NEW HEAD FOR MOMA

NEW YORK, N.Y. Starting July 1, 1968, Bates Lowry will become Director of the Museum of Modern Art. Lowry, 43, will move to his new post from Brown University, where he is currently chairman of the art department.

Rene d'Harnoncourt, present director of the museum, reached mandatory retirement age, 65, last year, but stayed on at the request of the museum's trustees until a successor could be found; he will now remain until July 1968.

Lowry, who went to Brown as a professor in 1963, has been editor of The Art Bulletin and the College Art Association Monograph Series since December 1965. He was the founder of the Committee to Rescue Italian Art.

Also retiring from the Museum of Modern Art is Alfred H. Barr, Jr., who, since 1947, has been Director of Museum Collections, and who was the museum's first director, from 1929 to 1943. No one will succeed Barr. Instead, the individual curators will assume his former responsibilities in their particular fields.

IF YOU CAN'T BEAT IT, JOIN IT

DETROIT, Mich. From the motor capital comes word that Ford and Mobil Oil are pooling resources to develop a fume-free internal combustion engine. The two corporations, which are leaving the door open for other participants, plan to sink $7 million into the project over a three-year period. According to a Ford spokesman, “It is expected that the study will lead to development of a fuel engine system that will virtually eliminate automobile emissions, with minimum cost to the consumer and minimal effect on car performance.”

The announcement came only months after Ford announced it was starting research on an electric car. (This research will continue.)

MORE HABITATS PLANNED

MONTREAL, CANADA. According to most architectural critics, Habitat is the outstanding architectural feature of Expo 67 (see p. 152). Shortly after the opening of the fair, P/A learned unofficially that negotiations were under way for at least four Habitat-like structures in three countries — two in New York State, one in England, and one in India. Moshe Safdie, architect of Habitat, will be involved in the projects. If these are built, the architectural promise of the fair will have begun to spread almost immediately.

KAHN PLANNING FOR NEW HAVEN

NEW HAVEN, Conn. Louis I. Kahn is the planning and architectural consultant for New Haven’s largest urban renewal project, Hill Central, which covers 714 acres. According to Mayor Richard C. Lee of New Haven, Kahn will design a community school and housing for public, elderly, low-income, moderate-income, and middle-income residents. He will also prepare the Hill Central Plan.

A temporary loan from the Department of Housing and Urban Development will make possible preliminary work, which includes clearing the area of substandard housing and junkyards.

AIR GATEWAY TO EUROPE

AMSTERDAM, THE NETHERLANDS. The first thing the Dutch tell a visitor to their glistening, spotless new Schipol airport, 6 miles out of Amsterdam, is that it lies 13’ below sea level. So does about half of Holland, on land reclaimed by dikes and pumps from the North Sea, making the news hardly startling. But Schipol’s connection with the sea is a close one. The name Schipol means a ship’s hole and refers to an area of what was once the Lake of Haarlem, where stodgy winds wrecked and sank dozens of ships. Holland’s ships, of course, once were masters of the seas, and with the opening of the new airport at Schipol, capable of handling 4 million passengers a year, Holland is taking steps toward participating just as extensively in the age of air transport.

The second thing the Dutch will tell you about Schipol is that it is the most modern airport in Europe. And it probably is. Opened officially last month by Queen Juliana, who, the day before, had become a grandmother for the first time, the airport is certainly the newest. Architecturally, it has no innovations. The passenger terminal, with its two sets of long, angular wings connected by a central concourse and with its movable loading ramps sticking out from the wings at regular intervals, looks from the air like a giant crustacean. In the U.S., of course, the trend in air terminals is away from this linear arrangement to a more compact oval or circular configuration. But Schipol, with a set of moving walkways to carry passengers briskly from the check-in gate to the loading area, loses nothing to inefficiency. Its loading ramps, which extend from the terminal to a fixed pivot, then extend from that to a movable support that can move the extension vertically and horizontally, allow two lanes of vehicular traffic to run beneath the ramp between the terminal and the first support. In that way, the entire ground-level perimeter of the terminal is accessible by vehicle. Moreover, the length of the ramps keeps the loading and unloading planes far enough from the terminal so that they can be serviced at their loading positions. At present, 22 aircraft can be serviced at the same time.

Included in the passenger terminal are a nineteen-story Airport Authority building and a 160’-high traffic control tower. There will also be what authorities claim is the largest tax-free shopping area of any air terminal on the Continent. And the National Aeronautical Museum, now in the old Schipol air terminal, will
... and all through the house ... SPANCRETE!

And that means that nothing stirs ... not a sound. Because Spancrete floor and roof systems muffle noise ... cut sound transmission from floor to floor (from 49 to 55 decibels)... and also eliminate those creaking and squeaking noises so common with wood floor systems. This is important in a town house, such as the one shown ... and it's even more advantageous in an apartment project.

Paint only was required for ceilings ... and floor coverings were applied directly over the Spancrete, providing economy along with attractive appearance of the exposed Spancrete ceiling.

Architects were particularly impressed with these Spancrete advantages:

1. Cuts down finish cost.
2. Gives rustic yet elegant look; ties into open stairway plan.
3. Light fixtures attached directly to Spancrete ceilings — using duct work in plank to carry wiring.

On Readers' Service Card, Circle No. 406
But work is not stopping there. Construction is underway on two more 11,000' runways (in addition to the two in operation) capable of handling the yet-to-come super-jets. According to expansion plans, Schipol will eventually have a capability of receiving 30 million passengers a year and processing 400,000 tons of freight.

In all, the new Schipol facility combined with the old one adjacent to it has 4000 acres of land — a vast expanse in a country the size of Holland. Yet there will be little waste. The government is arranging for farmers to work the unused land and to keep cows in walled courtyards now being constructed. Farmers will live in specially soundproofed houses not far away.

As might be expected, even Hilton Hotels is in on the act. Ground will soon be broken for the Hilton Schipol.

Architects for the airport were the Nederlands Ontwerpbureau voor Luchthavens, working with F. C. de Weger, M. Duintjer, L. Jonkers, and G. Oostveen.
HOPE FOR A VERMONT LANDMARK

MONTPELIER, VT. The Vermont legislature took a typically cautious step last month toward preserving Montpelier's venerable Pavilion Hotel. In authorizing $20,000 for a study of what to do with the building, the legislature at least partially acknowledged the severe protests over the building's suggested destruction put forth by a group of concerned Montpelier residents (see p. 60, April 1967).

During the day, of course, they serve to admit light. "The effect achieved," said the jury report, "is to make this building composed of different cubic forms look rather light and lively, and we believe this to be a new and intelligent use of aluminum." The jury, composed of Dean Jose Luis Sert, chairman, Dean John E. Burchard, Hans Hollein, William Morgan, and William Kessler, went on to note that "the volumes are appropriate and correspond to the different elements of the plan which make those volumes meaningful." At the same time, they cautioned against "the more or less fashionable multiple cube arrangement, when unrelated to plan or contrived at the expense of proper proportions and relationships of interior space."

The AIA is a joint sponsor of the program.

REYNOLDS AWARDS 1967

NEW YORK, N.Y. When Victor F. Christ-Janer of New Canaan, Conn., won this year's $25,000 R.S. Reynolds Memorial Award, he was only the third American to receive it in the Award's 11-year history. Presented yearly for "distinguished architecture using aluminum," the Reynolds Award for 1967 singled out Christ-Janer's design of the James F. Lincoln Library at Lake Erie College, Painesville, Ohio.

The building is a study in rectangles and squares, whose surfaces are color-enameded (off-white) aluminum. Hanging from steel framing, the 3"-thick aluminum panels (with a formed polyurethane core) extend beyond the wainscoting-high concrete perimeter walls.

Between the walls and the wainscoting at the bottom of the overhang are strips of glass that, at night, let through a certain amount of light, making the walls seem suspended in a soft glow. During the day, of course, they serve to admit light. "The effect achieved," said

WASHINGTON, D.C. The first R.S. Reynolds Memorial Award for Community Architecture earned $25,000 and an original sculpture for Cumbernauld New Town in Scotland. The $25,000 will be used to create a scholarship in community architecture. Since 1962, Dudley R. Leaker has been chief architect and planning officer for Cumbernauld, and, before that, the post was held by L. Hugh Wilson, who started with the program at its conception in 1956. Cumbernauld, which will eventually house 70,000 persons, is a satellite town for Glasgow, 14 miles away. Already the population is 23,000; 5500 homes are occupied and 50 industrial firms and 31 shops employ 4800 persons. The AIA jury called it "the most comprehensive project of community architecture to date." Jury members Morris Ketchum, Jr., Archibald C. Rogers, and John Fisher-Smith singled out five key features of the town: (1) its separation of pedestrian and

P/A. Hurt by competition from motels, the Pavilion closed its doors last September, and, although it was purchased by the state for possible use as an office building, funds for either its destruction or conversion have not been forthcoming. Vermont legislators do not spend money lightly and one can only hope they will decide to maintain an important reminder of the state's heritage.

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P/A News Report

June 1967
SPACE TO WORSHIP

LIVERPOOL, ENGLAND. The space capsule design of Liverpool's Roman Catholic Cathedral has excited comment and imitation ever since it was announced more than five years ago. Although the linking of outer space and God—"if that is what architecture means"—is an old concept, the linking of outer space and God—"if that is what architecture means"—is an old concept, he couched the thought in terms that have left many irate, others fairly well pleased.

Completed after a century of false starts, the cathedral cost $11,200,000 to build. Most of the money came from the people of Liverpool, though donations came from as far away as Australia and Trinidad. Monsignor Turner, 78, has been the chief fundraiser since 1936. One of his recent drives produced 1,600 rings, each 22 carats; he refused 9-carat rings because he believes only the best is good enough for God. Despite these inhibitions, he raised more than $5,600,000 for the cathedral that will be his memorial.

Merrill, five of whose entries were premiated.

Members of the jury who made the selections were: James M. Hunter of Boulder, Colo., Chairman; R. Max Brooks of Austin, Tex.; Vladimir Ossipoff of Honolulu, Hawaii; Joseph N. Smith of Atlanta, Ga.; and Philip Will, Jr., of Chicago, Ill. One of this year's most difficult problems, according to their report, was the recurrent one of balancing small, low-budget buildings against efforts backed by less limited resources—"the large, prestige structures. Recognizing the variety of motivating architectural philosophies among the entrants, the judges attempted to evaluate each building on the criterion of appropriateness to its objective, both functionally and aesthetically. Following is a list of the winning designs and firms:

- Ridgeway Men's Dormitories/Phase III, Western Washing-
who had gathered at the entrance of the park to march in to the conference site, seemed even smaller as they huddled inside their raincoats and under umbrellas. The procession was led by several electric, nonpolluting cars, followed by a nonpolluting city bus, which had been pulled off its experimental city run for the day. Bringing up the rear were two newly designed Sanitation Department trucks. Also representing the Sanitation Department and the city, the band, drowned out by the rain, played unidentifiable music. It was like most conferences: No one could hear anyone else.

Perhaps one of the most striking things to come out of the conference was a 20th-century chair. Designed from a cardboard beer case by Ronald Beckman and Howard Yarme of the Research and Design Institute in Providence, R.I., it provided seating for the conferees. According to its designers, it does have a certain basic utility: "Like, you can always use one to carry two cases of beer."

One evening, participants were to play a social game called "Symposi." It was to involve a re-enactment of city politics during an election year. We don't know how it went; we didn't wait around to find out.

The Design-In, as the conference was called, was sponsored by New York University's School of the Arts, the New York Chapter of the Industrial Designers Society of America and by the city's Parks Department.

UNIVERSITY OF TEXAS NAMES NEW DIRECTOR

AUSTIN, TEX. Alan Y. Tani­guchi will become Director of the School of Architecture at the University of Texas on September 1, succeeding Philip D. Creer. Creer will return to full-time teaching. A member of the Texas faculty since 1961, Tani­guchi received his B.A. degree in architecture from the University of California at Berkeley in 1949 and was associated with architectural firms in San Francisco until 1951, when he established a practice in Harlingen, Tex. At the university in Austin, he was appointed chairman of design in 1962 and became a full professor three years later.

He has for several years combined a teaching career with private practice. Last year, on leave of absence from the university, he represented the firm of Brooks, Barr, Graeber & White on a feasibility study for the U.S. Department of Labor Building and worked on master plans for the university's campuses.

CORRECTION

Artist-Architect J. Gordon Carr's name was incorrectly given on p. 64 of the April 1967 P/A as J. Walter Carr.

NEW YORK ART SOCIETY PRESENTS AWARDS

NEW YORK, N.Y. The Municipal Art Society, an organization devoted to the recognition and furthering of the visual and performing arts in New York City, last month presented its highest award, the Bronze Plaque, to Rits Houses Plaza, by architects Pommerance & Breines and landscape architect M. Paul Friedberg. At the society's 75th annual meeting, president Ruth McNeny Loud conferred the Plaque and five additional awards on the creators of projects in architecture and the visual arts. An awards committee headed by P/A Senior Editor James T. Burns, Jr., nominated the following projects and groups to receive scrolls: The Downtown Lower Manhattan Plan, executed for the City Planning Commission by Wallace, McGharr, Roberts & Todd and Whittelsey, Conkin & Rossant with Alan M. Voorhees & Associates, Inc.; Thomas P.F. Hoving and the design and planning staff of the New York Department of Parks; and Meeting House Foundation, formed by Benjamin Sonnenberg, Jerome Straka, and Armand Erpf for the preservation of Friends Meeting House, a notable city landmark. Architects Kelly & Grizen and landscape architect M. Paul Friedberg accepted Certificates of Merit for their design of Chatham Towers, a middle-income housing project. The Anon­ymous Art Recovery Society and the Brooklyn Museum also received a Certificate of Merit, the one for its efforts in collecting and restoring decorative artifacts of architectural interest, and the other for providing a home for these objects.

Members of the selection committee for the Society were Congressman James H. Scheuer, Emory Lewis, editor of Cue magazine, Wilder Green of the Museum of Modern Art, Samuel Brody, partner in the architectural firm of Davis, Brody & As­sociates, and Brendan Gill of The New Yorker magazine.

REYNOLDS' ALUMINUM FAÇADE

RICHMOND, VA. The Reynolds Metals Company is not only aware of good architectural design, but is also trying to spread that awareness. Through the yearly Reynolds Award for design in aluminum, the company has succeeded in calling widespread attention to the use of aluminum in architecture. And now that it is constructing a new office building for its own use, we can assume that it wishes to use the offices as an example. To paraphrase Marshall McLuhan: The building is the message. Shown above is the design solution. Although it is not likely to win a Reynolds Award, it seems a sound, workmanlike building.

Designed by three firms associated for this project — Marcellus Wright & Partners and Baskerville & Son, both of Richmond, and Skidmore, Owings & Merrill of New York — it will have a reinforced concrete frame sheathed in aluminum and glass. In its six stories, it will provide 247,000 sq ft of space for 1000 employees now located in several offices throughout Richmond. An adjacent parking lot will handle 700 cars. Its 16-acre site is located just to the north of Reynolds' general office building; the two structures will be connect­ed by a 600' tunnel. Completion is expected in the fall of 1968.

COMPETITIONS

The 1967 Cintas Fellowships are available to architects who will be selected from applicants of Cuban citizenship or lineage. Program is sponsored by the Institute of International Education and offers a total of six grants. Applications will be accepted until July 1. Forms are available from IIE, 809 United Nations Plaza, New York, N.Y. 10017. . . . Also under the aegis of the IIE is a competition for 1968-69 U.S. Government Graduate Grants, awarded for academic study or research abroad. Applications must be submitted before October 16 to IIE.
THE SKYCRAWLER COMES OF AGE IN TOKYO

TOKYO, JAPAN. A proposed 30-story office building (for the Tokyo Fire and Marine Insurance Co., Ltd.) in Tokyo’s Marunouchi section, overlooking the Imperial Palace, is the focus of a controversy that in a way points up the growing pains common to so many cities — even a city of 10 million persons. Although the city rejected the building proposal in mid-April, an appeal of the ruling is pending, and, despite the delay unless special legislation is forthcoming, Tokyo will eventually go high-rise.

Traditionally and historically, architectural expansion in Japan has been horizontal, not vertical. Like most Americans, most Japanese have long yearned for a detached single-family house to call home. One result is that average height of Tokyo buildings is a lowly 1.4 stories.

Some High-Rise Since 1964

Multistory office buildings are by no means new to Japan, but from 1920 to 1964 the maximum height of a building was set at 102’. Although fear of earthquakes was one reason for imposing that ceiling, another reason, perhaps equally important, was that that was the limit for Victorian London and as such was considered an ideal by early Tokyo planners.

For years during the postwar period, architects and planners expressed dissatisfaction with that limit, no longer practical from the viewpoints of urban economics and engineering techniques. When the restriction was rescinded, Japan’s economy was ready for a Skyscraper Age, even if a small-scale one by Occidental standards. The height limit for buildings in the Marunouchi, near Tokyo Station, is now determined by a volumetric rule similar to the one that helped make possible New York’s Seagram Building. There is a limit of 10 above-ground stories (two, three, or more below-ground stories are common in Japan today) if the entire site is used for building; if only one-third of the building to sway a bit and ride out an earthquake twice as severe as the El Centro (California) quake of 1940, which was three times as strong as the quake that devastated Tokyo and Yokohama in 1923.

Should We, or Shouldn’t We?

But Tokyo is unable to avoid growing pains as the city expands upward. The trouble started last October, when Tokyo Fire and Marine Insurance applied to the city for permission to build their 30-story building (with 5 more stories below ground) on the site of the firm’s outdated, one-story, single-story building in Marunouchi. One hitch is that the proposed building would face the Imperial Palace, and from upper stories or the roof, it would be possible, some say, to peer into the Imperial Palace grounds. The Emperor today is no longer divine, but is still the object of great respect — more, it would seem, than that accorded the Queen of England. Invasion of Imperial privacy is a serious matter to many, especially of prewar generations. The second aspect of what has developed into a major controversy is that Marunouchi had been designated as a “scenic area,” and some people feel that construction of a high-rise building there would destroy the area’s beauty. This is the viewpoint of the Tokyo metropolitan government, which attempted to take up legislation giving a city-appointed commission control over the design and surface finish of buildings in the “scenic area” in general.
codes permit a total floor area of 100% of the total site, providing open space is preserved at street level. Maekawa's proposed building has an area of 91.95% of the "combined" site. Preparation of an appeal of this ruling was started at once, and the controversy continues. — MARTIN COHEN of the "Japan Times"

LEVINE LEAVENS
THE LEAGUE

NEW YORK, N.Y. Throwing off more than a decade of ingrown somnambulism, the Architectural League is swinging hard to prove that it is not only in step with the times, but even, perhaps, slightly ahead. Attracting a good bit of attention last month was one in a series of environmental exhibits the League is sponsoring. Called "Slipcover," it consisted of three rooms whose walls, ceilings, and floors were covered with a mirror-finished metalized polyester film. Shimmering off the mirror-like surface were colored lights and images thrown from six slide projectors, showing New York architecture, the lights of Broadway, and portraits of the artist, who is a young man.

Both the images and the dimensions of the room are constantly changing. Each wall covering is loosely mounted on a wooden frame; fans behind them billow out, like giant air-filled Baggies, hover momentarily, then, when the fan turns off, deflate slowly. The artist, Les Levine, who was born in Dublin and who looks a little like an Irish pixie, means his rooms to achieve the ultimate in changability. He intends them to be disposable. "When you tire of it," he says, speaking of the polyester lining, "you rip it off and throw it away."

Levine first created Slipcover for the Art Museum in Toronto.

Also on display last month, on the garden terrace of New York's Museum of Modern Art, were four Levine bubble rooms. Seven ft. high, they create a dreamlike environment for viewers who, standing in the room, can look out through the clear plastic to the museum's garden and to the high-rise buildings beyond it.

THE PHOTOS ARE MOBILE

GUILDFORD, CONN. It's such an obvious idea, why hasn't someone done it before? Now that architectural photographer Bruce Cunningham-Werdnigg has done it, the answer—and indeed the question—is academic. His Photo-Mobiles are merely six photographs of a building, taken from different angles, glued to expanded polystyrene...
APARTMENTS

High-rise apartment designs can have greater floor planning freedom and reduced structural costs when the Prescon System of post-tensioning prestressed concrete becomes part of the engineering. Examples are rising everywhere, as any Prescon representative will proudly show you.

A Total Saving of $177,000.00 — by use of post-tensioned 5" flat plate construction instead of mild steel reinforced 6" flat plate, was accomplished in the construction of the Arlington, Virginia's 360-unit Dolly Madison Apartments. Preliminary investigations leading to the decision to use post-tensioning indicated a 10-cent per square foot savings over a mild steel flat plate. During design, other savings became apparent, such as in columns and caissons due to reduction of dead load; in elimination of beams at openings; in elimination of 790' of expansion joint and its double column; reduction of steel and concrete costs; in associated labor; and in the masonry.

One of the most interesting aspects of the project was the ease with which it was built — 13 floors in 13 weeks and one day on a scheduled $37,724 square feet of concrete floor area every 5 working days. A detailed analysis of the structure and economics of this magnificent apartment has been prepared by Robert L. Meyer of the structural engineering firm Horatio Allison Associates. Write for your copy.

Architect — Sheridan, Bohn & Associates
Owner/Builder — Dittmar Company

The Eichler Summit 30-story apartment building (San Francisco) has completely column-free living areas. It is thought to be the tallest concrete building west of Chicago. The 10" floor slabs are post-tensioned in the 35' direction by Prescon tendons, with reinforcing steel in the other direction. Bays are 35' x 104'. The first six floors are for parking and the lobby. An unusual design feature includes the tapering-in of the upper part of the nine columns while the cantilevered post-tensioned floor slabs project out farther, so that the structure flares outward and is wider at each succeeding level.

Owner — Eichler Homes, Inc.
Architects — Neil Smith & Assoc.; Claude Oakland, Associate Architect
Structural Engineer — Stefan J. Medwadowski
Contractor — Eichler Homes, Inc.

Post-Tensioning Allows Floor Plan Flexibility — Lowers Structural Costs

Post-Tensioned Flat Slab Construction — used in this San Mateo, California senior citizen's apartment project, (The Park Towers) substantially reduced the final cost per square foot. Greater column spacing achieved by the post-tensioning technique provided the architect with greater interior design freedom — the resultant lighter weight structure enabled him to achieve an unusually clean-cut exterior. Cost per square foot for structural framing system was $4.018.

Extended economics will be enjoyed by the owners in reduced maintenance costs, made possible by control of damaging slab deflection.

Architect — Delong, Zahn, Associates
Contractor — Carl W. Olson & Sons, Inc.

Park Towers Apartments — utilized a number of innovations in the construction of their 8-story building overlooking Corpus Christi Bay. This was the first structure in the United States to combine load bearing masonry walls supporting a one-way post-tensioned slab. The floor system consists of 7" thick one-way continuous slabs, post-tensioned over 26' spans, with an overall dimension of 58' x 180'. Tendons are eight 1/4" wires maintained in flat parallel by special clips. Post-tensioning was applied by a new technique which enabled the tendons to be stressed at approximately the midpoint of their length — eliminating the usual anchorage projections and the need for stressing platforms and scaffolding.

Total savings from the use of flat, centrally stressed post-tensioning were computed to be over $5,000.00 per floor.

Architect — Walter Wisznia
Engineer — W. Clark Craig

Modern apartment design requires up-to-date engineering to combat rising costs and to provide the free spans and column spacing necessary for efficient space utilization. Post-tensioning provides these and many other advantages.

Some of the more recent apartment structures are shown here to give some indication of the flexibility and economy already enjoyed by some of the country's leading builders. For more complete examples and technical information, write for literature — or contact a Prescon representative.

The Prescon Corporation

General Offices: 502 Corpus Christi State National Building
Telephone: 512-882-6571, Corpus Christi, Texas 78401

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On Readers' Service Card, Circle No. 394

June 1967
backing and arranged in a polyhedron, which is almost a cube. A slight overlap in the edges of the structure, which is hung on a thread, help it catch air movements and rotate with them. As the polyhedron turns, a different view of the building comes into view. Cunningham-Werndigg currently makes some of his Photo-Mobiles with an acrylic top and bottom and one side. This arrangement provides light inside the cube, where he displays three interior shots of the building. The effects are virtually endless.

A MIGHTY FORTRESS IS MY CHURCH

LOS ANGELES, CALIF. Just what motorists on L.A.'s Wilshire Boulevard will make of St. Basil's Church when it is completed here in early 1969 is uncertain, for its stalwart, unadorned façade will have little in common with the swooping neon parabolas and other eye-catching gimmickery of current southern California building. Architect-engineers Albert C. Martin & Associates based their design on precepts of church design prevalent in the Third and Fourth Centuries: heavy masonry walls, a fortress-like composition of towers, and a lack of external embellishment. Martin's model shows a façade of 12 textured concrete towers, whose walls are sliced slabs, separated by dramatic window slices about 70' high and from 3' to 6' wide. Surrounding the sanctuary is a trio of 150'-high towers; the narthex window above the entrance will be 14' wide. With an interior length of 170', St. Basil's will seat more than 1000 parishioners. Directly behind the church will be a three-story rectory, with living quarters, offices, and conference rooms. The site is two acres in the midst of high-rise office buildings.

PERSONALITIES

Five architects from foreign countries have been elected to Fellowship in the AIA. They are: Alfred V. Alvares, vice-president of the Hong Kong Society of Architects; Viscounlisher, English architect and town planner; Charles Fowler, of Halifax, Nova Scotia, Canada; Junzo Sakakurin, member of the committee for the planning of the 1970 World Exposition in Osaka, Japan; Karl Schwanzer, dean of the Faculty of Constructional and Architectural Engineering at the Technical University of Vienna, Austria... The University of California at Berkeley announces the appointment of William L.C. Wheaton as Dean of the College of Environmental Design... James W. Rouse, Baltimore, Md., developer and banker, has succeeded the late Stephen R. Currier as president of Urban America, Inc. Newly elected trustees of the organization are: Lawrence Halprin, San Francisco landscape architect; Thomas P.F. Hoving, director of New York's Metropolitan Museum of Art; George Russell, executive vice-president for finance of General Motors Corp.; Lelan F. Sillim, Jr., president of the Central Hudson Gas & Electric Corporation of Poughkeepsie, N.Y.; John G. Simon, president of the Taconic Foundation; and Whitney M. Young, Jr., executive director of the National Urban League... Robert R. Garvey, Jr., will take office July 1 as Executive Secretary of the newly created Advisory Council on Historic Preservation. The Council will function under the administrative auspices of the National Parks Service... Alan C. Green, associate professor at the School of Architecture of Rensselaer Polytechnic Institute, has been elected secretary of Educational Facilities Laboratories... Auburn University has announced the appointment of William H. Guerin as architect and campus planner... On July 1, L.M. Van Doren will assume the duties of president of the National Society of Professional Engineers. Van Doren is a partner in a Topeka, Kansas, firm of consulting engineers... California's Governor Reagan has named Charles Luckman to serve on the Educational Commission of the States... Melvin R. Lohmann, dean of the College of Engineering at Oklahoma State University, is the new president of the American Society for Engineering Education... The Construction Specifications Institute has named Larry Craig Dean of Atlanta, Ga., director of its fourth region, covering North and South Carolina, Florida, and Georgia.

GRUEN HELPS KANSAS CITY STAY UP-TO-DATE

KANSAS CITY, MO. Kansas City and Green Bay sent their professional football teams to Los Angeles to play in the Super Bowl in January. Victor Gruen Associates of Los Angeles sent a professional planning team to Green Bay and to Kansas City to plan downtown redevelopment projects. The Green Bay plan was completed in the early 60's. The plan for Kansas City's "urban sub-center," as Gruen calls it, was announced early this year. It covers 85 acres about a mile from the downtown core of the city, an area long owned and used as a corporate site by Hallmark Cards, Inc. In 1961, Hallmark decided to put some of the area to a different use, and formed the Crown Center Redevelopment Corporation to carry out the $100 million conversion program. Gruen's plans provide for 2500 multi-story and terraced-garden apartment units. Several high-rise office buildings provide more than 1,000,000 sq ft of space; one of these, a 40-story commercial tower, will become the city's tallest building. Also included will be a major hotel, two motels, and cultural and recreational facilities. The area will be laced with parks and open, landscaped plazas. Although Gruen will not ban...
Toward you. Low-cost, water-susceptible insulation might work at first. But, gradually there's a loss of insulation efficiency. Then cooling costs go up. And so do heating bills. Here's what happens. Vapor barriers are not 100% effective. They deteriorate. Movement of a building will split them, allowing moisture-laden air to penetrate the insulation. Moisture forms through condensation, reducing insulation efficiency. What to do?

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No one will know you installed bargain insulation.

(.until the owner cools off)
COMFORT FOR OCEAN VOYAGERS?

NEW YORK, N.Y. One of the first things John Lindsay did when he became mayor of New York was ask the Port Authority to make a study of improved passenger ship terminals in Manhattan's West Side. Late this April, the Port Authority presented its report, with recommendations for a three-pier complex capable of handling six passenger liners at one time.

New York has lagged sadly behind most European ports in providing comfortable, convenient facilities for ocean voyagers. Piers are neither heated nor air conditioned. Baggage facilities are antiquated, and often restrooms and snack facilities are not available. Lack of provision on the piers for taxis and busses means snarled traffic conditions on the West Side Highway. A 102-page report, prepared by the Port of New York Authority staff, outlines plans for contemporary terminal treatment, with added features.

The report was prepared by E.E. HALMOS, JR. Architect-Engineer fees, if it is approved, is expected to be about $76 million. It would take an estimated $10 million to keep it running with amortization costs.

But it is still only a small breather in a battle that could finally come out. And it's not nearly as bad as it might have been.

WASHINGTON/FINANCIAL NEWS

by E.E. HALMOS, JR.

GAO Report Backs Architects — That long and anxiously awaited report of the General Accounting Office on Architect-Engineer fees finally came out. And it's not nearly as bad as it might have been.

Plan for five-level Consolidated Passenger Ship Terminal provides for rail parking area, lounge areas for passengers and visitors, Customs examination area, passenger car pick-up and discharge area, and service area.

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GAO Report Backs Architects — That long and anxiously awaited report of the General Accounting Office on Architect-Engineer fees finally came out. And it's not nearly as bad as it might have been.

But it is still only a small breather in a battle that could
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.

More and more, you'll find beautifully styled, high-quality Eljer plumbingware in important buildings. Don't you think that's reason enough for you to specify Eljer?

For further information concerning Eljer plumbingware for residential and commercial use, call your Eljer representative, or write Wallace-Murray Corporation, Eljer Plumbingware Division, Dept. PA-7, P.O. Box 836, Pittsburgh, Pa. 15230.
A four-pipe system isn't always the answer.

There could have been a profitable pool or penthouse on this roof.

And a garage instead of a boiler in the basement.

If only someone had specified a General Electric Zonal System.

GE Zoneline units could heat and cool the outside rooms.

GE unitary units could heat and cool the inside, public rooms.

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Other advantages over four-pipe systems:

• Big first-cost savings.
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• Lower heating/cooling costs in unoccupied rooms.
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From motels to high-rise construction, a General Electric Zonal System can save you space and money.


GE Zoneline heating/cooling units: Room-by-room control. Choice of grilles. Fits over doors or under window seats. Through-the-wall or floor-mounted consoles.

GE Unitary systems—A full line from 2-20 tons, split, self-contained, with various heating means including GE famous Hi-Reliability Weathertron® heat pumps.

Air Conditioning Department, Appliance Park, Louisville, Kentucky

GENERAL ELECTRIC

On Readers' Service Card, Circle No. 444
June 1970

Proposals are within a competitive posture with Congress, since the costs such as travel, supervision and general, have allowed other agencies to use them. Thus, until the legislators clarify the matter, Federal agencies should be permitted to continue present practices (which, GAO found, usually result in A-E's fees in excess of 6%, since the agencies have interpreted the limitation to apply only to services concerned with producing plans and specifications, and, in general, have allowed other costs such as travel, supervision and the like as "extras").

GAO's lengthy report was obviously the opening round in the upcoming debate, and the opinions, it should be noted, carry much weight with the Congress, since the agency is a Congressional — not an Executive — arm.

For this reason, GAO comments on fees and negotiation are worth reading in detail: "The requirements of Public Law 87-633 are that, in all negotiated procurements in excess of $25,000, proposals be solicited from the maximum number of qualified sources... and that discussions be conducted with all responsible offerors whose proposals are within a competitive range, price and other factors considered. Most of the agencies... generally solicit a proposal only from the A-E firm selected on the basis of technical ability. In our opinion, this... does not comply with the statutory requirement.

"Agencies have advised us that they are opposed to the concept of soliciting multiple competitive proposals... Representatives of A-E professional societies have advised us of their belief that the legislative history... constitutes substantial ground for concluding that the competitive negotiation requirements... were not intended to apply to A-E services. "We find no present statutory basis that would exempt A-E contracts from these requirements.

"Recognizing... that the problem... is a complex one, we have advised the agencies that present procedures may be followed until Congress has had an opportunity to consider the matter."

As to fees, the fiscal watchdog agency stated: "The present statutory fee limitation is impractical and unsound, and we are recommending that the Congress repeal [it]." Elsewhere in the report, GAO cited the argument presented by the AIA and other groups: that basing the fee on ultimate construction costs often has little relation to actual amount of A-E work involved; that the 6% limitation may have been equitable in 1939 but is certainly not so at this time. "It is in the position of this office," concluded GAO, "that a consultant... should be based on the estimated value of the services to be rendered.

... The requirement for submission of... cost and pricing data by A-E firms implicitly calls for negotiation of fees in terms of this value... This same concept is the underlying principle of negotiated contracting and should be followed in the negotiation of all contracts for A-E services which are subject to the competitive negotiation requirements."

With the report in hand, professional societies consulted among themselves early in May to decide on a probably concerted course of action to take before Congress.

Sniping at the Capitol Architect — The ever current... and currently hotter... debate over what to do about the U.S. Capitol has now produced a string of bills aimed at clipping the reconstruction wings of Capitol Architect J. George Stewart. It also produced one relatively spirited defense. On the "clipping" side were a legitimate measure (S. 1595) providing that no work involving altering the proportions, changes in the size, or modifications to the Capitol without specific legislative authorization, and establishing a 17-member "Capitol Building Commission" to study present and future needs of the whole Capitol Hill area. Also, Congress (S. 1582) was the Federal Fine Arts and Architecture Act (a companion House bill is HR 8991), which is to "forst high standards of architectural excellence in the design of Federal buildings and post offices, "said Sen. Volden of Miss., "Federal buildings outside of the District of Columbia are unimaginative, mediocre structures which have been built to last... but not to add aesthetic beauty to their surroundings... Many Federal buildings throughout the United States stand as monuments to bad taste today.

A 12-member commission composed of "distinguished architects from private life" and others would advise the General Services Administration on art and architecture. Implied also was advice on the Capitol.

Leaping to the defense of the often-criticized Stewart was Rep. Arnold Olsen (D. Montana). He took the House floor to make a point-by-point refutation of criticisms in magazine articles and elsewhere of the architecture on "the hill." His main point: while the Capitol ought to "be a museum... of a library for people to browse in... or whether it is an active institution, a functioning place, and whether we should do something to make it a better functioning place."

Tidbits — Other Washington developments of concern to architects include these:

- Congress was having some serious second-thoughts about the hastily-passed, $350 million (it was thought) highway "beautification" legislation. Sober evaluation now placed costs of removing billboards alone at more than $1 billion; many states were saying they'd rather take the penalty (loss of 10% of Federal-aid money) than get involved in such an expensive program. Chances were good that the legislation would be rewritten.

- Internal Revenue Service director Bob Perdue, who expected blow to professional societies that publish advertising-carrying journals. Said IRS: Such journals must pay taxes on advertising revenues no matter how revenues may be siphoned off into other society activities.

- The annual meeting of the National Academy of Sciences got a series of gentle rebukes because it wasn't backing enough urban rehabilitation work, wasn't bringing urban residents into planning.

- Federal Aviation Agency issued a new five-year National Airport Plan, calling for 729 new facilities, to cost $1,500,000,000.

- The Consulting Engineers Council — in testimony on the Intergovernmental Cooperation Act — called for establishment of "talent banks" of experts from the professions, to be tapped for solutions of these urban problems.

- Republican-sponsored National Home Ownership Foundation Act (HR 8820 and S.1592) was getting serious attention in Congress — so serious that the Johnson Administration felt it necessary to open an attack on the proposal. Key idea: self-help, private corporations to help low-income families own their own homes.

Financial — Construction costs have started to inch upward again, after a brief, and apparently not significant, spell of slowdown. In the last quarter of 1966, the Bureau of Public Roads cost index rose 0.4%, to reach 113.2 (1957-59 is base period). That was only 2.4% below the all-time high, in the third quarter of 1966.

Construction activity slowed in March, too, according to the Census Bureau. With an estimated $5,700,000,000 of construction put in place in March, the figure was 8% below a year ago.

Big factor in the slowdown as usual, was housing, which showed an adjusted annual rate of 1,200,000 units in March — up from February's 1,150,000, but down from last year's 1,570,000.

Nevertheless, taxpayers were still supporting public construction work with enthusiasm. In March, the Investment Bankers Association found 80% of new bond issues turned down only $171 million worth.
The ceiling for conditions that usually wreck ceilings

Meet the tough one. The ceiling that does a bang-up job under conditions that put conventional acoustical materials right out of business.

Much of the story comes from Ceramaguard’s ability to shrug off the effects of moisture. Even saturated, this fabricated ceramic acoustical material retains all its rigidity and span strength. Consequently, it can be installed when buildings haven’t been closed in and where wet work still continues. Ceramaguard also shrugs off freeze-thaw cycles, so it does a fine job on outside applications.

Even the chlorine-heavy atmosphere of an enclosed swimming pool doesn’t present a problem. Neither does repeated scrubbing.

But the tough one offers a good deal more than durability. It provides excellent acoustical control and high light reflectance, plus rated fire retardancy.

Briefly, when the job calls for something special, a Ceramaguard ceiling delivers. For more information, write Armstrong, 4206 Watson Street, Lancaster, Pennsylvania 17604. Or on Readers’ Service Card circle No. 300.

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On Readers’ Service Card, Circle No. 339

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On Readers’ Service Card, Circle No. 437
The key to advance in the industrialization of space framing lies in the development of a standard connector. Over the past 10 or 15 years, Canada's Triodetic Structures Ltd. has standardized a number of connectors that adapt their frames to a host of structural geometric shapes (see photo). This hub and tube system is now available to the U.S. designer through Butler Manufacturing Company, recently granted the franchise in this country.

The system, which will be manufactured in both steel and aluminum, comprises the hubs and structural tubes. The serrated ends of the tubular members are matched to grooved keyways running the full length of the hub. Tube diameters may vary but wall thicknesses should remain constant.

Structural members are quickly tapped into the connector with conventional tools (see photo), and may be inserted at varying angles to create a three-dimensional lattice work.

Unused keyways, or those only partially filled by a small-diameter structural tube, are closed by special inserts; hub ends are capped by washers and a single high-strength bolt. Welding is eliminated and bolting kept to a minimum.

Components, shipped to the job site in coded bundles, are marked for their place in the structure. Sections may be assembled on the ground and crane-lifted into place, or workmen may build onto the frame in place. Flexible ducting and wiring is run through and fastened to the structural web.

Space framers are getting a big boost at Expo 67 where three-dimensional framing is being used for a number of structures—the most impressive being the U.S. Pavilion designed by this country’s grandaddy of the space frame, Buckminster Fuller. Triodetic structures at Expo include the main entrance to the fair and the Netherlands Pavilion.

Butler is offering initially several packaged domes and three standard connectors, with plans for possible future expansion. However, the simplicity of the system will make it economically feasible to fabricate special hubs for large projects where necessary. The company’s engineers will work with designers in preparing computer programs for structural analyses. Butler Manufacturing Co., 7400 E. 13 St., Kansas City, Mo. 64126.

Circle 100, Readers’ Service Card

MOLDED BATHROOMS

Long the talk of architects, industrial designers, and the building industry in general, the molded plastic bathroom is now in the realm of mass-produced reality. The fiber-glass-reinforced unit, manufactured by the Canadian firm that supplied the molds for Habitat’s bathrooms at Expo 67 (see p. 226, October 1966 P/A), can be purchased for about $475 f.o.b. the factory in Toronto.

It is a pleasant white room with molded bathtub, lavatory, medicine cabinet, toilet, floor, walls, and ceiling. The floor plan is 5’-6” square, inside dimensions, with a 7’ ceiling. Surfaces are impact- and mar-resistant, and colors will be available. The manufacturer is now at work developing several variations on the basic unit shown here. They include a toilet/washbasin combination equipped with a floor drain so that it can be used as a shower, and a shower/toilet/washbasin unit.

“Batthanit 300” is pre-plumbed, pre-wired, and pre-fabricated in four stackable sections. When stacked, it measures 6’-6” x 6’ x 3’, and weighs 350 lb. Sections are sealed with a silicone calking compound (or equal), and two men can install the unit in 1½ hrs., reports manufacturer, Relf Plastics Ltd., 91 Milvan Dr., Weston (Toronto), Canada.

Circle 102, Readers’ Service Card

CONSTRUCTION

The big roof. “Zip-Rib” roofing panels are 12” wide and available in “any ridge-to-eave length.” Lightweight aluminum panels are installed without end or side laps, and without making holes in the surface. High-standing seams are “zipped” together with an electric hand tool that seals anchor clips (fastening panels to purlins) in the seams and also locks adjacent panels together. There are no through or exposed fasteners, and the resultant one-piece roof is capable of providing long unsupported spans. Installation is fast, durable, watertight. System includes all necessary accessory hardware, Kaiser Aluminum & Chemical Sales, Inc., 300 Lakeside Dr., Oakland, Calif. 94604.

Circle 104, Readers’ Service Card

Electro-lamination makes wood stronger than steel. Over specific spans, electro-laminated beams of redwood,
Douglas fir, and Southern pine, are stronger, pound for pound, than similar beams of steel, claims manufacturer, who also states that the beams will neither oxidize nor buckle and twist when heat is applied. "Electro-Lam" beams are available in lengths up to 48' in various cross sections. Potlatch Forests, Inc., Wood Products Div., 320 Market St., San Francisco, California 94111.

Circle 106, Readers' Service Card

Patterns in glass. Raised surface patterns with a fired-on black ceramic create a new look in clear glass blockbreaking up the traditional square grid, especially when laid with black mortar, which blends with black ceramic parts of the block. Designed by Peter Muller-Munk Associates (Donald H. Behnk, chief designer on the project), the two basic blocks—one with a raised semi-circle, the other with a raised, sharply angled crescent—can be combined in many different ways for either interior partitions or exterior walls. The two "Cameo" designs are available in 8"x8"x4 1/2" hollow blocks that offer good temperature and sound insulation. Top photo shows two possible combinations, and indicates light transmittance and slight distortions caused by the blocks; below are individual blocks. Pittsburgh Corning Corp., One Gateway Center, Pittsburgh, Pa. 15222.

Circle 109, Readers' Service Card

Metal/paper flashing. A thin copper membrane (1, 2, or 3 oz), asphalt-bonded to creped kraft, makes a tough, highly flexible and economical flashing material. "Copper Ar- mored Sisalkraft" is suitable for concealed flashing of spanning beams, parapet walls, door and window heads. Samples available. Sisalkraft, 75 Starkey Ave., Attleboro, Mass. 02303.

Circle 107, Readers' Service Card

Cover moves with floor. Expansion joint cover provides adjustment for movement of the joint up to 1" horizontally and 45° vertically. Roller nut and spring clip secure the cover plate, but allow it to pivot with up and down movement. Gasketing filler strips are keylocked under compression so as not to pop out. Available in aluminum or bronze with several surface finishes. Construction Specialties, Inc., Center Street, Williamsport, Pa. 17701.

Circle 108, Readers' Service Card

Tongue-and-groove. Decking of 2 x 6 lumber is assembled into 21" wide panels that can be cut to specifications in increments of 1/8", up to 24' long. The joints between individual planks are accent by V-grooves on the exposed face; panels are held together by heavy kraft paper glued to the reverse side. "Bond-Deck" is available in several grades of white fir, including Premium and Industrial; smooth or sawn face; suitable for roofing or subflooring; redwood and cedar also available. Tarter, Webster & Johnson Div., American Forest Products Corp., P.O. Box 3498, San Francisco, Calif. 94119.

Circle 109, Readers' Service Card

DOORS/WINDOWS

PVC and steel. Windows with a steel core for strength are completely encased by semi-rigid polyvinyl chloride extruded shapes for protection against weather, air pollutants, etc. "Compro PVC Windows" have been tested from -40°F to 230°F. Fire resistance is rated as "self-extinguishing." Available in 8 standard colors, including blue, red, and a bright yellow. Compro Corp., 10 Dunnell Lane, Pawtucket, R.I.

Circle 110, Readers' Service Card

Floor-door problems? Adjustable door-frame anchor compensates for uneven floors with a two-piece channel and angle unit that adjusts in 1/8" increments within a 2" range, thus eliminating the need for shims. Designed for the installation of steel door frames, the anchor can be fastened to any type of subfloor or finished floor, says manufactur- er. The Ceco Corp., 5601 W. 26 St., Chicago, Ill. 60650.

Circle 109, Readers' Service Card

Walking Happy. Woven glass fiber, covered by a layer of inhild vinyl and backed with air-tight vinyl foam, com- prises Walk-Ease flooring. The resiliency of the glass fiber causes the floor to spring back even after indentation by stiletto heels and heavy furniture. The thick foam (¼") insulates the floor and makes for comfortable walking. Flooring requires no waxing unless higher gloss than its natural satin finish is desired. Two patterns are available: "En- canto," marbleized vinyl chips suspended in clear vinyl, and "Facile," small vinyl stones sealed in clear vinyl.
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It's the combination of built-in values that makes Homasote Underlayments the practical specification for so many floor systems. Weatherproof insulation, for constant protection against the penetration of cold and dampness, is one value. Sound-deadening characteristics and cushioned resiliency for walking comfort (even over above-grade concrete) are others. They're also resistant to termites, rot, and fungi. And exceptionally easy to apply—with precision fit—using either adhesive or nails. (Carpeting and pad, or parquet flooring, may be applied directly to the underlayment by conventional methods.)


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On Readers' Service Card, Circle No. 363
The Flintkote Co., 201 E. 42 St., New York, N.Y. 10017.
Circle 114, Readers' Service Card

FURNISHINGS

A first for Girard. Furniture custom-designed by Alexander Girard for Braniff International's splashy spruce-up campaign is now being manufactured on a production basis — Girard's first furniture available to the general public. Chairs and sofas are of double-shell construction — two molded plywood shells with a separating vinyl welt. Inner and outer shells, as well as seat cushions, can be covered with a variety of matching or contrasting fabrics or naugahydes. The vinyl welt is available in three colors. Furniture is deep-seated and low-backed, supported on cast chrome steel and polished aluminum legs. The group of some 25 chairs, sofas, ottomans, and tables offers a wide choice of fabrics, leg heights, tabletop materials, and sizes. Suitable for residential as well as public areas. Herman Miller Inc., Zeeland, Mich.

Circle 115, Readers' Service Card

Light up the scene. Around the hip pad, you might hang in with one of four white satin glass cylinders embellished by fired-on black, eye-boggling designs. Not shown: black sphere with white polka dots. Koch & Lowy, Inc., 940 Third Ave., New York, N.Y. 10022.
Circle 117, Readers' Service Card

Colorful fabrics from England. Four fabrics from Arthur H. Lee & Sons are the beginning of a new line of contract fabrics woven in England for architectural use. The four include "Rib Cloth," which alternates narrow and wide horizontal ribs and is suitable for upholstery, bedspreads, or draperies. It is 100% mercerized cotton and comes in 15 colors. Also featured is "Basket Weave" of
traditional hardware would be out of place. Sets include one faucet with a choice of two kinds of angular handles: a knob ("Tangents") or a lever ("Dimensions"). In brushed chrome, pewter finish or 24-carat goldplate, sets are intended to resemble Brancusi sculptured forms. Sherle Wagner, Inc., 125 E. 57 St., New York, N.Y. 10022.
nonwalking surfaces. Available in thicknesses of \( \frac{1}{4} \)" or \( \frac{3}{8} \)" in three finishes: low light reflectance, medium gloss, and a grained texture. "Wall 'n Corner" panel system features decorative or concealed spline treatment for joints and preassembled one-piece outside corner units. Consoweld Corp., 700 Hooker St., Wisconsin Rapids, Wis. 54494.

Circle 121, Readers Service Card

**LIGHTING**

The ceiling grid. Drop-in panels for luminous ceilings eliminate hot spots caused by show-through of fluorescent tubes, and lend a more substantial and less regimented look to the T-bar grid. A plastic frame or collar on each panel creates the three-dimensional appearance. Panels require no clips, since they are raised above the grid and lowered into position. Sonolutx Co., 1250 17th St., San Francisco, Calif. Circle 122, Readers Service Card

**SERVICES**

Mosaic craftsmen. Artists and artisans design and construct Byzantine mosaics from special mosaic glasses fired in the company's workshop in Stockton, Calif. Byzantine Mosaics, 1150 Sansome St., San Francisco, Calif. 94111. Circle 123, Readers Service Card

Los Angeles and San Francisco works with outside artists and designers, or assumes complete responsibility from design to completion. Shown above is mosaic on library in Stockton, Calif. Byzantine Mosaics, 1150 Sansome St., San Francisco, Calif. 94111. Circle 123, Readers Service Card

One-Piece Bathrooms? "Archon," a mixture of fiber glass, plastic resins, and mineral fillers, permits designers of bathrooms to have all components (including floors and tub wall) of one material, and even two components in one (viz., floor and toilet base). Cast as units, Archon components eliminate joints and crevices; sinks with vanity tops are one-piece with no seams around the basin. Standard Archon colors range from five pastel shades to five marble grains, with three accent tones. Many fixture styles are available, including oval, round, or shell vanity basins, and oval and Roman bath tubs. Associated Design Group, P.O. Box 8106, 1460 Foothill Drive, Salt Lake City, Utah 84108. Circle 126, Readers Service Card

**SURFACING**

Carpet for Sun and Shade. An addition to the indoor-outdoor carpeting family is Orcco's line of 100% Herculan polypropylene olefin carpet. Smooth or embossed "Sun & Shade" can be cleaned either by vacuum or hose, and is said to resist fading, stains, rot, mildew, fungi, and moth damage. Sun & Shade requires no cementing or attaching, although double-face tape is recommended for outdoor installations. Embossed patterns, in 12 colors, are "CarvTone," a random stone design (pictured), and "La Costa," an ornamental Spanish tile. Carpet comes in 9' and 12' widths in addition to rug sizes. Orcco Industries, Inc., Sun & Shade Div., 4903 Everett Ave., Los Angeles, Calif. 90058. Circle 127, Readers Service Card

Single needle carpets. A tufting loom that utilizes a single electronically controlled needle makes random-textured loop carpeting that could previously be made only by hand. Loops are backed with sateen jute sealed with latex. Included in attractive booklet are details on carpeting fibers (Far Eastern wool exclusively), sizes (widths from 12' to 15'-6" in 6" gradations), colors (choice of thousands, all skinned to avoid inconsistencies of piece-dying), and styles (more than 850 different qualities varying in height of pile, compactness, and yarn weights). Delivery and maintenance information and 8" x 5" sample. Sallee Carpet Looms, Inc., 2515 Main St., Santa Monica, Calif. Circle 128, Readers Service Card

June 1967
Stop gambling on the roof

Pittsburgh Corning, the insulation people, make the only insulation guaranteed to keep its insulating value for 20 years—waterproof FOAMGLAS®

Although unseen, insulation is the most important element in a waterproof roof. To provide a solid base for built-up roofing, it must have high compressive strength. To prevent wrinkles and splits, it must be dimensionally stable. Otherwise, your client can face expensive re-roofing a few scant years after the original job.

You can protect your client by specifying FOAMGLAS®-BOARD, the cellular glass insulation. It's strong, stable and waterproof because it's formed of millions of completely closed glass cells. In fact, only FOAMGLAS insulation carries a 20-year guarantee that it will not absorb moisture but will retain full insulating value, compressive strength and incombustibility.

Get the details on FOAMGLAS-BOARD. Write Pittsburgh Corning Corporation, Dept. PP-67, One Gateway Center, Pittsburgh, Pennsylvania 15222. In Western Europe, FOAMGLAS® cellular glass insulation is manufactured and sold by Pittsburgh Corning de Belgique, S.A., Brussels.
**MFRS' DATA**

**AIR/TEMPERATURE**

On air. Brief descriptions of manufacturer's rooftop make-up air equipment, central station multisize units, heaters, and air-conditioning units for industrial applications are contained in bulletin with photos. 4 pages. Mammoth Industries, Inc., 13120-B County Rd. 6, Minneapolis, Minn. 55427. Circle 200, Readers' Service Card

Heat from lights. Systems for extracting heat from lighting fixtures, to be used or exhausted depending on the weather, are covered in a general discussion of what the systems are, what they do, the economic advantages, and the combining of heating, lighting, air conditioning, and ventilating into one integrated system. Diagrams, text, and a description of manufacturer's two air-handling/heating/cooling units for industrial applications are included, plus a twopage bibliography of pertinent literature. 16 pages. Sylvania Electric Products Inc., 60 Boston St., Salem, Mass. 01970. Circle 201, Readers' Service Card

The fair draft. Products for controlling drafts in floors, heaters, furnaces, rooftop units, flues, and chimneys for residential and industrial application are cataloged and rated in capacity and performance charts in a folder including diagrams and photos. 4 pages. Walker Mfg. and Sales Corp., St. Joseph, Mo. 64502. Circle 202, Readers' Service Card

**CONSTRUCTION**

"Circular Steel Framing for Highrise Buildings" provides both general and specific information on circular and polygonal buildings. Framing and bracing schemes are discussed, and design procedure outlined. A detailed wind analysis covers axial forces in columns, girder shears and moments, deflection, transition stories, and buildings with multiple rings of columns, among others. Part II is an 11-page design example setting forth the calculations and formulae used in designing a 25-story octagonal apartment building. Discussion of model tests, tables, bibliography, etc. 34 pages. United States Steel Corp., Rm. 4457, 525 William Penn Place, Pittsburgh, Pa. 15230.

Aggregate "glue." Epoxy-based matrix will bond lightweight exposed aggregate to concrete, concrete block, plywood, and wallboard. "Tuff-Lite" is troweled on and then seeded with aggregate. Description of properties, brief specs, construction details, photos of installations. 4 pages. H.B. Fuller Co., 1150 Eustis St., St. Paul, Minn. 55108. Circle 203, Readers' Service Card

Glass block mortar. Tips and recommendations for mortar ingredients used in laying glass block are set out in data sheet. 2 pages. Glass Block Institute, One Gateway Center, Pittsburgh, Pa. 15222. Circle 204, Readers' Service Card

Stone. Limestone quarried in Wisconsin is available in various face textures and colors. Stone is sawed or hand hewn in bed, seam, split, and rock faces. Brochure describes different types of stone, physical properties, sizes. Color photos. 6 pages. Halquist Stone Co., Sussex, Wis. 53089. Circle 205, Readers' Service Card

**DOORS/WINDOWS**

On the ceiling. A wide variety of ceiling tiles, accessories, and lighting fixtures for acoustical, suspension, and ventilating ceilings are extensively cataloged in booklet that gives physical properties, sizes, colors, acoustic and fire ratings, light reflectance, and other technical data, photos, patterns, drawings, levers, lenses, metal grids, plastic panels, etc. 56 pages. Wood Conversion Co., Conwed Products, 332 Minnesota St., St. Paul, Minn. 55101. Circle 206, Readers' Service Card

The light aggregate. Expanded perlite for use as an aggregate in insulating concrete and plaster, and as a water-resistant, insulating fill for masonry walls is described in pamphlet with charts and tables giving physical properties, insulation values, and specifications data. 8 pages. Grefco, Inc., 630 Shatto Place, Los Angeles, Calif. Circle 207, Readers' Service Card

Lock and key history. An interesting and well-designed booklet tells the story of the key as a symbol of power and traces the development of mechanical locks from 2000 B.C. through the Chinese, Egyptians, and Romans to the invention of the pin-tumbler cylinder lock by Linus Yale, Jr. Examples from the past and present include designs by Fernand Léger and Isamu Noguchi. A catalog of the extensive Yale Lock Collection concludes the booklet. Illustration above is an 18th-Century chest lock; face plate at top, and lock mechanism below. 35 pages. Yale Lock and Hardware Div., Eaton Yale & Towne Inc., 401 Theodore Frend Ave., Rye, N. Y. 10580. Circle 208, Readers' Service Card

**FURNISHINGS**

Lifetime kitchens. Designed for efficiency apartments or institutional lounge areas, Dwyer kitchens use a strong porcelain enamel finish that is "burned into steel." The porcelain units range in size and completeness for different uses: One model is the "Hospitality Center" (shown), disguised as a soda fountain or bar on one side and concealing a sink, refrigerator with freezer, and oven or cabinet. Booklet shows sketches and photos of all models and details features and optional modifications. Specifications and dimensions. 19 pages. Dwyer Products Corp., Michigan City, Ind. Circle 209, Readers' Service Card

Woodworkings. Doors of many kinds (panel, sash, dutch, flush, folding cafe) and other wood products (stairways, entrances, china cabinets, mantels, gable units, shutters) are only part of the Morgan line. In addition, they offer an unlimited variety of stairways based on combinations of component parts. Included are designs for both...
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June 1967

P/A News Report
In suspension. A series of upholstered armchairs designed by Danish architect Kay Korbing have "floating" backs that are attached to the backs of the arms by two metal flakes. For use in offices, the chairs come in a number of widths, depths, and seat, arm, and back heights. Satin finished bases are aluminum for the swivel and/or tilt models and steel for stationary, four-legged models. Folder shows variations in style and size. Black and white photos. Specifications. JG Furniture Co., 160 E. 56th St., New York, N.Y. 10022.

Colors on the floor. "Select-O-Scope" device assists designers in arriving at a desired color pattern for the three-step elastomeric liquid resilient flooring — Poraflor. The flooring consists of a solid base coat over which color flakes are sprinkled. When this flecked base has dried, clear protective topcoats are applied. The kit consists of 17 base coat colors and 21 clear sheets containing flake designs in addition to 12 standard color combinations. Condensed architectural specifications. Poraflor, Inc., 25-29 50th St., Woodside, N.Y. 11377. Circle 211, Readers’ Service Card

A burning issue. Condon-King’s catalogue shows three free-standing fireplaces. Pictured in room settings are both wood-burning and gas-fired models in a choice of bright porcelain, matte, and ceramic colors. The new “Aztec,” shaped like a squatting Mexican totem, contrasts its ceramic fire-chamber with black spun-steel base and vertical flue. Both the familiar conical “Firehood” and the rectangular “Manchester-Pierce” can be vented through a roof or attached into a masonry chimney. Full-color. 4 pages. Condon-King Co., Inc., Lynwood, Wash. 98036. Circle 212, Readers’ Service Card

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six convenient checklist postcards that may be sent away to obtain more details. “Showcase '67” has three groupings of office interiors: Office Furniture, Office Seating, and Walls and Accessories. Each company includes photos and brief descriptions of a specific line or model. Some of the firms represented are General Fireproofing Co., Knoll Associates, Inc., Myrtle Desk Co., and Royalmetal Corp. Black and white photos. Cost: $2.50. National Stationery and Office Equipment Association, 1143 Merchandise Mart, Chicago, Ill. 60654.

On the table. An attractive catalogue shows nine variations of CHF conference tables. Tops come in many shapes (rectangle, boat, round, oval, taper, hexagonal, octagonal); pedestal styles (single or twin) can be finished in solid cast bronze, cast aluminum, bright or satin aluminum, chrome, or porcelain. Top materials are plastic laminates, wood veneers, and a variety of table edges including a new extra-hard “Rock” edge. Specifications. Black-and-white photos. Chicago Hardware Foundry Co., North Chicago, Ill. Circle 213, Readers’ Service Card

Foldaways. The Murphy Bed Company offers the Murphy Sidebed, which can be folded out of sight by tipping it onto its side against or into the wall. Ideal for space-saving, sidebeds (single or three-quarter size) can be camouflaged as room dividers, wall cabinets, and built-in bookcases. Brochure also illustrates ideas for concealing the standard Murphy Beds (both single and double) that fold heel over head into their compartments. 8 pages. Drawings. Specifications. Murphy Door Bed Co., Inc., 3 E. 44 St., New York, N.Y. 10017. Circle 215, Readers’ Service Card

Supplementary furniture. Leigh’s supplement to their 1965 office furniture cata-
entails the use of special equipment with carefully designed ventilation. Catalog gives product specifications and sized drawings for manufacturer's special washer-extractors with front-and-rear access, safety-lock doors. A second booklet outlines design procedures for hospital laundries and lays out floor plans for laundries of various capacities. Pellerin Milnor Corp., P.O. Box 19264, New Orleans, La. 70119.

Sanitation Plumbing

The most popular room in the house. A synopsis of Alexander Kira's research study "The Bathroom" (p. 63, June 1966 P/A) is available from the manufacturer of adjustable hand-held shower sprays. Bathtub, shower, wash basin, and toilet are briefly discussed in terms of present inadequate designs and recommendations for improving them. 8 pages. Alsons Products Corp., 15280 E. Chicago Rd., Somerset, Mich. 49281.

SPECIAL EQUIPMENT

Isolating hospital laundry functions. Protecting patients against infection by staphylococcus bacteria depends to a large extent on the complete separation of clean and soiled laundry rooms. This entails the use of special equipment with carefully designed ventilation. Catalog gives product specifications and sized drawings for manufacturer's special washer-extractors with front-and-rear access, safety-lock doors. A second booklet outlines design procedures for hospital laundries and lays out floor plans for laundries of various capacities. Pellerin Milnor Corp., P.O. Box 19264, New Orleans, La. 70119.

Surfacing

Tile catalog. Full-color booklet gives sizes and color samples for solid or speckled tiles with bright or matte glazes for wall, countertop, floor, special purpose, and trim tiles. Featured are "Master-Set" sheets of tiles prejoined with a special bonding material. Sheets can be applied using adhesives, dry-set mortars, or conventional portland cement and sand setting bed. Tile bathroom accessories also included. 32 pages. American Clean Tile Co., 1000 Cannon Ave., Lansdale, Pa.

American Walnut Manufacturers' Assn., 666 Lake Shore Dr., Chicago 11, Ill.

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On Readers' Service Card, Circle No. 466
EXPERIMENTS IN ENVIRONMENT. Last summer, landscape architect Lawrence Halprin, his dancer wife Ann, and several others in the fields of ecology, architecture, cinematography, and lighting, took a dozen young designers and a group of dancers through a month-long series of intense experiences designed to explode all their senses and to cause deepened sensory perception for an increasingly aware approach to design and planning. The workshop, which might well be a guide for more traditional-minded schools and professionals, is recreated as closely as possible in text and photographs. One of the participants told P/A at his reaction a year later: "I will never again have any trouble finding approaches to a design, and I am sure that I'll never have a dull moment in my life because I am left so hungry to explore so many things." A significant report on a significant design happening.

A COLONIAL TOWN ADDS MODERN ARCHITECTURE. One of the most "New England" of New England towns is Litchfield, Connecticut. To this traditional community have come the contemporary contributions of architects such as Neutra, Breuer, Johansen, Barnes, and Noyes. The manner in which their designs fit sympathetically into the older fabric of the town is examined, and a new library by Noyes is given special attention.

HOUSES BY A YOUNG ARCHITECT. Houses are traditionally the first design problem of the beginning architect. Peter Glueck, a 1965 Yale graduate, is no exception to this rule, but the four houses we will present in July show him to be a young designer of unusual perception and maturity.

ALSO ... a warm Bay-Area-Style apartment house by Jonathan Bulkeley; a correspondence with an Indian reader about some shaking minarets in his country that still has the editors wondering; and technical articles on kinetic structures, the tallest slip-formed building yet, and spinning expanded polystyrene into structural shapes.

AND ... commentary in the P/A OBSERVER, all the latest in P/A NEWS REPORT, and a lot of clip-and-file material from P/A's contributing columnists.

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