last two groups will implement the plan and provide funds for constructing the buildings. Each body will be responsible for the specific plans for buildings under their jurisdiction.

Briefly, the plan is this. During Phase I, already underway, a jail, a building for a law enforcement agency, and one for an education center will be completed. Date for their completion is 1970. Also by 1970, a raised pedestrian mall will be constructed, linking the County Court House to the north with a parking plaza to the south. According to the Pease plan, the roof of this south parking plaza would become a landscaped mall from which the Education Center would rise. However, the plan details none of the specifics of the buildings; these are left to the agencies who will own them and the architects they hire. In all, parking will be provided for 1500 cars. Streets in the area will be designated and constructed, and, perhaps most important, landscaping will be developed. It is hoped that a lake and two small ponds can be included; indeed, the plan will be drastically harmed if they are not. Feasibility studies on these have not yet been completed.

In Phase II, to be completed by 1985, a new city hall, an addition to the county office building, and a Federalstate office facility will be added. Germane to this phase is construction of a civic and cultural building, which would continue expansion of activities in the area and give it greater use at night. Finally, by the year 2000, a branch library will go up, a county office building addition will rise from the top of the east parking facility, and the landscaping, including paths and special plantings, will be completed.

As its final recommendation, J. N. Pease Associates call for the establishment of a Governmental Center Commission to establish definite guidelines and controls and see that they are followed. With this commission, which must have a vast store of architectural and civic awareness, will rest the future of the plan and perhaps of downtown Charlotte.

Working with J. N. Pease Associates on the project were Charles DuBose of Hartford, Conn., and Richard C. Bell of Raleigh, N.C.

#### HERE COME THE TOURISTS!





PITTSBURGH, PA. A fort was probably the first structure you ever worked on. It was before you thought of becoming an architect or engineer. You were probably about five. Forts are beautiful in their simplicity. And they provide a sense of security.

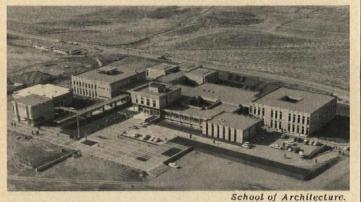
Architect Charles M. Stotz, of Stotz, Hess, & MacLachlan of Pittsburgh, is lucky enough to be working on a fort — or at least the reconstruction of one — right now. He has been since 1947.

Fort Ligonier was built in 1758, during the French and Indian War, as a depot or "post of passage" for the troops of British General John Forbes just before they attacked and took Fort Duquesne, on the present site of Pittsburgh. But by 1766, the wooden fort had suffered the ravages of weather and insects and had to be abandoned.

After archaeological and historical research, Stotz drew up plans for the fort's restoration, and a portion of the stockade was put up in 1953. Since then, Stotz has made two trips to England (in 1961 and 1965) to look for engineering drawings of the fort made in 1758. He found three sets, and work is now going on with virgin white pine timber, treated for preservation. Completion of the entire fort is scheduled for 1967. Paul Mitchell, a Latrobe,

Pa., architect, is local representative for Stotz, Hess, & MacLachlan. The contractor is Movher & Schultz.

#### THE DESIGNING CINICIS







ANKARA, TURKEY. In 1923, when Kemal Ataturk, the founder of modern Turkey, made Ankara the capital of Turkey, it was a small town of about 25,000 persons, clustered around a fortress. It now has 800,000 inhabitants, who are more attuned to the theaters, concert halls, and opera in the city than to the citadel, which still stands above it.

With the construction of the Middle East Technical University on open land outside the city, Ankara gains a valuable cultural addition. An interior view.



An interior view. The University design stems from a 1961 competition won by a husband-and-wife architectural team, Altug and Behruz Cinici, who are supervising construction. One of several buildings now in use is the School of Architecture (shown), which provides classrooms, offices, library, and auditorium for 600 students and faculty. From any one point on the outside, it is im-



View from the entrance courtyard.

possible to read the building as a totality; it is a multi-faceted structure whose constituent parts and details only reveal themselves gradually as the viewer moves around it. On the interior, the floor plans consist of many cul-de-sacs sprouting from a central finger of courtyard, entrance hall, and faculty offices. Writing of the building, the German magazine Baumeister commented: "The construction of the School of Archi-

tecture is perhaps so interesting because here the additive principle has been carried much further than it was by Paul Rudolph in his architecture building at Yale University. There, too, the outer structure is a mountain of layers, cuts into the surface. etc., and the inner construction is equally labyrinthine, but a labyrinth made of a sequence of coherent rooms. On the contrary, in Ankara, single rooms hang on the end of this net of halls; everything works like a centrifugal system of dead ends connected to the outer world by the thin thread of the main entrance." Yet the plan in Ankara is much more logical than the one at Yale, the spaces more open, while being equally full of surprises; on the other hand, the exterior concrete work is less plastic, more repetitively rigid.

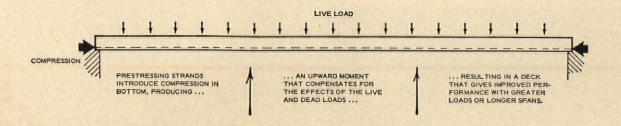
Behruz Cinici is a 34-yearold architect trained at the Technical University in Istanbul. His projects include shopping centers in Ankara and Istanbul, a business center, and two large office buildings. Although attracted by design rationalism, Cinici expresses himself in buildings that are far from static; and although his heritage is Eastern, his style is heartily Western.

#### **A PYLON TOO FREQUENT**



GLENDALE, CALIF. Probably the most striking aspects of the recently completed Municipal Services Building here are the four massively spreading pylons that hold it 21' above street level. At the same time, this stiltlike arrangement merely lets a passer-by see beneath the building to parking lots and streets bevond. The landscaped interior courtyard, which, with its

elaborate fountain, might have alleviated this view, is sunken below grade. From a distance, the three upper levels, with their white concrete precast curtain wall panels, may be striking enough to hold one's attention. Taken by itself, it is a diverting building, and is especially appropriate in its striking design, for it will house city departments whose responsibilities include



## New HI-STRESS DECK gives you benefits of prestressed concrete along with high-speed construction.

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Fourteen-story Dell House Apartments, Baltimore, Md., used 70,000 sq. ft. of Hi-Stress Deck on a lightweight steel frame.

building, engineering, planning, zoning, and publicworks administration. Architects for the 55,000-sq-ft building were Merrill Baird and Albert C. Martin & Associates. Total cost was \$1,800,-000.

#### ARCHITECT HERO OF TV SERIES



NEW YORK, N.Y. With the advent of the new television season, only one regularly scheduled series has an architect as its star. It is ABC's "Love on a Rooftop," starring Peter Deuel as the "apprentice architect" and Judy Carne as his pixie-like wife. In the opening episode, the architect meets his wife-to-be by dropping his ham sandwich from the second story of a construction job into her pocketbook ("Pardon me, you have my lunch"). Once married, they take up residence on the top floor of a San Francisco building, in an apartment with no windows. This lack of architectural perception is covered by a story line that ignores architecture and makes the "apprentice architect" into the earnest befuddled male that all TV husbands must be.

#### AWARDS GO TO SEVEN MEDICAL CLINICS



SAN DIEGO, CALIF. Seven medical clinics were honored for their architecture last month in an awards program sponsored jointly by the AIA and the American Association of Medical Clinics. It was the first time such a program had been held; and because the building type — a structure designed for the group practice of at least seven physicians — is relatively new, medical clinics built in the U.S. since 1960 were eligible.

The McFarland Clinic in Ames, Iowa, won the only First Honor Award. It was designed by Crites & Mc-Connell of Cedar Rapids for

uilt in the sign." ere eligible. Six othe d Clinic in Awards of the the only rd. It was clinic in H es & Mc- signed by

the group practice of 20 doctors. In part, the jury comment said: "The well-organized plan is particularly noteworthy for the efficient arrangement of the central core of laboratories and services with the offices and laboratories around the perimeter. Each office looks upon a private and pleasant terrace, which adds interest by light and shade to the exterior design."

Six other clinics received Awards of Merit. These are: the Kelsey-Leary Seybold Clinic in Houston, Texas, designed by Wilson, Morris, Crain & Anderson of Houston; the Samuell Clinic in Dallas, Texas, designed by Tie Davis-J. Murray Smith of Dallas; the Sunnyvale Medical Clinic of Sunnyvale, Calif., designed by William L. Carmen of Palo Alto, Calif.; the Lakeshore Medical Clinic of Kirkland, Wash., designed by Cummings & Martenson of Kirkland; Putnam Professional Park, Mahopac, N.Y., designed by Lee Harris Pomeroy of New York City; and the Community Health Foundation, Cleveland, Ohio, by Robert A. Little & George F. Dalton & Associates of Cleveland.

Jurors for the program were Charles M. Nes, Jr., AIA president; Francis D. Lethbridge, Washington, D.C. architect; and Dr. Bliss B. Clark, director of the New Britain (Conn.) General Hospital.

#### SWENSON'S BODY SHOP



BATAVIA, N.Y. Part-time sculptor Joseph Swenson believes that form should be both functional and evocative. The larger-than-life-size, glassfiber figures shown here are really pieces of furniture. Used as a chair (1) or a couch (2), Swenson figures his forms will fit a human being better than most conventional furniture does. They are, in addition, decorative, or at least eye-catching.

"What about comfort?" some old grouch might ask. Sitting on a glass-fiber form may not be as comfortable as sitting on, say, a live Rubens model. Swenson, who makes his chairs in his garage, acknowledges this comfort gap. He has plans for switching to foam rubber.

#### P/A DESIGN AWARDS JURY MEETS

NEW YORK, N.Y. For two days, September 19 and 20, five jurors pored over 650 entries in P/A's Fourteenth Annual Design Awards Program. This year's jurors were: David Crane, Edward Dart, Sepp Firnkas, Charles Moore, and Joseph Passoneau. Award winners were notified immediately by wire. Results will be published in the JANUARY 1967 P/A.

#### PERSONALITIES

The last two Presidential appointees to the top-level staff of HUD are Don Hummel and H. Ralph Taylor, Assistant Secretaries for Renewal and Housing Assistance, and Demonstrations and Intergovernmental Relations, respectively. Hummel's post covers loans for rehabilitation, housing for the aged and handicapped and college housing. He will also be responsible for urban and community improvement programs, relocation standards, and coordination of social service activity programs. Taylor will administer the Demonstration Cities program and coordinate comprehensive planning techniques, codes and zoning, training programs, and intergovernmental relations . . . Charles Luckman has been elected to the National Board of Governors of the Library of Presidential Papers in New York. The library, founded only last year, is intended to encourage young people to enter politics by making available to students all obtainable papers, books, films, and other types of material pertaining to U.S. Presidents, past and present. The privately supported



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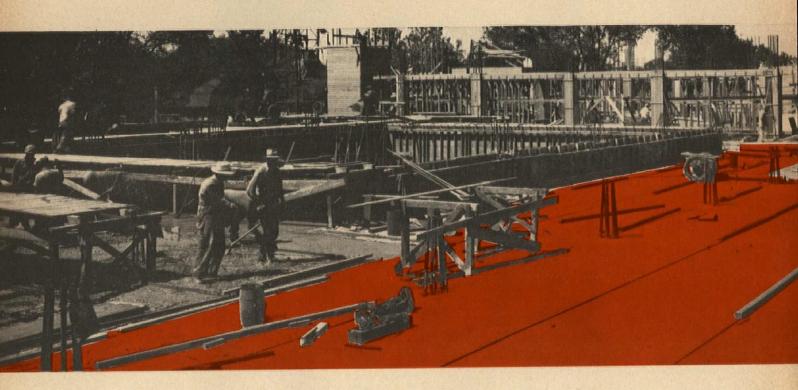


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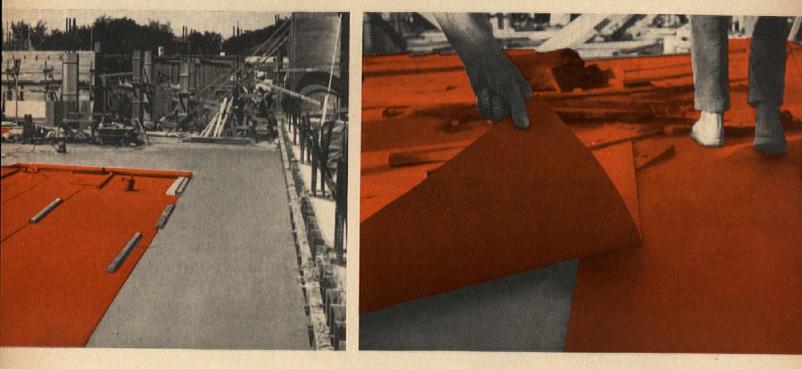
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foundation will be housed in the former Warburg mansion, which will contain quarters set aside for the use of the President, Vice-President, and their assistants, or any living former presidents . . . John Vance and Robert Einsweiler are replacing C. David Loeks, who held the position of Director of the Metropolitan Planning Commission in Minneapolis-St. Paul from its inception until his resignation in June this year . . . Planning to open an architectural office in Frankfurt after his release from West Berlin's Spandau Prison next month is Albert Speer, 61, former Nazi armaments chief. He is one of the last prisoners to be held under conviction of Nazi war crimes there . . . Gene R. Schaefer, Director of the Westinghouse Air Brake Company Mass Transit operations, has received an appointment from Robert Weaver to HUD's Transportation Advisory Committee. The committee has been newly formed to work in conjunction with Assistant Secretary Charles M. Haar of the new cabinet Department of Transportation ... Ted A. Niederman, a young member of the Baltimore architectural firm of Rogers, Taliaferro, Kostritsky, Lamb will spend four months working and studying with the Tokyo firm of Kenzo Tange. Rogers, Taliaferro, Kostritsky, Lamb has commissioned Niederman to report on current trends in Japanese architecture.

At a Founder's Day convocation, Paul Rudolph, architect of the Charles A. Dana Creative Arts Center at Colgate, received an honorary Doctor of Fine Arts degree from the University. In part, the citation read: "When, in 1962, a Center for the Creative Arts became practically possible at Colgate, all concerned hoped it would not only provide desperately needed facilities for study and teaching in the arts, but become in its own right a fitting example of creative art as well. The choice of Paul Rudolph as architect insured the fulfillment of these hopes. The building he designed . . . adds artistic luster to our campus. Far from merely 'drawing' plans to accommodate teaching programs, Mr. Rudolph, by the bold and imaginative use of materials and spaces, combined form and function into an artistic whole —'full of surprises but always logical.'"

#### HEADQUARTERS FOR GEORGIA PACIFIC SPROUTS IN PORTLAND



PORTLAND, ORE. When completed in September 1969, the Georgia Pacific building will be, at 27 stories, the tallest commercial structure in Oregon. Designed by the Portland office of Skidmore, Owings & Merrill, the tower will rise from a full-block landscaped plaza above a concourse of shops. Despite its height, the 365' Georgia Pacific building will not seem out of place along Portland's skyline, for it will be in a line with the Hilton Hotel, (another SOM design), which is 309' high, and the Public Service Building, 286'.

Georgia Pacific plans to occupy only 5 to 10 floors, leasing the remaining space to other firms. Construction of the 97' x 158' tower, which will cost more than \$10 million, will get underway in 1967.

#### AWARDS

Lavette Cox Teague, Jr., a graduate research assistant at MIT, has received the \$6000 Brunner Research Award for computer study. The award was made by the AIA, New York Chapter, and is the largest sum ever to be awarded in connection with the Brunner prize . . . Also awarded by the New York Chapter, AIA, was a \$2000 grant-in-aid to architect Simon Breines of Scarsdale, N.Y., for the preparation for publication of a previous Brunner award study on "Pedestrian Islanding" The city of Camden, N.J.,

has received an award from the American Institute of Planners in recognition of its "vast and dynamic design" for rebuilding and renewing major portions of the city. Credit went to Willard Cooper, Coordinator of Planning and Renewal. The only other area to receive an award in the competition, which usually makes awards in several population categories, was the Capital Region of Connecticut. This was the first award made to a metropolitan area. The region is composed of 29 towns, all but one of which have their own planning boards and city plans. Winner of the annual President's Plaque of the American Public Works Association was the Washington State Chapter this year. President Robert S. Hopson presented the plaque to Robert G. Anderson, Tacoma engineer and head of the Chapter. Important in the choice of the Washington Chapter as recipient of the award was its revision of its "Standard Specifications for Municipal Public Works Construction.' Among those lauded at the AIA convention and previously unlisted in this column are Edward J. Logue, development administrator of the Boston Redevelopment Authority, and Albert Bush-Brown, president of the Rhode Island School of Design. Both received honorary memberships for "distinguished service to the profession by a layman." AIA Honor Awards went to Keyes, Lethbridge & Condon of Washington, D. C., for Tiber Island, and to Eero Saarinen & Associates of Hamden, Conn., for Dulles International Airport and the CBS headquarters building in New York City . . . The Office of the Year Award, presented annually by Administrative Management Magazine, went to the Rohm & Haas Company building in Philadelphia. The George M. Ewing Co. was architect and engineer of the building . . . The \$4000 J. Clawson Mills Fellowship in landscape architecture,

awarded by The Architectural

League of New York, went to

Robert G. Reimann, an in-

structor in landscape architec-

ture at Syracuse University ...

The James F. Lincoln Arc-

Welding Foundation of Cleve-

land, Ohio, has announced the

winners of its annual student

design competition. First award winners were Virgil Rasmussen and Donald C. Nelson of South Dakota State University for their paper on the design of a building using long spans without intermediate supports, and Charles C. Lozar of MIT for his design of a sheet metal space frame . . . The National Institute of Arts and Letters recently presented Romaldo Giurgola this year's Arnold W. Brunner award. The award is given annually to an architect who shows promise of contributing to architecture as an art . . . Winners of the National Association of Architectural Metal Manufacturers' Student Design Competition are James Robert Brock, J. C. Wang, and D. Sweet, all from the University of Illinois . . . John Storrs, principal in the Portland (Oregon) architectural firm of John Storrs & Associates, was recently awarded the Wood Structure Design Award of the National Forest Products Association. Storrs received the award for his work on the Salishan resort and convention center on Oregon's Pacific Coast . . . The American Society for Church Architecture awarded its Fellowship Award to Charles Edward Stade of Stade, Dolan & Associates of Chicago . . . At the first annual presenta-tion of the New York State Awards, Corning Community College, designed by Warner, Burns, Toan & Lunde, and The Syracuse Savings Bank, designed by Harry A. King, were among the eleven honored "for outstanding contributions to the physical and artistic enhancement of New York State" . . . Among those receiving honorary degrees at Illinois Institute of Technology's commencement in June was Mies van der Rohe, who headed IIT's department of architecture from 1938-1958 and was responsible for the original campus plan and many of the Institute's buildings . . . William F. Brenan, specifications writer of the Detroit architectural, engineering, and planning firm of Smith, Hinchman & Grylls, has received the first award in the annual competition of the Construction Specifications Institute for his work on the Crittenton Hospital in Detroit . . . Leo Peter Dahl, a fourth-year student at

October 1966

Auburn (Ala.) University's School of Architecture, has won a \$1500 travel grant from the Alabama Gas Corpora-tion ... Michael R. Foil, also at Auburn, won the Alabama Concrete Industries Association design competition . . . Robert E. Simon, Jr., de-veloper of the new town of

Reston, Va., has received the first medal of Urban Pioneer from the Department of Housing and Urban Development . . . Walter A. Netsch of Skidmore, Owings & Merrill was recently presented with the Total Design Award of the National Society of Interior Designers.

EIGHT HOUSES TO A FLAT

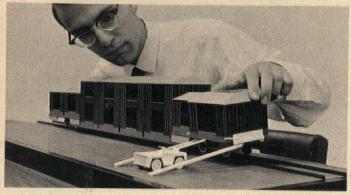


Photo: Authenticated News International tion personnel, or by the mili-

STANFORD, CALIF. Last June, Robert L. Wendt received a master's degree in art from Stanford University. His undergraduate degree is in architecture, and his aspirations seem to lie in an interdisciplinary area that is often given lip service but seldom concrete thought.

As part of one of his graduate courses, Wendt designed a vacation home that can be wheeled onto a railroad flatcar, shipped to its destination, then trundled off and rolled to a vacation site. Nor do these homes have to be just for vacationers. With modifications, Wendt feels, they could be used by migrant farm workers, by lumberjacks, by miners, by construc-

tary. His design shows eight cabins carried by each flatcar. Half of these are one-story cabins that can hold three persons. Half are two-story units with accommodations for seven. Each cabin would, of course, be self-sustaining. Refrigerator, stove, water heater. air conditioning, toilet facilities, and lamps would all operate on bottled gas. There would be enough water and fuel to last about a week.

Wendt envisions his cabins, which have sliding glass doors on both sides, as suited to glass-fiber and steel construction. Initial talks with railroad officials made Wendt optimistic about the future of his project.

tectural consultant. Professor

Newton, who becomes

Professor of Landscape Ar-

chitecture, Emeritus, long

practiced landscape archi-

tecture before joining the

Harvard faculty in 1939, and

has written books on design

and other subjects. Known for

his involvement with Federal

planning and resource agen-

cies, Professor Eliot is also a

planning consultant for towns,

cities, and larger areas. He has

been Professor of City and

**Regional Planning since 1959** 

. . . A candidate for the Uni-

#### **SCHOOLS**

Retiring from the Harvard Graduate School of Design are Walter F. Bogner, Norman T. Newton, and Charles William Eliot, 2nd. Professor Bogner was a member of the team of Harvard professors who won the "Boston Prize" in 1944 for a master plan for the development of greater Boston. He was also instrumental in the planning of the Back Bay Center project, a proposal for a business center over the Boston and Albany railroad yards, and conducts a private practice as an archi-

October 1966

On Readers' Service Card, Circle No. 408

DETROIT, MICH. If the citizens of Detroit agree to back an astounding \$60 million bond issue, the city will have a new metropolitan stadium, located on the Michigan State Fairgrounds. As designed by the firm of Louis G. Redstone, the stadium, which is now in working-drawings stage, will provide 63,000 seats for baseball and 67,000 for football. It will also have facilities for track and field. (For years,

turers will be leading real estate men, who will base their lectures on actual cases. David Tishman, William Zeckendorf, Jr., Max Wechsler, and Sol Horowitz are among speakers scheduled to discuss such topics as "Building Costs," "Conflict Between the Builder and Architect," and "Appraising the New Building." More information may be obtained from The Management Institute, New York University, 10 E. 8th St., New York, N.Y. 10003.

#### **METROPOLITAN STADIUM FOR DETROIT**

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ing and Construction" has been instituted at New York

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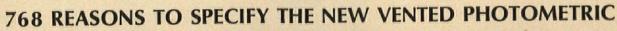
cessfully to attract the Olympic Games.) Movable seats on runners will slide out over the track when it is not in use. Also included in the design is a translucent roof system, supported by an exterior steel grid, in an attempt to avoid the difficulties with vision that the individual skylights in the Houston stadium gave spectators there. The span of the dome will be about 620', and its height above the playing field 270'.

#### **COMPETITIONS**

The American Iron and Steel Institute has announced its Design in Steel Awards Program, sponsored by the steel industry. Eligible are all practicing individuals or teams of professionals in the fields of architecture, design, and engineering in the Americas. The jury will be composed of nine professionals - three designers, three architects, and three engineers, and will consider entries in the categories of consumer products, industrial products, commercial equipment, automotive products,

Detroit has been trying unsuc-

residential construction, lowand high-rise commercial, industrial, or institutional construction, and public works construction. The program is coordinated by the National Design Center, 415 E. 53rd St., New York, N.Y. Deadline for entries is midnight, January 27, and judging will take place February 2 and 3 at the National Design Center. Details, including the definition of categories and criteria, will be published soon in a brochure to be distributed by the AISI.



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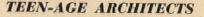


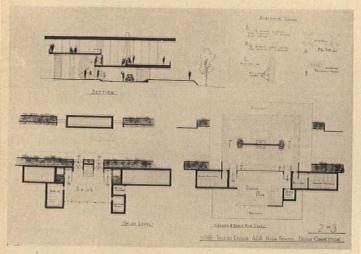
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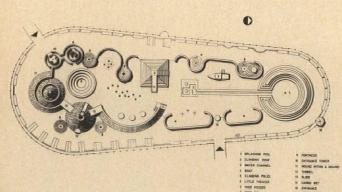


TOLEDO, OHIO. One of the most worthwhile things the AIA does for the profession is to stimulate young students to study architecture. Often, this activity is undertaken by the local AIA chapters, but the problem is a big one and the funds and resources of the local chapters are limited. For 16 years, the Toledo chapter has sponsored a design competition for high school students. It was a modest program until, in recent years, the local Edison Company became a joint sponsor. Now, with more substantial resources behind it, the competition can attract more talent and more attention.

The Edison Company puts up a \$500 scholarship for the senior winner, a \$75 merchandise award for the best electrical design, and foots the bill for the awards banquet. The Toledo chapter puts up the \$150 second prize, and offers the services of 15 or 20 architects who visit local schools to set up the competition. Each February, students are given an architectural design problem - one limited in scope and one not readily solved by a trip to the library.

This year's winner was James Wright, a recent graduate of Macomber Vocational High School, whose plans for a ski lodge are shown.

#### ADVENTURE IN THE PARK



NEW YORK, N. Y. By December of this year, Central Park will have another playground. The concrete and asphalt of the 67th St. playground will be replaced with sand, and the single open space there will be carved up into a series of smaller related play areas. It looks like fun. Sponsored jointly by the Estée and Joseph Lauder Foundation (which put up the \$70,000 for construction and play equipment), the Mothers' Committee to Improve the West 67th St. Playground (which will provide a fulltime supervisor for six to eight months a year), and the New York City Parks Department (which will provide and maintain both the playground facilities and a continuing supply of mobile equipment), the play area will be this city's first "adventure" playground. The "adventure" idea (let the kids build things and tear them down) is nothing new (grown-ups do it all the time). But as an organized approach to playground philosophy, it is an inviting respite from the dull nothings usually offered city children.

Adventure playgrounds first originated in the British and Scandinavian countries, where the bombed-out wastes of war provided field days for curious, imaginative children. Now, Richard Dattner of Davis, Brody & Associates in New York has designed an adventure model for the New York child who has neither the wastes of Europe nor the alleys of Harlem to intrigue him. The playground will have a splashing pool with a water channel for sailing boats, a series of climbing poles and mounds, a bumpy slide, a cargo net, a real boat to sail the Seven Seas and not go out of the park on, a little theater for puppets and child actors, tree houses and pits, and a jumble of wooden poles and boards to practice architecture with.

At a rate of one a year for the next 10 years, the Lauder Foundation plans to donate other experimental adventure playgrounds to the city. And if this first one is any indication, they can't build them fast enough.

HOW TO KEEP YOUR LANDMARKS AND HAVE THEM TOO



CHICAGO, ILL. On September 29, the Chicago Symphony Orchestra began its sixtysecond season in Chicago's Orchestra Hall. Designed by Daniel Burnham, it was the first permanent home for a symphony orchestra in the U.S. The auditorium, with seats for 2581 in its nine-story building overlooking Michigan Boulevard, cost \$750,000 in 1904. Last summer, it underwent a \$2 million facelifting, underwritten by a contribution from Silvain Wyler. Probably the single most elaborate item was the installation of a central air-conditioning system. As a result, certain areas of the ceiling, unchanged except for color, are perforated for air outlets and for placement of sound diffusors to improve the acoustics for the orchestra.

The auditorium was also completely redecorated, the seats reupholstered, and a new carpet laid. The main lobby



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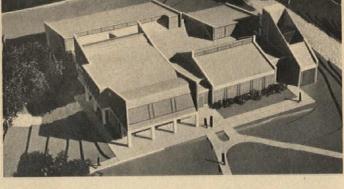
has been enlarged, as has the gallery lobby on the sixth floor. (The gallery can now be reached by the main staircase.) Backstage, a conductor's suite was installed, dressing rooms were provided for soloists, and lounge and locker space provided for orchestra members. Under the stage are

a soundproof warm-up area, and beneath the lobby a recording room, a music library, and a chorus rehearsal room.

Architect for the renovation was Harry M. Weese & Associates, who were also architects for the renovation of Louis Sullivan's Chicago Auditorium Theater.

THE STUDENT CENTER WITH AN ANGLE

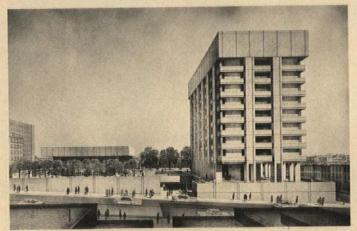




JACKSONVILLE, ILL. This fall, construction will begin on Illinois College's Student Center, a multipurpose complex that uses every trick in the book. Vaulted laminated wood beams and deck, clerestory, floor-to-ceiling and vertical slot windows, varying roof heights, sloped parapets, and

arcades will provide 14,640 sq ft of space for a two-story bookstore, a faculty lounge, and student activities offices (remember when it was student lounge and faculty offices?), snack bar and lounge and game room. Mittelbusher & Tourtelot of Chicago are the architects.

#### **RAISING RESEARCH**



BALTIMORE, MD. Ninety-nine years ago Johns (he thought in plurals) Hopkins gave the city of Baltimore a token of his appreciation and the beginnings of one of the finest medical centers in this country. Four years ago, Johns Hopkins University started a \$86 million fund-raising campaign, \$41 million of which is set aside for construction. In September, 1965, work was begun on the \$3,500,000 research building (right in photo).

Designed by Baltimore architects Fisher, Ness, Campbell & Partners, the ninestory 110,000 sq ft Research Building will, by January of next year, house the departments of medicine, psychiatry, biomedical engineering, otolaryngology, obstetrics, and gynecology within its poured concrete, sand-blasted walls. Capped by a penthouse housing mechanical facilities, all utilities will run in the exposed vertical and horizontal bands around the building, much like the human circulatory system. This mechanical solution allows for the maximum interior flexibility. With outlets spaced every 10'

throughout the research floors, it is possible to turn offices into labs and labs into offices by plugging into the system. To the left of the Research Building will be a 65,000 sq ft, \$2 million, 750-seat audiwith below-grade torium meeting and seminar rooms. Architects hope to have this building out for bids in August. Both structures will sit on a raised landscaped plaza and will have a tunnel accessway to the university.

#### **WOULD YOU LIVE IN A ZOO?**



SAN DIEGO, CALIF. "The Camel's hump is an ugly lump,/Which well you may see at the Zoo;/But uglier yet is the Hump we get/From having too little to do." The Elmer C. Otto Center of the San Diego Zoo, will, by the time it is completed in October, deny Kipling's versification and give young and old a solid round of zooing. The

20,000-sq-ft, \$750,000, onebuilding zoo will house a 200seat auditorium and space for administration and education facilities, as well as an orangutan or two. Designed by San Diego architects Tucker, Sadler & Bennett, the zoo has only one missing link — and a sad one at that. This zoo has been designed for people, not for the animals.

**BOSTON SOB** 

BOSTON, MASS. The first building in the \$175-million, 52acre Government Center here was completed and occupied last June. The Emery-Roth designed, 22-story, \$18-mil-lion State Office Building (shown) will house nine government agencies and 3000 employees. The precast concrete building, with its thermos-bottle cap on tight, will have a neighbor in the soonto-be-dedicated, 26-story Federal Office building, designed by The Architects Collaborative and Samuel Glaser Associates. Also coming along is Kahlmann, McKinnell & Knowles City Hall (half finished), a Welton Becket Associates crescent-shaped of-



fice tower (in second construction phase), and an Emery Roth & Sons and Edward Larrabee Barnes office building (foundation under way). Weighted down by these projects, Scollay Square shall not rise again.

## Eljer design matches the modernity of Grady Gammage Memorial Auditorium

When a modern structure, such as the Grady Gammage Memorial Auditorium, is built, it's only natural that modern-design plumbingware be chosen. In this case, 199 Eljer fixtures were installed.

Situated on the campus of Arizona State University in Tempe, Arizona, this auditorium stands 80 feet high — eight stories by normal building standards — and measures 300 by 250 feet. It's sometimes described as "the dream of two great men," Dr. Grady Gammage, the late president of the university, and the late Frank Lloyd Wright, world-famous architect.

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Designer: Frank Lloyd Wright / Architects: William Wesley Peters, member Taliesin Associated Architects, an affiliate of the Frank Lloyd Wright Foundation, Scottsdale, Arizona; Kemper Goodwin & Associates, Tempe, Arizona / Mechanical Engineer: Biddle & Young, Phoenix, Arizona / General Contractor: Robert E. McKee, Glendale, Arizona, with general offices in El Paso, Texas / Wholesaler: Smith Pipe & Steel Co., Phoenix, Arizona / Plumbing Contractor: Jack Dean Plumbing, Phoenix, Arizona

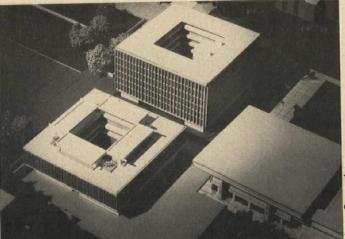


SAN ANTONIO, TEX. By spending millions, educational institutions in North America's oldest city are following the example of those in many of her younger sister-cities. St. Mary's University (founded 1852) is spending \$25 million

for a 10-year program of building and curriculum improvement. Construction of 10 new buildings, \$11 million worth, will be begun this year to make ready for St. Mary's expected doubled enrollment (to 6600) by 1975.

Shown here is the science addition (1), library (2), view toward the law center (3), and law faculty offices (4). All buildings will be of sandfinished local brick and will be what San Antonio architect Brooks Martin calls "Texas Colonial." The Texan forms are evident in the buildings at first sight: post-and-lintel Texas mission arches, adobe construction with small, narrow windows to conserve heat, or exclude it, and colonnades for weather protection. But the "Colonial" part of Martin's label is strictly his own. Feeling that "basically all architecture is Colonial," that everyone borrows from the past, Martin, to judge from the renderings, has successfully combined his borrowings of regional motifs with a contemporary feeling.

BACK TO THE ROMANS



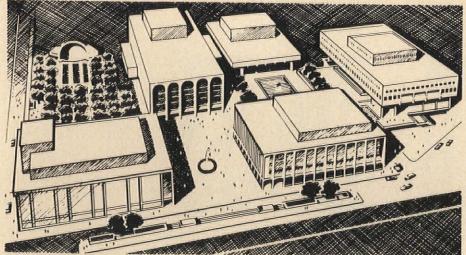
SAN DIEGO, CALIF. Architecturally, the trend is Roman. Commercial, residential, and institutional plans are increasingly focusing on the inner courtyard. Now a twodormitory unit, the Revelle College Residence Hall Unit II at the University of California at San Diego, will soon be "atriumized." The dormitories, to be completed in the fall of 1967 at a cost of \$2,200,000, will complete the final phase of the university's first college. San Diego architects Tucker, Sadler & Bennett have designed a fourstory and a six-story building connected by a mall that will have landscaped central courts and balconied atriums for 640 students. The finned vertical elements of the buildings will provide sun protection and privacy.

#### CALENDAR

At the 19th annual Fall Convention of the American Concrete Institute, to be held October 24-28 at the Jung Hotel in Detroit, Mich., committees will report on two new standards, "Recommended Practice for Concrete Floor and Slab Construction" and "Recommended Practice for Manufactured Reinforced Concrete Floor and Roof Units" . . . "Toward a More Livable City" is the theme of the Pennsylvania Chapter of the ASLA's regional symposium, scheduled for October

#### 27-28 at the Hotel Hershey, Hershey, Pa. Information may be obtained from Charles A. DeDeuwaerder, Program Chairman, 1101 Greenfield Avenue, Pittsburgh, Pa. 15217... On November 9 and 10 at New York's Statler-Hilton Hotel, The Committee for Construction Industry Product Literature plans to evaluate building products literature aimed at architects, consulting engineers, builders, and building material dealers. Registration for the conference is being handled by the

LINCOLN CENTER FOR THE PERFORMING ARTS



Therefore, 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 held 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,"

> -**John Ruskin** Seven Lamps of Architecture The Lamp of Memory 1854





NAARGO





#### Naarco Fascia now in three new colors, many custom shapes

NAARCO Fascia, a multipurpose aluminum facingsiding material, is now available in three durable NAARCOLOR hard coat finishes, black, dark bronze, and deep bronze.





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Other outstanding advantages of NAARCO Fascia include easy interlocking, snap-on assembly without screws or nails, no plywood backing required. For additional information including a custom design blueprint, circle Number 1 on our coupon and mail with your letterhead.

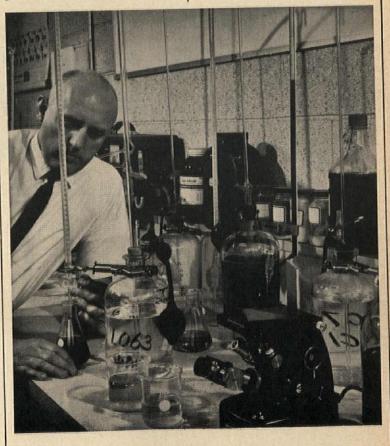


#### Naarco's chemistry lab... the search for quality

A complete chemistry laboratory for research and testing is one way NAARCO puts teeth into the old cliche "single source responsibility."

Purpose of the lab? NAARCO curtainwall, mullions, windows, and other aluminum products are dependent on many allied products such as caulking compounds, laminated panels, finishes, etc. As a "single source of responsibility" NAARCO wants to be sure all supporting products are of the highest possible quality so the installation is totally satisfactory. And so they test. And test. Result? Only caulking compounds with long life expectancy and good adhesive characteristics are selected thus insuring weather-tight installation. Only laminated panels whose adhesives can endure time or exposure to fluctuating conditions will be used with NAARCO curtainwall sections.

In addition to testing caulking compounds and panels, NAARCO's lab also has continuing analysis on weather strippings, finishes and many other materials that affect the outcome of a job thus fulfilling "single source responsibility."





#### Naarco overnight delivery keeps building on schedule

A shining NAARCO "semi" is a welcome early morning sight to architects and contractors on major construction jobs across mid-America and along the East Coast.



NAARCO's company-operated fleet, of course, means no-delay shipment of materials to the job site. But it has many other advantages too.

NAARCO President, Bob Barnard, says, "We're not in the trucking business by accident. Not only do we save valuable time with overnight delivery but we have greatly reduced partial shipments, lost goods, damaged goods and many other problems that cost everyone time and money." As another aspect of their "single source responsibility" policy, NAARCO's own fleet cuts red tape and helps architects and contractors meet their completion dates.



#### Naarco adds 14 agents for fast, total service

"Faster info to architects when they want it." Better availability of NAARCO products. Total on-the-job assistance when it's required.

These are the reasons NAARCO recently added 14 new agent-organizations to their marketing team, according to Ross T. Griffith, NAARCO Marketing Vice President. The addition gives NAARCO 45 agents across the U.S.

"Timing is the most critical factor in the agent-architect relationship," Griffith added. "If we're there when the architect wants us, fine. If we're unavailable, forget it. We've put men where it will help architects and contractors get what they want."

Black dots on the map indicate new agencies. Circles pinpoint where NAARCO agents already serve.





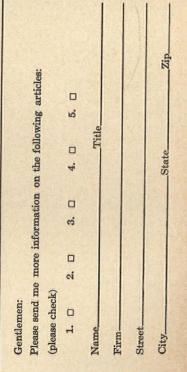
#### Naarco windows grace new office complex

Standard size NAARCO windows have been creatively, and beautifully used in this new, five-office complex designed for the Scott-Forsman & Co. of Chicago. Architect: Perkins & Will, Chicago.



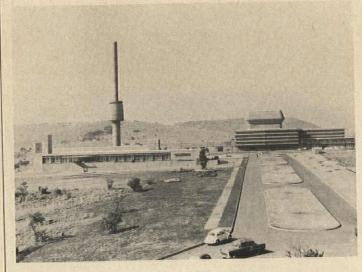


NORTH AMERICAN ALUMINUM CORPORATION Kalamazoo, Michigan 49004 - Phone (616) 349-6626



Producers Council at 1717 Massachusetts Avenue, N.W., Washington, D.C. 20036. The Connecticut Building Congress, Inc., will hold its Fifth Annual Symposium and Exposition on October 25 and 26. Members of the Congress will meet at the Park Plaza Hotel, Chapel Square, New Haven, Conn., to participate in a symposium entitled, appropriately enough, "Threshold to the 70's."

#### NUCLEAR POWER CENTER FOR SOUTH AFRICA



PELINDABA, SOUTH AFRICA. Comedian Tom Lehrer sings a song he composed called "Who's Next?" It starts out, "America has the bomb but that is good because we're for peace and motherhood. Russia has the bomb and that's okay, for the balance of power is maintained that way." Several other countries also have the bomb, of course, and all the rest wish they did. With the official opening of the National Nuclear Research Center here last summer, South Africa has the means to develop one if she wants to. Ostensible purpose of the center is to help the country convert to nuclear generation of electric power, and, by 1970 at least, some areas are expected to do so. Designed by Pretoria architect Bryan Sandrock, the complex, known as Safari One (for South African Fundamental Atomic Reactor

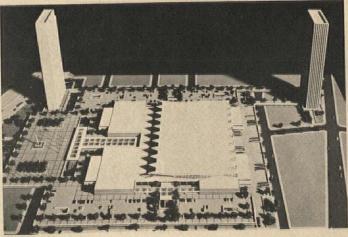


Installation), is in keeping with both its purpose and with the barren transvaal veldt on which it sits. Imbedded in the concrete facade of the reactor building is a mural symbolizing the "nuclear imprint of our age."

South Africa has one of the world's most readily available supplies of fissionable material, found in the piles of earth cast off by its gold mines. If the 1970 nuclear power goal is fulfilled, South Africa will be well ahead of both the U. S. and Russia in clean power production even without the bomb.

#### BIG, BUT

LOS ANGELES, CALIF. The Los Angeles Auditorium-Exhibition Center is big: There will be 31 acres outside and 458,000 sq ft inside. Mark Twain, who thought an interior space was grand if it had enough room "to swing a dead cat," would have been impressed. The main exhibit area will have a minimum height of 40' throughout its 300' span—believed to be the largest "high bay" area in the U.S. With the aid of a 40' folding, soundproof partition, this space can be divided to serve three separate, simul-



taneous functions. Designed by Charles Luckman & Assoc., the structure is a cable-suspension building that uses the engineering principle of prestressed high-tension cables to take the place of rigid steel trusses. "It also provides the 'architecture' of the building," says Luckman, "by giving the roof a dramatic shape, with constantly changing shadow patterns during the course of the day." Terraced landscaped parking will be provided, Los Angeles style—for 3000 cars. When completed, the Center stands to gain \$16 million yearly from conventioneers. The Los Angeles City Council approved the project last month.

#### EAVESDROPPINGS

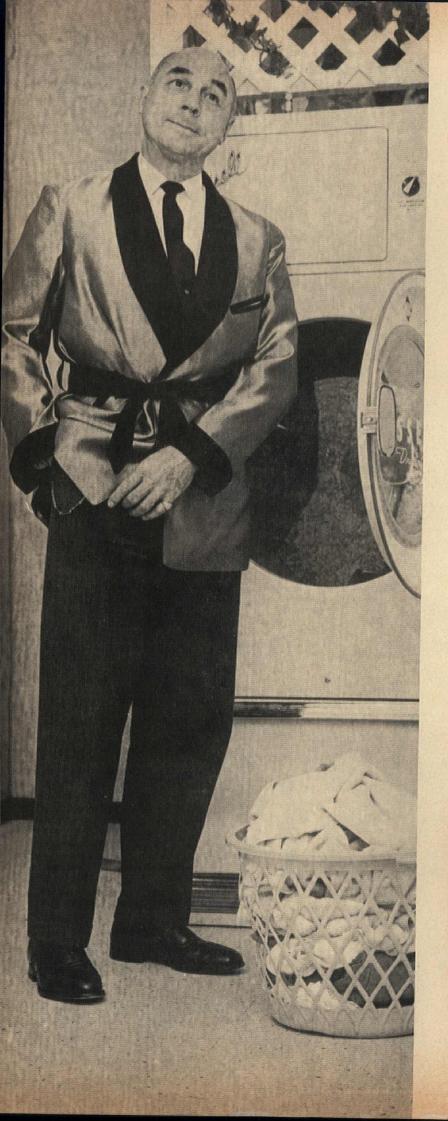
"In 1906, when the \$25 million hole was dug in the old Tenderloin district for the \$112 million terminal and landmark (Pennsylvania Station), the city's and the railroad's sights were high. Now dreams of glory and broken Doric columns lie shattered in the Secaucus meadows." Ada Louise Huxtable, writing in The New York Times.

"Most, if not all, architects still consider architecture as an esoteric art, and as such take the position that as artists nobody is going to tell them what to do. I have often thought that the synonym to the word profession is arrogance, and particularly so with the architectural profession." *Architect Kyo Isumi in a letter* to P/A.

"After careful observation and investigation into the lack of progress in meeting the problem of building and development, it became clear that progress was essentially blocked by the interaction of proliferating, restrictive, inflexible planning and zoning regulations; archaic, nonuniform codes and inspection practices; union work rules and limitations; the highly fragmented character of the construction industry (thousands of small firms, with limited financial capacity and unequal bargaining power); the unwillingness of mortgage lenders to support builders who might want to innovate and experiment." George T. Bogard of the General Electric Company in a speech titled, "Role of Large-Scale Enterprise in the Creation of Better Environment," given at the American Institute of Planners conference.

"Since Stonehenge, man has always wanted to organize his environment, to create the ideal in every way, including the city, the ultimate and most enduring expression of any age. He still aspires, but there is growing confusion. . . . Certainly the urban designerarchitect is impotent unless he recognizes the forces in society and translates these forces, or desires, into three-dimensional reality. What are the 20th-Century forces which must be tamed, understood, deflected? They are, number one, materialism; number two, shear increase in size necessitated by the population explosion; and number three, the scientific impact on our society." Paul Rudolph, speaking at Colgate University.

"In an opera house, everything has to be designed in terms of sound. Because sound



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is the main reason to go to the opera. But after the Philharmonic experience, the whole science of acoustics was washed away. Until then, everyone thought that sound travels as light does, that it bounces off a wall at the same angle as it goes into the wall. High frequencies do that. But now we know, for example, that the lower frequencies don't. They act more like mass, like a billiard ball with English; they sort of have a spin that makes them rebound at different angles and can cause echoes.

"The house also had to be bigger than it should be. We finally figured we had to make room for 3800 seats — the opera isn't subsidized in this country — when 3000 seats is ideal for an opera house.

"I could have experimented, I suppose. There have been modern opera houses built since the war. But the bigger the involvement, the less real room there is to experiment. I just couldn't go off into the realm of theory with a building like this. You just can't experiment with \$45 million." Wallace K. Harrison, in The New York Times Magazine.

"He wore billowing silk shirts of lavender and apple green to the office. He paid dentist bills for dozens of chorus girls because he could not bear ugly teeth." Aline Saarinen, writing of Stanford White in Life.

WASHINGTON/FINANCIAL NEWS

#### BY E. E. HALMOS

Architects and urban planners will soon be dealing with a new, and to some extent undefined, set of conditions in planning projects to be built in or near the flood plain of a stream.

The change will be the result of a little-noted Presidential order (No. 11296), which directs all Federal agencies, including the Housing and Urban Development Department, Small Business Administration, Water Pollution Control Administration, as well as more traditional construction agencies, to disapprove any construction in a flood plain that is "uneconomic, unnecessary, or hazardous." The all-inclusive order notes that the consideration of flood hazard will affect any work in which Federal funds are involved in any way-by direct grant or loan, mortgage insurance, or anything else.

Background on the move dates back more than six years, when the Army's Corps of Engineers sought (and was denied) Congressional authority to block construction in flood-plain areas; it also stems from Administration efforts to take a posture of economy. Since 1936, the Corps and the Soil Conservation Service has spent more than \$7 billion on flood control and floodprevention work; it now spends an average of \$500 million a year for this purpose. Complaint is that developers and city planners insist on building in floodprone areas, then demand, and get, Federal work to protect these areas. Every time the Federal Government builds a levee or flood wall, more building goes up behind it, with the result that a record flood brings more damage and more demands for protective works. Besides, says the Corps, building in the flood plains increases danger of disastrous floods, since it restricts natural watercourses.

Under the order, requests for funds for projects in such areas must be accompanied by written "findings" by agency heads that no danger exists — or funds will be denied.

The order, unfortunately, fails to clarify a couple of important points: (1) there are no national criteria of flood danger, not nearly enough information on many streams to set such criteria; (2) the order doesn't say who in the various agencies will pass on the extent of danger. NASA to Study Architectural Fees - Tucked away in a rider on the appropriations bill for the National Aeronautics and Space Agency is a matter of major concern to architects: call for a year-

long study as to whether the present 6% limitation on architectural and engineering fees is too low.

NASA had requested a one-year waiver of the 6% limitation on certain advanced and complex projects. Congress didn't permit that, but it did direct the Comptroller General to make a Government-wide review of the subject and report back within a year.

Professionals have long complained that the fee limitation, coupled with too-low Federal construction cost estimates, has made it necessary to reject assignments; they have argued, on the other hand, that adequate (or above-average) fees can result in savings by permitting comprehensive solutions with simplified construction.

An immediate participant was the Consulting Engineers Council, which sent out a call to its members for data to illustrate specific instances where hardships have been created because of the 6% limitation.

Running Amok in the Capital — To nobody's surprise, Congress charged right back down Capitol Hill in mid-August, and approved a compromise appropriations bill that will permit the Architect of the Capitol to continue preliminary design planning for extension of the Capitol's West Front.

Thus, predictably, another annual skirmish over the construction and appearance of the building ended just where the powerful "Commission on Extension of the U.S. Capitol" wanted it to: with a start on the work of extending the old building's crumbling West Front some 80' outward, to create new office, committee room, and restaurant space at a cost of at least \$34 million.

The House-Senate conference committee that worked on the annual "Legislative Branch Appropriations" bill, in which are contained funds for the Architect's office, was careful to disclaim responsibility. Said Oklahoma's Senator "Mike" Monroney, representing the Senate in the conference: "I believe this is a reasonable compromise [permitting continuation of design planning] that will enable both advocates and

opponents . . . to participate in whatever decision Congress eventually will make. . . . This action in no way endorses or rejects the Architect's course of action up to this point."

Monroney went on to explain that Architect Stewart had spent all but \$40,000 of some \$300,000 given him last year for planning, and that he would use the remaining money mostly for construction of a "mock-up" to show how the building will look when extended. Additional funds for this model, plus other administrative expenses, are provided — but no money for actual construction work.

(Stewart won another victory, somewhat less publicized, when the House Interior Committee adopted an amendment specifically exempting Stewart's 133-acre Capitol Hill domain from a bill aimed at encouraging local efforts to preserve historic sites.)

And while the Capitol furor died down a bit, Washington could look forward to a couple of other architectural points of discussion: a proposal-to build a sort of "Ponte Vecchio" - a shoplined, pedestrian bridge - to connect the city's Southwest redevelopment area waterfront with the almost inaccessible site (across an arm of the Potomac) of the planned, controversial national Aquarium on Haines Point. The 874'-long, 40'wide bridge, hopefully would be built by private developers, with "minimal" Government participation. There was no fight over this idea; most of the city's architectural critics (some official, some self-appointed) seemed pleased.

But Virginia's Department of Highways, with the cooperation of many metropolitan area planning groups, dropped a bombshell into the already heated argument over how to get commuters into Washington: a plan for a mammoth, 24-lane "spaghetti bowl" interchange just across the Potomac near the Pentagon, to merge almost a dozen lanes of local and through traffic, and handle as many as 180,000 vehicles a day in shifting patterns. Included, on three paved



October 1966



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levels, would be some 27 bridges of varying lengths, miles of steel and concrete - and a price tag of \$30 million.

Immediate concern of architects was the impact of such a vast area of roadway. on many levels, on the attempts to beautify and dignify approaches to the capital.

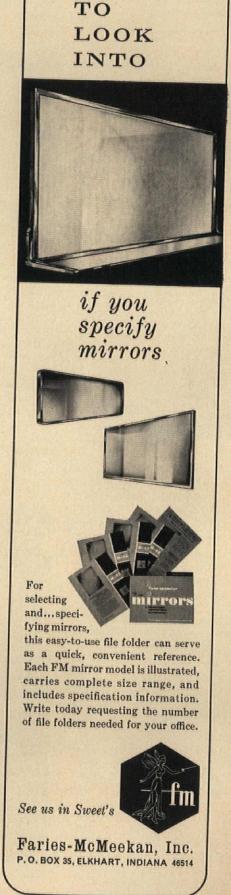
· Financial - Congressional attempts to pump new money into the housing field through a nearly \$4 billion infusion of funds to "Fannie Mae," the Federal National Mortgage Association, were being watched carefully by a housing industry that expected to see no more than a million or so "new starts" this year. Problem of tight money wasn't affecting builders so much in their own financing as it was in that prospective buyers have balked at skyrocketing interest rates on their borrowing. · Nevertheless, the general public doesn't seem to be too frightened of the future: Census bureau estimates of "buying intentions" of U.S. citizens (as of mid-July) showed little change in plans, over the past three months, in purchasing such varying commodities as automobiles and household goods.

· Certainly, taxpayers were continuing their strong support of public works spending. The Investment Bankers Association said that, in July, voters approved 83.6% (\$50,400,000) worth of construction bonds, turned down only 11 proposed bond issues. Bulk of the new money voted (\$21 million) will go into educational work.

Census further pointed out that, also in July, the value of total new construction put in place was \$7,200,-000,000 - up about 6% from the previous year. Significantly, private construction was clocked at \$4,750,-000,000 — up about 5% from a year ago; but public construction, at \$2,400,000,-000, was up 11% over the previous year.

· Drop in housing was dramatically illustrated: In July, new starts were at a seasonal rate of only 1,064,000, compared to 1,473,000 a year ago.

On Readers' Service Card, Circle No. 359



SOMETHING

## PRODUCT

AIR/TEMPERATURE Radiant-heat drywall ceiling system consists of a single layer, 5%" gypsum wallboard with electric heating cables embedded in fireproof gypsum cores. "Gold Bond Rayboard" systems are installed with conventional wallboard hanging techniques. Each heating panel is a self-contained unit, available in seven models and three sizes. National Gypsum Co., Dept. RM-1, Gold Bond Building, Buffalo, N.Y.

Circle 100, Readers' Service Card

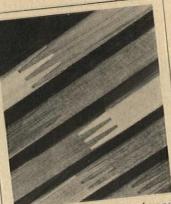
CONSTRUCTION



Prefab roofing system of interlocking metal sheets conceals fastenings and drain channels. Aluminum, copper, Monel metal, or stainless steel may be used for the system, suitable for new construction or re-roofing. Vertical seams are flush with sheet surfaces and form a combination drain channel and hairline expansion joint. Horizontal seams have a standard height of 34". Suitable for roofing over decks of concrete, wood, or steel with insulation. Overly Mfg. Co., Architectural Metal Products Div., 574 W. Otterman St., Greensburg, Pa. 15602. Circle 101, Readers' Service Card

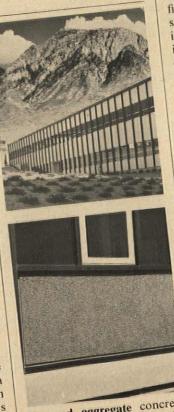
> "Duroflash," a dead soft stainless steel (no springback), can be easily bent, cut, nailed, and soldered. The Type 304 soft stainless has been developed for flashing and is said to be less expensive than "scarcer flashing metal." Widths up to 36" available in coils and in cut lengths; in 26, 28, and 30 gage - or in special-order sizes. It needs no coating and is available in two finishes. Samples avail-

able. Republic Steel Corp., 224 E. 131 St., Cleveland, Ohio 44108. Circle 102, Readers' Service Card



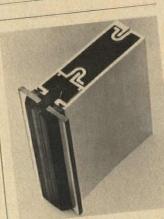
"Noyo Finger-Joint" redwood lumber eliminates the waste of trimming random lengths at the site — exact lengths (up to 24'), widths and thicknesses can be factory-cut. This is said to be more economical for jobs where long fascias or sidings are needed. End-glued joints are smooth and accept paint as well as surrounding redwood, manufacturer states. Available unfinished or factory paint primed. Union Lumber Co., 620 Market St., San Francisco, Calif. 94104.

Circle 103, Readers' Service Card



Exposed aggregate concrete, bonded to foamed insulation

backed with metal, forms lightweight curtain-wall panels. Maximum size of standard concrete unit is 3'-9" x 9'-9" x 134" thick, and weighs approximately 15 psf; weight and thickness may vary with the aggregate. Cast in a seamless steel pan with 1" of rigid Styrofoam insulation, the panel has a "U" factor of .20. Edges of pan embedded in the concrete are unexposed on the exterior; metal surface may be painted for interior finish. Schokbeton Products Corp., 1270 Ave. of the Americas, New York, N.Y. 10020. Circle 104, Readers' Service Card

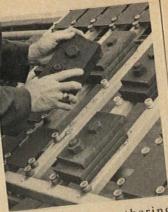


"T-Wall" framing system insulates glass from metal mullions in curtain walls with Tshaped gasket and filler strips. Gaskets are pressed into continuous stainless-steel spring clips that pull the glass against filler strips fitted into mullion slots. This insulation results in a "U" value of 0.6, according to manufacturer, and no condensation with temperatures of -20 F outside, 70 F inside, and 35% relative humidity. New system is suitable for both low- and high-rise buildings. Pittsburgh Plate Glass Co., 632 Fort Duquesne Blvd., Pittsburgh, Pa.

Circle 105, Readers' Service Card 15222.

Concrete block with integral exposed-aggregate face is available with any one (or a combination) of 15 aggregates. Manufacturer claims good weathering qualities and states that fabricating the aggregate face as a part of the block cuts down on freezethaw damage caused from water seepage behind the face. Preco Chemical Corp., 55 Skyline Dr., Plainview,

Circle 106, Readers' Service Card N.Y.

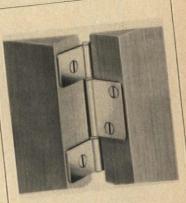


Bolts to match weathering steel are now available. Maintenance-free "Weather-R" bolts with "built-in corrosion resistance" have been developed for use with manufacturer's "Mayari R" weathering steel, which forms a dark brown textured finish after long exposure. High-strength fasteners meet mechanical and dimensional requirements of ASTM specification A325. Bethlehem Steel Corp., Bethlehem, Pa.

### DOORS/WINDOWS

Movable walls are now available with coverings of Du Pont's "Tedlar" — a polyvinyl fluoride which "makes vinyls as stain resistant as ceramic tile." Tedlar, laminated to Modernfold's "Soundmaster" or "Acousti-Seal" movable wall surfaces will be optional. Matching wall-coatings will also be available from Moderncote, Inc., the manufacturer's subsidiary. New Castle Products, Inc., 1721 "I" Ave., New Castle, Ind. 47362.

Circle 108, Readers' Service Card

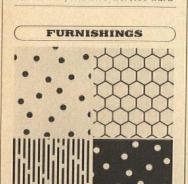


Three-leaf door hinge needs no mortising and shows knuckles on one side, and only leaf edges on the other. Brassplated steel hinge, "4741," October 1966

measures 311/32" long by 29/32" wide open. Samples available. Amerock Corp., 4000 Auburn St., Rockford, Ill. 61101. Circle 109, Readers' Service Card

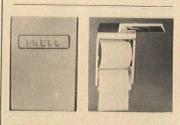


Plastic ellipsoid luminaire atop a cast-aluminum pole for outdoor lighting accommodates up to 400-w mercury vapor or 500-w incandescent light. Pole (8', 10', 12', or 14' high) is finished in baked acrylic - white, black, or dark bronze. Luminaire, 34" dia., has built-in reflector. Suitable for parks, campuses, parking lots, street lighting, etc. Kim Lighting, 1467 N. Lidcombe, El Monte, Calif. 91733. Circle 110, Readers' Service Card



**Op Art designs** on "Patent Vinyl" create slippery looking upholstery and wall coverings. Designs include "Chickenwire," "Matchsticks," "Polka-Dots" (white on black ground or black dots on white ground), as shown, as well as black and white stripes and solid white or black patent vinyl coordinates. Available too are custom hand prints on any vinyl background. The material is 53/54" and fabricbacked with sateen for added strength. Manufacturers claim a brush will clean it. J. M. Lynne Co., 149 Sullivan

Lane, Westbury, L.I., N.Y. Circle 111, Readers' Service Card



Would you believe an automatic toilet paper dispenser? Molded of egg-shell white plastic, the device uses "solid state circuitry"; designed for recessed installation, it fits flush with the wall. Just press and tissue rolls out to any desired length. Would you believe the manufacturer claims, "It eliminates unsightly toilet paper"? Advance Design Service, 23280 Gonzales Dr., Woodland Hills, Calif. Circle 112, Readers' Service Card

St. Nick couldn't slip down into the Manchester Pierce fireplace — a free-standing floor unit to which wall brackets can be added for midwall suspension. Models come with top-mounted vertical chimneys or hidden back flues. Fireplaces are also adaptable to gas log conversion with hearth opening up to 40". Finish is heat-resistant matte black. Condon-King Company, Inc., 5611 208th Avenue S.W., Lynwood, Wash

Circle 113, Readers' Service Card

Zefkrome, an acrylic fiber manufactured by the Dow Badische Company, provides maximum color retention for carpets made with it, because its color is added during fiber-making. Manufacturer claims that its colors have richer luster and clearer tone than normally dryed acylics. Odorless when wet, unsusceptible to silverfish and

mold, Zefkrome's practicality does not exclude the luxury of choice of weaves and textures. Among carpet manufacturers using Zefkrome are: Hugh Nelson-Columbia Carpet Company; Gulistan Carpets; and Downs Carpet Company. Dow Badische Company, Textile Fibers Department, 350 Fifth Ave., New York, N. Y.

Circle 114, Readers' Service Card



Cool are the Stellante hingedoor cabinets (shown) and sliding tambour door cabinets by Imperial Desk Company, when turned into refrigerated office furniture. Hinge doors swing out, allowing the refrigerator door to fold down, providing a serving counter. The door panel of the "slip-in" refrigerator can be made of oil walnut, to match the finish of the cabinet (refrigerator 151/2" high, 263/4" wide, 16" deep, and with 1.5 cu ft capacity and two ice cube trays, is available at the Sub-Zero Freezer Co., Inc., Madison, Wis.). Cabinet modifications can be made at Imperial upon request. Imperial Desk Company, Inc., 1312 W. Florida Street, Evansville, Ind. 47707. Circle 115, Readers' Service Card



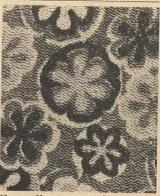
Roll out the vinyl runner by Tenex. The transparency of the vinyl allows one to see but not to sully surfaces under-

foot. Runners have a nonslip, cross-ribbed surface with a flat, lengthwise center strip. They come with gripper undersides for carpets, and smooth undersides for resilient surfaces (such as tile and marble). Vinyl is available in "crystal clear" and four transparent tints: light blue, gold, green, and beige. Runners come in 36" and 48" widths, and lengths up to 60'. Tenex Corporation, 1850 East Estes Avenue, Elk Grove Village. Ill. 60007.

Circle 116, Readers' Service Card



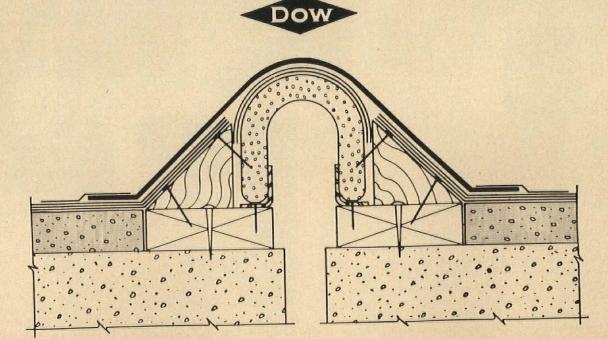
Hide-'n Peek black glass oven doors are transparent when the oven light is on, opaque when it is off. Since they are full width and lift off, oven cleaning is facilitated. Handle comes in bright chrome with a decorative walnut inlay. Most gas and electric ovens manufactured by Waste King Universal will accommodate these doors. Waste King Corp., 3300 E. 50th St., Los Angeles, Calif. Circle 117, Readers' Service Card



Caravelle is a tight, dense, multicolor carpet designed by Trend Carpet to bear institutional wear. It is constructed of 70% acrylic and 30% nylon, and has a long staple length that is said to eliminate fuzzing or piling. Backing is of polypropylene. Manufacturers claim the carpet is

# Are the bugs out of all plastic flashings? Just one— Saraloy 640R.

There's nothing new about flexible flashing, but <u>perfected</u> flexible flashing — that's new, and Dow has it. For flashing applications that will move, it makes good sense to use a flexible flashing, <u>if</u> the flexible flashing will stand up to extreme heat without weakening and thinning out...and to cold without getting brittle. Saraloy<sup>®</sup> 640R plastic flashing can. Another question: will it last? Saraloy 640R will—practically forever. Saraloy 640R flashing is ideal for roof expansion joints, particularly when used in conjunction with Ethafoam<sup>®</sup> expanded polyethylene foam. (See the detail below.) It makes for a thoroughly waterproof, thoroughly weather resistant expansion joint that will last, the life of the roof. By the way, the contractors like it, too, because it's solvent weldable and so easy to handle and install. Want more information about Saraloy 640R...perfected flexible flashing? We have it for you. Write The Dow Chemical Company, Plastics Sales Department, Midland, Michigan 48640. Or consult Sweet's Architectural File 8g/Do.



On Readers' Service Card, Circle No. 351

mildew proof and nonallergic. It is available in designs (with color combinations toned gold, olive, blue-green, moss [brownish], burgundy, and heather) and in tweeds. Trend Contract, 866 United Plaza Building, New York, N.Y. 10017.

Circle 118, Readers' Service Card



For indoor cooking, outdoor style, Mark Stone has designed "Grate-n Grill," an alloy steel fireplace grate with a removable, hammered wrought-iron grill whose cooking surface is stainless steel. The grate's contour makes self-feeding fuel roll toward the center; it is available in 21", 27", 30" and 36" widths. The grill, 12" x 18", can be used on any grate between 24" and 36" wide. Either part can be purchased separately. Metalex Corporation, P.O. Box 147, Highway 176, Libertyville, Ill. 60048. Circle 119, Readers' Service Card

stering, can be attached to most surfaces by means of stapling, tacking, or riveting. Kirsch Company, Dept. V000, Sturgis, Mich.

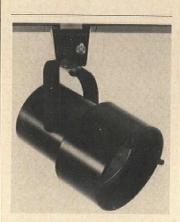
Circle 120, Readers' Service Card



Library furniture by Jens Risom has been augmented by seven tables, study carrels, and three complementary chairs. The tables are rectangular or round and range from single to six places. Shelf units, which are put on top of the same tables to produce separate study carrels or index dividers, are an answer to flexible privacy and storage requirements. Tabletops are of walnut wood, matte bayberry plastic, or Risom vinyl. Carrel shelf is faced with matte walnut plastic. The chairs are both arm and armless designs, with walnut or upholstered backs. Note recessed apron allowing armchairs to be drawn up close. Jens Risom Design Inc., 444 Madison Avenue, New York, N. Y. 10022.

interlocking columns forms the tower's 61"-high frame that comes in teak finish with ebony trim, or walnut and brass. It may be combined with additional units to create a more extensive wall treatment. Toujay Designs, Inc., 146 East 53rd St., New York, N.Y. 10022.

Circle 122, Readers' Service Card



Q-Flood is a wide-beam floodlight, using a 250-w miniature quartz iodine lamp. It is finished in jet black, bronze (both with black yoke and mounting), and matte white. A deeply recessed reflector reduces glare and spill light. Flow-through convection venting cools the lamp. Available with a variety of mounting devices (among them cclamp for pipes, screw-in unit for lamp socket), accessory louver, hood, and color filters. Lighting Services, Inc., 77 Park Ave., New York, N.Y. 10016. Circle 123, Readers' Service Card



Vel-Strips are Velcro tapes mounted on rigid vinyl strips. When pressed together, the two tapes seal tightly and will support as much as 5 lb shear strength pressure per sq in. The rigid strips, designed for carpet installations, door and wall panels, furniture and drapery installations, and industrial uses, as well as for aircraft interiors and uphol-



The Tower of Toujay by designer Jerry Joseph has four compartments and four doors. Each compartment is 13" high, 191/2" wide, 18" deep. Included are a pull-out tray for phono and tape recorder, adjustable shelf, and record dividers. A system of



Combination developer and printer for reproducing drawings has added the ammonia system to the developer section. Ammonia control container needs no venting and, after being filled, the "Diazo-Jet" may be left on all day with no further attention. Care and operation of the

whiteprinter is said to be simple and clean. Rotolite Sales Corp., Stirling, N.J. 07980. Circle 124, Readers' Service Card



Private areas for desk workers in large open spaces are possible with "Quik-Lok" partitioning system - shelving, work surface, and storage cabinets with doors. Units are said to be easily moved and rearranged; no bolting to walls or floors is required. A selection of colors is available. Aurora Steel Products, 153 Third St., Aurora, Ill. 60507. Circle 125, Readers' Service Card



For grand wazirs and other fun-loving people, the "Versa/ Tub" offers another possibility for bathroom luxury. It is a 5' apronless, enameled cast-iron tub that can be sunk flush with the floor, raised or installed as shown here. It can be faced on any or all sides with ceramic tile, wood paneling, etc. Rheem Mfg. Co., 7600 S. Kedzie Ave., Chicago, Ill. 60652.

Circle 126, Readers' Service Card

Safe-shower fixture guards bather against sudden bursts of hot or cold water. Thermostatic shower-bath control will not deliver water above 115 F even if cold water supply fails, and will maintain any desired temperature from 65 F up to 115 F. One moving part -

thermostatic motor and mixing valve assembly — is said to be easily accessible from the front. The Powers Regulator Co., Skokie, Ill. *Circle 127, Readers' Service Card* 

SERVICES

Transparent scheme for saving drafting time uses adhesive-backed, tri-acetate sheets for preprinting repetitive symbols, title blocks, or standard details. Matte surface will take erasures, and adhesive backing is either "permanent" or "temporary." Custom or-der "Stanpats" are prepared from clients' artwork, but a typesetting service is available from the manufacturer. Plain sheets (81/2" x 11") are also available for do-it-yourself printing on a 914 Xerox; this reproduction is said to be clear, with no ghosting. Stanpat Products Inc., Covert and Main Sts., Port Washington, N.Y. 11050. Circle 128, Readers' Service Card



"Attention — an emergency message follows" . . . says the Dialalarm, which will automatically call emergency help should a piece of machinery fail, or a fire start. Wired into existing security systems, it will, for example, automatically call police and deliver its prerecorded message if a building is entered forcibly. The same unit will also call the fire department when acti-

vated by fire or smoke. It can also be used manually. Nite-Day Fire Protection Co., 7315 Lankershim Blvd., No. Hollywood, Calif. *Circle 129, Readers' Service Card* 

Patterned screens conceal rooftop equipment. Eight textured patterns in 12 lively colors, plus black and white, are molded into glass-fiber panels 4' x 8' with built-in mounting frame. Opaque colors are impregnated; panels are said to be fire-resistant. For access, hinged panels are available. Special designs and forms, for uses such as in ventilators, can also be fabricated by manufacturer for dressing up the rooftop mechanical garden. Color chart available. Williams-Bermuda Corp., 914 Westminster Ave., Alhambra, Calif. 91803.

Circle 130, Readers' Service Card



**Control console** for paging and radio sound distribution has AM/FM tuner and 10station switch bank for zone paging. Compact unit is designed for central location such as front desks in motels or hotels. RCA Service Co., Dept. 1614, Bldg. 203-3, Camden, N.J. 08101. *Circle 131, Readers' Service Card* 



"Flushplate" service outlets for hospitals provide oxygen and suction connections. Sin-

gle or multiple plates are also available with electrical outlets, nurse calls, etc. Since stainless steel is frequently not required outside critical areas, states manufacturer, standard units are black epoxied aluminum — with specialorder colors available. Melchior, Armstrong, Dessau, Medical Equipment Div., Ridgefield, N.J. 07657. *Circle 132, Readers' Service Card* 



Compact phone "booth" is all stainless steel, including perforated acoustical side panels. Shelf unit accommodates the Bell System 235G Panel Telephone mounted either on the left (40-S) or on the right (41-S). Dimensions: 24" wide x 30<sup>1</sup>/<sub>2</sub>" high x 14<sup>5</sup>/<sub>16</sub>" deep. Suitable for lobbies, department stores, etc. Manufacturer plans to offer a variety of side-panel finishes and various accessories. Acoustics Development Corp., 1810 Holste Rd., Northbrook, Ill. 60062. Circle 133, Readers' Service Card



**Cooker-freezer** meets massfeeding needs by cooking 40 lb of vegetables every 5 min or heating 48 frozen entrees every 6 min. Directly under the two steam cooking compartments ("400 steam jets impinging directly into the food mass for dynamic cooking action") is a 300-lb capacity freezer. The "2285-FC" virtually eliminates the need

for pots and pans, and requires no ventilation system, claims manufacturer. Vischer Products Co., 2815 W. Roscoe St., Chicago, Ill. 60618. *Circle 134, Readers' Service Card* 



Where there's smoke, this small (6<sup>7/16"</sup> dia. x 2<sup>7/8"</sup> deep) detecting device sets off the alarm. It protects an area up to 60' x 60', and can be added to existing fire-protection systems. When smoke reaches the 4% "obscuration" point, it reflects lights to a photocell, triggering the transistorized alarm relay; temperatures of 135 F or over also start alarm. Device is valuable in protecting sensitive people (the elderly or ill) and sensitive equipment. Notifier Corp., 3700 N. 56 St., Lincoln, Nebr. 68504. Circle 135, Readers' Service Card



A monorail conveyor suitable for hospital use can automatically discharge containers at programmed stations. The system, which has been operated in Swiss hospitals, conveys 220-lb-capacity containers that remain upright while moving in horizontal or vertical directions, and are stabilized to prevent oscillation. The system should ideally be designed into the original plans, but installation is possible in existing elevator shafts or corridors. Suitable for transporting such items as laundry, medical records, test specimens, drugs, trash, etc.

Because *AiRide* is so completely modern, safe, and economical to install and operate it makes all other people movers "old fashioned." And *AiRide* is stepless, so it accommodates a steady flow of passengers and wheeled vehicles.

Consider AiRide for any outdoor installation, for any indoor installation, for any job of moving people up, down or on the level.

Remember, compared to AiRide, all other people movers are obsolete.

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On Readers' Service Card, Circle No. 482

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ST-101

P/A News Report 109



Ritter Pfaudler Corp., 110 Midtown Tower, Rochester, N.Y. 14604. Circle 136, Readers' Service Card uni-Rotary food serving counters carry food to customers, who stand still until served. The large model can serve 1000 persons an hour, says manufacturer. Also, the system saves space and size of staff compared with straight counters. The Kayway Co., 3047 Madison Rd., Cincinnati, Ohio 45209. Circle 137, Readers' Service Card



Three fine-line patterns, designed for Micarta laminates by architect Eliot Noyes, are all based on the grid - a fine mesh, a slightly larger pattern of geometric shapes, and a "window" pattern, the largest of the three (shown). They are printed on 12 solid-color backgrounds, also developed by Noyes. Manufacturer suggests wall, door, counter, and other applications in restaurants, on ships, in hotels, etc. Matching abutting sheets should not be a problem, says manufacturer, since the designs are sufficiently irregular to allow for flexibility. Westinghouse Electric Corp., Micarta Div., Hampton, S.C. Circle 138, Readers' Service Card

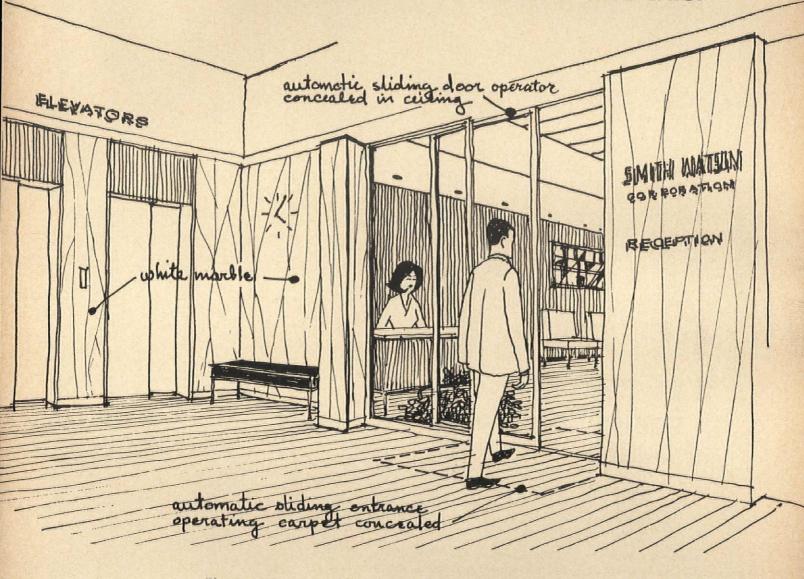


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ic Door Distributor. Rochester The Maurer Co. 31 Richmond St. 716, 454-4990 Syracuse B. R. Johanson & Son, Inc. 5900 South Solino St. 315, HO 9-3244 WoodSide, L.I. The Show Company 61-10 34th Avenue 212, 651-6363 NORTH CAROLINA Charlotte Matcher Soles Company 6437 Rosecret Drive 704, 525-2929 Greensboro Matcher Soles Company 2519 Cezzone Drive 704, 525-2929 Greensboro Matcher Soles Company 2519 Cezzone Drive 704, 525-2929 Greensboro Matcher Soles Company 2519 Cezzone Drive 704, 525-2929 Greensboro Matcher Soles Company 2519 Cezzone Drive 704, 525-2929 Greensboro 0410, 527-2929 Claveland Jed Froducts Company 2616 Carlind Blvd. 216, D1 1-1146 Columbus Jed Froducts Company 865 W. Kim Are. 614, 221-4267 OKLAHOMA OKL 121 Ptc. 2010 125, 24 5: 7417 Tuisa R. Womble Co. 716 Eart 16th St. 918, LU 4: 2414 OREGON Portland Bohm Automatic Door, Inc. 4075 N. Interstote 503, 282-4547 PENNSYLVANIA Blawnox PENNSYLVANIA Blawnox Pittsburgh Jid Froducts Company Ji3 Freeport Road Al2, ST 1-3666 Harrisburg Hershock's, Inc. 1513 N. Comeron St. 717, CE 8-7331 King of Prussia The Sellers Company 396 E. Church Road 215, 248-1806 SOUTH CAROLINA Columbia Hotcher Soles Company 17 Chortwell Road 803, 252-6852 TENNESSEE Memphis Hotcher Soles Company 17 Chortwell Road 803, 252-6852 TENNESSEE Memphis Hotcher Soles Company P.O. Box 12106 901, GL 2-7301 Nashville John W. McDougall Co. 41 tf & Indiana Avenues 615, 207-3595 TEXAS Dallas Automatic Door Control Co. 1175 1091 hSt. Grand Prairie 214, AN 2-1474 Houston Sheltan Greer Co., Inc. 302 5 Maxroy Street 713, 864-487 Lubbock Door Automation Sature & Sth St. 308 Fost 4-7584 806, Antonio Samuels Closs Company 221 Newell Ave. 517, 227-2481 UTAH Sat Lake City Evidding Specialties Co., Inc. 1340 Shelta Chite Co., Inc. 1340 Shelta Chite Co., Inc. 1340 South First West Bour Automating Door Control Co., Inc. 1340 South First West Bour Automating Door Control Co., Inc. 1340 South First West Bour Automating Door Control Co., Inc. 1340 South First West Bour Automating Door Control Co., Inc. 1340 South First West Bour Automating Door Control Co., Inc. 1340 South First West Bour Automating Door Control Co., Inc. 1340 South First West Bour Automating Door Control Co. 1340 South First Weit Bol, 484-7882 VIRGINIA Fichmond Tranco Soles Corp. 2515 Grenoble Road 703, 282-6936 WASHINGTON Seattle Automotic Doorways Autol Wallingford Ave. N. 206, ME 2-5886 Spokane The Corswell Co. 123 South Wall Street 509, 747-1575 WISCONSIN WISCONSIN Milwaukee Jed Products Company 11605 W. Bluemond 414, SP 4-1350 14, 5P 4/1350 DIST. OF COLUMBIA Washington G. W. Blanchard Co., Inc. 6210 Chillum Place, N.W. 202, TU 2-6210 CANADA Toronto, Ontario Pilkington Bres. Id. 55 Ealinton St., E. No. Vancourset, Hord. No. Vancourset, Hord. 1075 Marine Drive 604, 988-5221

# Who helps you to say "Welcome" impressively?

Stanley does. With automatic entrances like this.



The people you design offices for want doorways that create favorable first and lasting — impressions. Get information on Stanley automatic sliding entrances. Write us for Folder No. M67-COM. Look us up in Sweet's. Or check under "Door Operating Devices" in the Yellow Pages for the name of the Stanley distributor nearest you. Stanley offers a complete line of famous MAGIC-DOOR® operators (pneumatic, hydraulic, electric), controls and accessories for doors that swing, slide or fold. Stanley Door Operating Equipment, Division of The Stanley Works, New Britain, Connecticut.

CONSULT YOUR NEAREST MAGIC: DOOR DISTRIBUTOR LISTED AT LEFT

## If you think silence is golden, get a load of lead!

Silence is a big premium in today's world, and you can get that premium with the great sound proofing qualities of lead. By using thin lead sheeting as a plenum or over-ceiling barrier, you can cut down all the irritating, distracting noises that invade privacy and upset nerves.

Lead is economical too, because it cuts and shapes easily to simplify installation around ductwork, lighting fixtures, piping, and conduits.

For more information write for our "PRACTICAL LEAD SOUND BARRIERS" brochure. Lead Industries Association Inc., Dept. N-10, 292 Madison Avenue, New York, New York 10017. 43



LEAD INDUSTRIES ASSOCIATION, INC.

Look Ahead with Lead



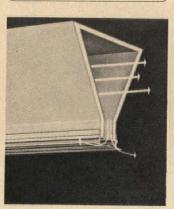
A quiet hour in one's own "castle" is not an easy thing to come by in many new apartment buildings. A revised booklet on "Silent-Cor" sound-dampening board shows a number of simple cross-sections for wood and steel stud partitions and wood joist floors that cut down airborne noise transmission with varying degrees of efficiency. Short descriptions of physical, acoustical, and fire properties; installation instructions. 12 pages. Monsanto Co., Dept. 804-A. 800 N. Lindbergh Blvd., St. Louis, Mo. 63166. Circle 200, Readers' Service Card

ACOUSTICS

Revised edition of noise control manual, "Sound Advice," includes 17 new gypsum wall assemblies plus updated information on previous partition constructions. Cutaway views detail wood or steel stud, gypsum-rib, or solid partition systems. Fire ratings and Sound Transmission Class (STC) ratings are given for each of 32 assemblies, together with additional sound transmission data and charts, materials lists, and application details. 36 pages. Bestwall Gypsum Div., Georgia-Pacific Corp., 2 Industrial Blvd., Paoli, Pa. 19301

Circle 201, Readers' Service Card

(AIR/TEMPERATURE )



"Concepts on the Interior Environment" is a brochure describing integrated ceiling arrangements possible with the manufacturer's components. The backbone of all the systems is the "Modu-Flo" air bar — a slot with an adjustable bar controlling air direction by blades concealed above the ceiling in a triangular insulated duct. Seven systems are illustrated with photos, cutaway views, dimension charts. General component details; air-flow diagrams; cfm, throw, and sound-level charts. 24 pages. Sunbeam Lighting Co., 777 E. 14 Place, Los Angeles, Calif. 90021. *Circle 202, Readers' Service Card* 

High-pressure air-conditioning unit for central systems is available in a variety of capacities between 2300 and 38,100 cfm. Booklet illustrates features of "Seasonmaster" units, recommends steps for sizing an installation, tabulates performance, dimensions equipment, and provides brief specs. 28 pages. McQuay, Inc., P.O. Box 1551, Minneapolis, Minn. 55440.

Circle 203, Readers' Service Card



Reinforced concrete manual (1966 edition) contains data for specifications writers, designers, and detailers, as well as engineering students and contractors. Standard industry codes of practice, estimating data, and contract information are included. Gives specifications for placing bars and bar supports for one-way flat slab and twoway flat slab and flat plate construction. Design case studies offer data on one-way joist construction and twoway waffle slabs; R/C duct floors and metal lath ceiling construction are specified, and standard specs for various types of steel bars are given. "A Manual of Standard Practice for Reinforced

Concrete Construction" conforms to ACI and ASTM codes and specifications, and to U.S. Department of Commerce recommendations. Charts, tables, design data, formulas, specs, cross-sections, etc. 98 pages. Concrete Reinforcing Steel Institute, 228 N. LaSalle St., Chicago, III. 60601.

Circle 204, Readers' Service Card



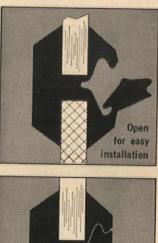
Concrete admixtures are discussed in three booklets. "Facts About Placewel" (F-41386, 8 pages) describes how an air-entraining agent increases strength and workability of concrete while using less water; short specs, photos and graphs showing test results. Second pamphlet on Placewel (F-41387) is a more complete, 16-page study of performance tests, including a comparison table. "Facts About Retardwel" (F-41385, 12 pages) describes a non-air-entraining admixture that helps control setting time and also reduces water requirements. The pamphlet contains charts and graphs, technical data, and photos of installations, including a Titan II missle silo (shown). Union Carbide Corp., Chemicals Div., 30-20 Thomson Ave., Long Island City, N. Y. 11101.

Circle 205, Readers' Service Card



Steel forms for waffle-slab and one-way joist construction are manufactured by this

company in four re-usable types: "Steeldomes" for waffle flat-slab construction; "Flangeforms" for one-way joists; "Adjustableforms," which allow adjustment of joist depth; and "Longforms," one-piece units custom-sized for each project. Size charts, concrete quantity tables, accessory forms, profile sections, eight-page list of completed buildings, and many photos of projects built with the manufacturer's forms, ranging from the Chicago Tribune Tower (1925) to the CBS Building (1965), where a floor was cast every four days. Profile cross-sections, construction photos, and detailing of various ceiling constructions and R/C duct systems. 72 pages. The Ceco Corp., 5601 W. 26 St., Chicago, Ill. 60650. Circle 206, Readers' Service Card





Glazing gaskets from the manufacturer of Mason jars and lids-with-a-rubber-ring (the American housewife's canning-time stand-by) are detailed in this brochure. Since the Ball Brothers' first bottle and jar plant in 1880, the company has expanded into other fields, including rubber products; and its neoprene structural gaskets are available for a number of glazing applications. A representative selection is detailed and dimensioned in the pamphlet; several vinyl reglets and neoprene channels are also included. 8 pages. Ball Brothers Co., Industrial Rubber Goods Div., St. Joseph, Mich. 49085. Circle 207, Readers' Service Card



An arched roof that spans up to 35' is said to be comparable in cost to a flat roof. Interlocking, U-shaped, 22gage steel channels, curved to any radius between 7' and 50', will accept insulation with built-up roofing or poured fill. The 6"-wide by 2"-deep sections are curved to radius at the site. Hot dipped galvanized units, with a baked vinyl enamel finish, are available with acoustical perforations or without. Booklet contains architectural, mechanical, electrical, structural, and roofing details, load charts, short specs, and construction photos. 12 pages.

there is no. "OR EQUAL"

Donn Products, Inc., 700 Bassett Rd., Westlake, O. 44091. *Circle 208, Readers' Service Card* 

Precast concrete planks for floors or roofs are 4' wide, 8" or 12" deep, and can be cut to required length. Underside of hollow-core "Span-Deck" units is lightweight concrete with a textured acoustical surface. Pamphlets give load/span tables, dimensioned cross-sections, guide specs, brief description of manufacturing process, and construction photos. 12 pages. Blakeslee Prestress, P.O. Box 1809, New Haven, Conn. 06507. Circle 209, Readers' Service Card



Greenhouses for colleges, botanical gardens, and commercial use are framed with standard aluminum components. Available in several profiles with straight or curved eaves in widths from 14' to 49', they may be built as freestanding buildings or attached to an existing structure. Manufacturer also offers custom designs and smaller greenhouses for home use. There is an economy series as well as one designed for show appearance. Booklet includes dimensioned drawings and details, size charts, photos, and working drawings. 12 pages. Lord & Burnham Div., Burnham Corp., Irvington, N.Y. 10533. Circle 210, Readers' Service Card

A walk calk, two-component pourable polyurethane, is said to cure to a strong rubber with high elasticity and permanent adhesion to the substrate. Calkwalking, or rather walk calking, resists permanent deformation and weathering. Data sheets on "Betaseal #450" give description, application instructions and physical properties. BFC Div., Essex Chemical Corp., Clifton, N. J. *Circle 211, Readers' Service Card* 

#### ELECTRICAL EQUIPMENT

Hospital lighting fixtures pivot, swivel, and extend their arms for convenient maneuverability in patients' rooms. Some of the wallmounted fixtures may be detached and used as handheld examination lights. Other institutional lighting is also included in catalog, which is illustrated with photos, cross-sections, and



# SAW-TOOTH FLAT SLAB with 12' x 24' column spacing for oru dormitory

The saw-tooth 8" slabs show clearly; transverse tendons are normal to saw-tooth edge strip.

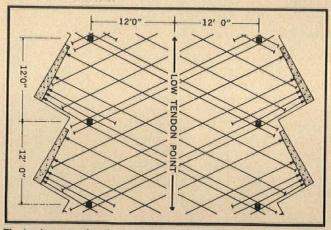
The floor framing for this Oral Roberts University Dormitory is an 8" thick prestressed flat slab, post-tensioned using the Prescon System. The saw-tooth floor plan has columns recessed 2' 10" in from the re-entrant corner with the teeth of the saw projecting 5' 3" from the re-entrant corner. Columns are spaced 24' transversely and 12' longitudinally with tendons running diagonally.

The Prescon tendons are spaced on a one to two slope with the transverse column line, with the column strip tendons extending to the tips of the saw teeth. This rotation of the Prescon tendons permitted principal cantilever reinforcement to become part of a column strip for maximum stiffness in the floor. The structural analysis was based upon load balancing applied to a flat plate. In effect, it is a pure membrane analysis. Tendons varied from 3 to 10 wires. In each 12' increment of floor, 8 tendons running the full width were used and 2 short tendons over the columns. All slabs were cast-in-place with an entire slab completed in a single concreting operation. The average prestress was 300 psi transversely and 150 psi longitudinal. The structure has performed in a most satisfactory manner.

The three wings radiate from a hexagonal 30' core which houses the elevator, lounge and stairs. Each wing is 40' wide by 120' long. Floor-to-floor height is 9' 4" except for the ground floor where height is approximately 11'.

This is first of three planned dormitories. Each will be seven levels including the ground floor. Grade level includes lounges, game rooms, etc.; each of the other floors include an apartment for the house mother, laundry and linen facilities, baths and living quarters for 100 students. Floors are carpeted except for terrazzo in toilet areas. The underside of the slab serves as the ceiling and is a sprayed texture coating.

The architect for the project was Frank William Wallace, AIA; engineers were Netherton, Dolmeyer, Solnok; and the contractor was Manhattan Construction Company. © 1966 THE PRESCON CORPORATION G66 Among the advantages gained by using the Prescon System of post-tensioning prestressed concrete are: flexibility of column spacing, thin slabs with no deflection, and waterproofing of slabs when desired. For the complete story on the advantages to owners, architects, engineers and contractors using the Prescon System, write for brochures and the Prescon NEWS.



The tendons are placed diagonally on a one to two slope to the transverse column direction with the column strip tendons extending to the tips of the saw teeth. Structural analysis was based upon load balancing applied to a flat plate.



## At Crerar Library... Matot lifts speed 400 requests daily



Located in a new building on the campus of the Illinois Institute of Technology, Crerar Library averages 400 reader requests daily for technical research material.

**PROBLEM:** To locate and make requested material available to the checkout desk as quickly as possible.

**SOLUTION:** Two Matot truck-in book lifts and a pneumatic tube system. *First* —requests are sent by tube to one of three employee-stations located on the first floor. *Second*—an employee takes the request, locates the book and puts it on one of two centrally located lifts. *Third*—the material arrives on the lift under the counter-top of the main desk where the librarian verifies it and checks it out. The entire operation takes 5 minutes. Up to 30 requests can be handled at one time. Returned material is loaded onto carts and trucked-into dumbwaiter for return to shelves.

Matot designs lifts for many uses: money lifts, food lifts and record carriers. Write for free information on how Matot can make a building and its employees operate more efficiently.



construction data. 32 pages. Luminous Equipment Co., 3750 N. Powell Ave., Franklin Park, Ill. *Circle 212, Readers' Service Card* 



Coating precast or cast-inplace concrete with one-coat protects against 'Modac" weathering, chemical attack, and salt spray. Solvent-type acrylic coating, also suitable for cinder block, brick, stucco, shingles and wood siding, combines good water repellency with improved "breathing." Four-page folder lists test results and short specs. Insert page has color sam-ples. National Coatings Corp., Ohio & Murray Avenues, Atlantic City. N. J. Circle 213, Readers' Service Card



A carpet in the classroom is a practical idea, say carpet manufacturers: They wear just as well as synthetic flooring and are just as easy to clean. Manufacturers of synthetic flooring, of course, dispute this claim, but there is much to be said for it. Bigelow-Sanford, Inc., makes the point in a brochure aimed specifically at the school market - "Bigelow Carpets Go to School." Included are reports on maintenance tests and comparative costs. Dept.



The Architect's Guide to Mechanical Systems By F. T. ANDREWS, P. E. Reinhold Environmental Engineering Series 1966 / 256 pages / \$12.50

This authoritative reference work describes mechanical systems, including heating, air conditioning, cooling, ventilating, plumbing, and fire protection, for all kinds of buildings. It is a practical guide for solving mechanical design problems that involve types of systems, systems functions, space requirements, equipment weights, installation, maintenance, repair and operating costs. It presents to the specialist the basic information needed to insure proper and adequate consideration of these systems in designing a building. Simple rules of thumb have been developed to determine the space requirements and costs of various mechanical systems. The most recent equipment developments are included.

#### CHAPTER TITLES

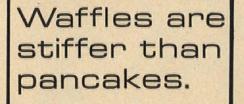
Heating; Cooling; Air-Conditioning Systems; Typical Air-Conditioning System Applications; Ventilation and Exhaust Systems; Plumbing; Fire Protection Systems; Useful Mechanical Information; Typical Building Mechanical Costs; Your Mechanical Engineer.

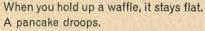
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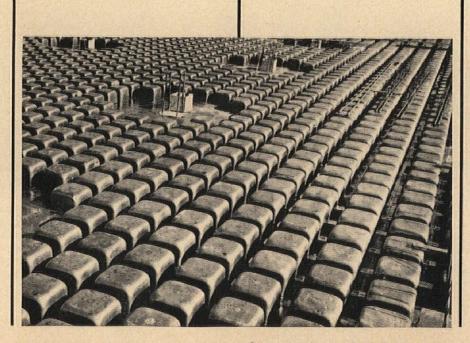
October 1966





You can get a pancake to stay flat by using more batter. But the extra materials and the overcooking add to the cost of the breakfast.

Reinforced concrete floors are similar. Use a waffle system and you stiffen the floor. The deeper the square voids in the waffle system, the stiffer the floor



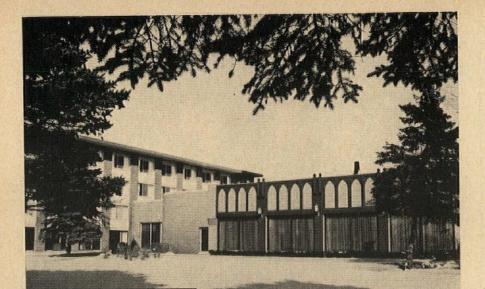
On Readers' Service Card, Circle No. 339

and the more materials saved... And the farther apart you can place the columns without overloading the system.

Appropriately, we do our waffle forming on a flat fee. This usually proves to be much less than the general contractor would spend to form the floors himself. With a Ceco quotation, you and your contractor have a firm cost before building starts. There are no variables such as insurance, overhead, labor, lumber, and form conditioning. The Ceco quotation includes all these. Your contractor is not subject to a sudden pilling up of hidden costs. Tell him so.

Get full particulars about Ceco's Steeldome Service, for you and your contractor. Write for literature. Also see Ceco's Steelform catalog in Sweet's. The Ceco Corporation, general offices at 5601 West 26th Street, Chicago, Illinois 60650. Sales offices and plants in principal cities.





Another Webster installation Sheraton-O'Hare Motor Hotel Des Plaines, Illinois

Three separate Webster area paging and public address systems are used at O'Hare. A small intercom system is also part of the installation.



Webster sound components are cased in a free-standing equipment rack on each floor. Permits flexible control of sound for each area. **FROM WEBSTER:** all the advantages of a custom installation with standard components

Webster Sound gives your clients the widest choice of standard voice and program distribution components available today. And because each is physically and electronically matched to the other, it's easier and more economical to build a custom system.

Webster components provide multiple sound services in a single system. If the project calls for it, you can blanket a multistory building with background music, page any selected area, monitor unsupervised locations, signal, or converse with two-way intercommunications. A Webster sound system can be planned to provide for today's needs, yet expanded tomorrow without making present equipment obsolete.

making present equipment obsolete. Modular design of components permits custom assembly of the features required, in either free-standing or wall-recessed equipment racks. Easy accessibility means faster servicing or system changes.

See your Webster Electric distributor\* on your next project. Let him plan in a custom installation with standard components. Or, write direct for details. \*Listed in Yellow Pages

Free — portfolio of case history reports covering large and small installations. Illustrates and describes intercommunication problems solved with modern Webster equipment.

COMMUNICATIONS DIVISION



subsidiary of Sta-Rite Industries, Inc.

PRIVATE DIAL TELEPHONE . LOUD-SPEAKING INTERCOM . SOUND & PAGING SYSTEMS . TEACHING LABORATORIES

On Readers' Service Card, Circle No. 448

BC, Bigelow-Sanford, Inc., 140 Madison Ave., New York, N.Y. Jose, Calif. *Circle 214, Readers' Service Card* 



**Cove base** and floor tile brochure gives sizes and color chips. Rubber cove is available in 53 colors — both solid and "marbleized." Rubber tile is marble- or terrazzo-patterned, chip-type, or a recently added <sup>1/8</sup>"-thick tile with a travertine pattern (shown). Brochure also illustrates vinyl tiles, and includes floor covering comparison table. 8 pages. Burke Rubber Co., 2250 S. 10 St., San Jose, Calif.

Circle 215, Readers' Service Card

## FURNISHINGS

Ilsa de Sol stoneware from Puerto Rico is illustrated in a 19-page brochure. Shown are hanging planters and lamps, candle holders, sculptured figures, and vases. Natural ware is an orangebrown that contrasts or blends with a variety of glazes (among them matte turquoise blue, semi-matte lemon yellow). Orders for special designs accepted. Carolina Craft Center, P.O. Box 38, Carolina, Puerto Rico 00630.

Circle 216, Readers' Service Card

Kentile floors are illustrated in a 27-page color brochure of room settings, which shows the variety of textures available in the line. Tiles are of solid vinyl, asbestos, asphalt, and cork; they come in 9" and 12" squares, and as planks measuring 4" x 36". Choice of 340 colors and 50 styles. Among available textures are tiles that simulate gravel, especially suited for installation near pools. ("Ripple Chip" looks like stone-chips seen beneath

## a specification from Hillyard ...

## FOR SEALING AND CURING NEW CONCRETE AND TERRAZZO

## PRODUCT NAME: HILLYARD CEM-SEAL®

## DESCRIPTION:

CEM-SEAL is a modified chlorinated rubber in a volatile aromatic solvent. It forms a clear membrane surface barrier that holds the moisture in the mix for a prolonged curing period to complete hydration. Produces water-tight, dense, hard concrete. At the same time, it protects against the penetration of moisture, stains or other soil as other trades complete construction. CEM-SEAL can be used on vertical installations.

## SPECIFICATION AND HOW TO APPLY:

One man, who need not have special training, can apply CEM-SEAL with a sheepskin applicator or ordinary sprayer. CEM-SEAL can be applied as soon as the slab can bear weight, and dries traffic-ready in four hours.

#### COVERAGE:

500 to 700 square feet per gallon. Only one coat needed.

## ADVANTAGES:

Resilient floor tile, paint or surface finish may be applied when slab is thoroughly dry (free from moisture) and providing that preparatory steps are carefully followed.

## SAVINGS:

Man hours and material costs are greatly reduced when compared to curing methods using—wet spraying, covering with building paper, wet sand, straw. burlap or plastic membrane.

## **EXCEPTIONS:**

Do not use Cem-Seal on concrete slab that is to receive Bonded or Monolithic Terrazzo.

## TECHNICAL DATA:

NVM - 20%. Complies with ASTM C156-55T, water retention efficiency of liquid membrane-forming compounds for curing concrete. Also conforms to ASTM C309-58 Type I as required by the National Terrazzo and Mosaic Association. Pittsburgh Testing Laboratory: Water Retention at 3 days—Average of 3 controlled tests—98.38%.

#### **GUARANTEE:**

When applied in accordance with manufacturer's directions, it is guaranteed to meet all claims made for it in the proper curing of concrete and terrazzo floors.

#### **MAINTENANCE:**

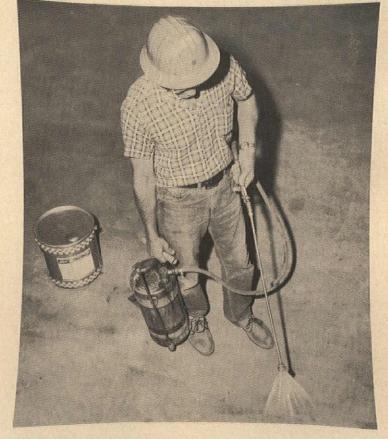
This is not a wearing surface but will leave concrete smooth and easy to maintain and free from "dusting" and efflorescence.

#### **REFERENCES:**

Hillyard A.I.A. File No. 25G A.I.A. Building Products Register Sweets Architectural File.

HILLYARD FLOOR TREATMENTS

A trained professional Hillyard Architectural Consultant will demonstrate CEM-SEAL for you, at no obligation. He serves "On Your Staff—Not Your Payroll." Write, wire or call collect.





HILLYARD

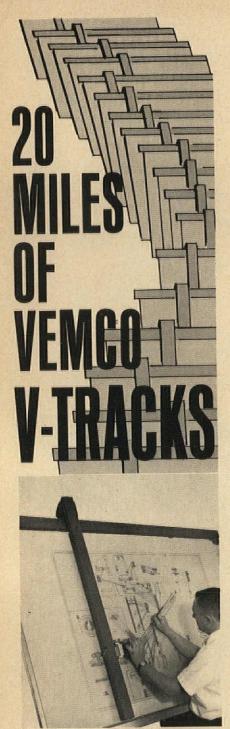
## Since 1907

St. Joseph, Missouri, U.S.A. Totowa, New Jersey 

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The Most Widely Recommended and

Approved Treatments For Every Surface



That's about the amount of 'track' used in the VEMCO V-Track Drafting Machines being sold in 1966. Twenty miles: the distance from Boston to Brockton, Atlanta to Marietta, Dallas to Ft. Worth, Los Angeles to Whittier. If you aren't one of the 20,215 happy, highly efficient V-Track engineers daily producing more drawings of higher accuracy at lower cost with less fatigue, you'd better switch onto the right track...the VEMCO V-Track. Your free ticket to a better station up the line is the new 16-page brochure CBG66 and price list of all VEMCO products. Write or phone

V & E MANUFACTURING CO. 766 South Fair Oaks Ave., Pasadena, Calif. 91105 Telephone (213) 681-6796



On Readers' Service Card, Circle No. 474

flowing water.) One amusing idea is pegged cork planking. Catalog also describes products useful for upkeep of various materials. Kentile Floors Inc., 979 Third Ave., New York, N.Y. 10022. *Circle 217, Readers' Service Card* 

Visit Italy and France by placing French terra cotta and Italian quarry tile underfoot. A folding color brochure illustrates 11 imported varieties ("Ecaille Grand," 55/8" x 6" x 1/2", resembles fish scales; "Trefles de Provence," 9" x 6<sup>1</sup>/<sub>2</sub>" x <sup>1</sup>/<sub>2</sub>", brings to mind cool cloisters), each given a rich "Old World" patina by oiling and waxing. Tiles are said to need no maintenance, even when used outdoors in freezing climates. Instructions for installation available. County Floors Inc., 214 E. 26th Street, New York, N.Y. 10010.

Circle 218, Readers' Service Card

Library furniture and equipment are extensively illustrated in a catalog of almost 100 pages. Eye-catching is a round carrel study table for three (48" or 54" diameter, with 20"-high divider panels). Also, a system of bracket-hung shelving for perimeter or free-standing use called "Delineator. Swatch cards showing range of plastic laminates and baked enamel colors are available, together with specifications booklet. The Weinberg Corporation, Library Division, 145 W. Columbia Ave., Philadelphia, Pa. 19122.

Circle 219. Readers' Service Card

## INSULATION

Vest-pocket calculator compares the efficiency of various built-up roofing materials for reducing size and operational cost of heating and cooling equipment. Three common roof-ceiling systems (using gypsum, metal, or concrete decking) are constant; variables are five types of insulation in varying thicknesses. Calculator shows corresponding heating/cooling equipment costs and annual fuel costs. An evaluation work sheet is



## "It's good business to help colleges"

"The greatness of America stems importantly from our many fine educational institutions, and industry is critically dependent on their graduates.

"The du Pont Company hires a large number of college graduates each year. As these employees gain business knowledge and experience, they supply tomorrow's need for managers and leaders of our Company.

"In 1966 we will grant \$2,200,000 to 213 colleges and universities in all parts of the nation to help them educate leaders of the future. This represents the largest grant in the 48-year history of the du Pont Company's Aid-to-Education program."

Lammot du Pont Copeland, President, E. I. du Pont de Nemours & Co. (Inc.)

A major problem in the education of students is rising costs. If companies wish to insure the availability of college talent, they must help support colleges with financial aid.

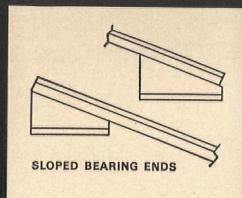


SPECIAL TO CORPORATE OF-FICERS – A new booklet of particular interest if your company has not yet established an aidto-education program.Write for: "How to Aid Education – and Yourself", Box 36, Times Square Station, New York, N.Y. 10036



Published as a public service in cooperation with The Advertising Council and the Council for Financial Aid to Education

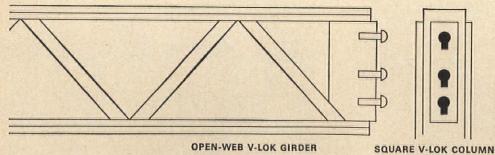
Macomber does a lot of little things to help architects and builders do a better job ... for example:

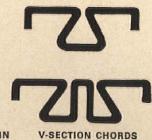




BENT BEARING END

Macomber representatives can provide architects and builders with more building for their dollar. This is no idle boast, but fact based on thousands of construction jobs. Macomber representatives are experienced building people who work closely with architects and builders in providing their clients with a custom-steel-framed building that exactly suits the need, as well as getting the most usable area from the site. Macomber V-LOK® open-web framing systems have become extremely popular because they combine maximum strength and flexibility with ease of erection. V-LOK can be modified to meet almost any requirement, including the systems approach.



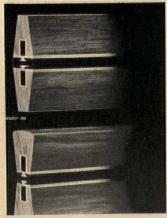


Prove it to yourself. Talk to the Macomber man in your area and discover how a sturdier custom-steel-framed building can be built to meet any specific style and set of requirements at costs equal to or even below other types, including prefabs. Literature and name of nearest representative upon request.



also included. Owens-Corning Fiberglas Corp., 717 Fifth Ave., New York, N.Y. 10020. *Circle 220, Readers' Service Card* 

## SPECIAL EQUIPMENT



Balustrades and newel posts in aluminum and walnut are cataloged in a host of profile designs for post and rail with wood, glass, or grille screens. Low-cost pipe railing systems are also shown. Comprehensive illustrations include both photos and dimensioned details showing railing systems and installation. Short specifications, typical applications, full-size sections, and accessories (rail terminations, brackets, couplings) are included. 170 pages. Blumcraft of Pittsburgh, 460 Melwood St., Pittsburgh 13, Pa.

Circle 221, Readers' Service Card

Ventilated athletic lockers for school gymnasiums, athletic clubs, and other institutional installations are fabricated from heavy gage steel mesh in 10 baked-enamel colors. Full-length or tiered locker styles are shown with sized drawings, photos, and descriptions. 8 pages. DeBourgh Mfg. Co., 9300 James Ave. South, Minneapolis, Minn. 55431.

Circle 222, Readers' Service Card

Josam interceptors save river and stream from pollution by oily wastes. Water containing wastes flows through a separating unit where sediment settles in a removable waste bucket and lighter substances, such as oil, rise to the top and are skimmed off through a drain line. 95% of the oils are retrieved and can be reused, reports manufacturer. Specialized information is available from the company's Pollution Control Center whose reference files go back 50 years. Descriptions and dimension charts, suggested layouts for installation in various types of industrial plants. Also installation details. 14 pages. Josam Mfg. Co., Michigan City, Ind. 46360.

Circle 223, Readers' Service Card

## SURFACING

Two vinyl wall coverings, B. F. Goodrich's "Koroseal" for Gilford Inc., are displayed with swatches on 2-page color card: "Marked Tree," a filmy cork design in 12 restful pastel and natural shades, one of which resembles birch bark; and "Karachi"—approximating rough-woven burlap, in 20 colors, including quiet bieges, cool greens, warm oranges. Gilford Inc., 387 Park Avenue South, New York, N. Y. *Circle 224, Readers' Service Card* 

Geometric clay squares with surface relief designs are presented for use on interior and exterior walls (water walls, murals, facades, sculptures). Ten basic types of designs are available in a variety of clay colors and stoneware glazes. Close-up as well as over-all installation pictures are included with specifications in 11-page brochure. Design Techniques, 160 East 56th St., New York, N. Y. 10022. *Circle* 225, *Readers' Service Card* 

## PROGRESSIVE ARCHITECTURE

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# FINK DOME

A unique structure for architectural and industrial uses — designed to exacting tolerances, accommodating large vertical loads. Highly versatile as convention hall, arena, theatre, etc. Proposed dome shown is 900-ft. dia. at base and used as covering for existing ball park. For more information, forward to us the approximate size, required interior loads, together with details of application and surrounding

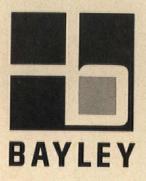
terrain characteristics to: General Conveyor Inc. of N. Calif., General Domes Div. 1821 Mt. Diablo Blvd., Walnut Creek, Calif. or Phone (415) 934-9121.



# Shaky windows

Why should the architect check the financial strength of any component supplier? Because two kinds of risks threaten: building components may be cheapened below the intent of the specifications; inadequate capital and production facilities may delay deliveries beyond the financial peril point. Taken together, **everyone** connected with the project gets a black eye.

The William Bayley Company is financially sound, with the ability as well as the desire to meet responsibilities for quality and customer satisfaction. We deal solely with suppliers of integrity. It is the only way we know to build the finest windows and assure on-time delivery. This policy does not lower window prices, but it certainly has built repeat business. Solid windows result from responsibility. **THE WILLIAM BAYLEY COMPANY,** Springfield, Ohio



## Triangles... More design flexibility with Therm-O-Proof insulating glass

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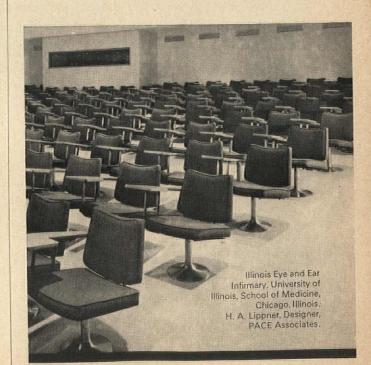
warranty.



## this is CHF

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At the ripe old age of <u>two</u> this building was recaulked with G-E Silicone Sealant.



## (The original caulk couldn't stand the weather.)

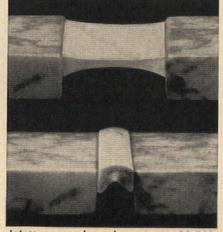
Was it the Florida heat or a hurricane named Dora?

Chances are, both caused the . polysulfide caulk in this Florida hospital to break down in just two years. (And it was guaranteed for five!)

Now, General Electric's Silicone Construction Sealant is doing the job. It's providing superior protection day in and day out. And it'll survive Hurricanes Dorothy, Dolores, Donna and Dinah!

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Because it's permanently flexible silicone rubber, it withstands severe expansion and contraction cycles. It won't crack, crumble or leak with age. And it's also permanently waterproof.



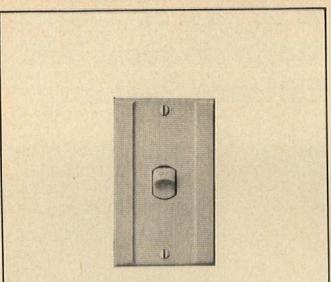
Joints expand and contract 10,950 times in 30 years. So will G-E Silicone Construction Sealant.

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So recaulk with G-E Silicone Construction Sealant. Or use it from scratch and forget about recaulking. It comes in standard caulking cartridges and a range of permanent colors.

For more information and color swatches, contact your G-E distributor or write: Section Q10239, Silicone Products Department, General Electric Co., Waterford, New York 12188.





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**GLOWS IN DARK** Luminous plastic button is charged by exposure to any light source, glows all night long.

DEPENDABLE, POSITIVE ACTION Extra heavy silver buttons mounted on vertical contact arms at point of least vibration for troublefree, long-life operation . . . meets Federal specifications.

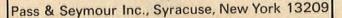
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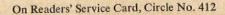
EASILY INSTALLED No change in operating habits or wiring methods needed.

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Compared to 30 lbs. s.f. 3" thick required for terrazzo.

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TRAZOPOXY'S resiliency eliminates floor crack problems. Can be applied to flexible long spans and bridgings.

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## a LIFETIME of BEAUTY in a laminated plastic paneling



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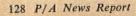
Rugged outer layer of a continuous process polyester laminate provides a tough surface impervious to stains, scratches, heat, and wear; easily maintained—wipes clean with a damp cloth. Lamidall offers all the indestructible beauty and counter-top quality of high pressure laminates at about 1/3rd the cost.

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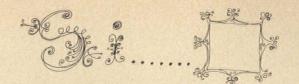


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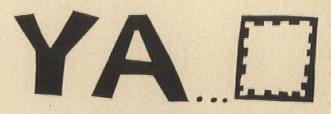
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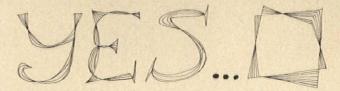
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NEIN .....



No......



## SQUARE ......

#### HEALTHY

The Kennedy Administration gave definition and impetus to a new kind of health building, the community mental health center. Now, a number of these centers have been developed and can be studied for their possible influence on the design of mental facilities. Four are discussed in November: in California, Ohio, Florida, and New York.

#### WEALTHY

A source of untold (and virtually unearned) wealth is the way the interior design field has often appeared to the architect. In "Truth and Beauty," Zonk, P/A's renowned savant and delineator, will dissect that industry and see what makes it tick all the way to the bank.

#### AND WISE

Architects who strayed away from the folderol at the Denver AIA Convention may have seen a couple of the most interesting new educational complexes of recent years: the Engineering Science Center and the Marine Student Housing of the University of Colorado at Boulder. A lavish pictorial critique in next month's issue will present these designs fully.

#### WE HOPE

you are healthy and wealthy ... we know you will be wiser from reading the November P/A (there are many more features in addition to the few we mention here, of course) and all the other forthcoming editions. All you have to do to have your consciousness expanded by P/A is fill in the subscription card (see Contents Page for location), send it in to our Circulation Manager, and get set for 12 stimulating issues of **PROGRESSIVE ARCHITECTURE.**  SHOWERING IN THE ROUND... A UNIQUE SHOWER ROOM CREATION STARRING

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