

NEWS REPORT

Architecture's Monthly News Digest of Buildings and Projects, Personalities, New Products

Air Academy Building Expansion Takes Off

DENVER, COLO. Within the next few years, the U.S. Air Force Academy will more than double in size. At work on plans for the \$40,000,000 expansion program are two Omaha, Neb., architectural firms: Henningson, Durham & Richardson, and Leo A. Daly Co. They plan to expand almost all the academy's facilities. Involved are a new dormitory, physical education and base

chapel buildings, additions to the academic, dining hall, and social center buildings, new parking lots, cadet formation areas, and athletic fields. Construction on the dormitory got under way last month. All work is to be programmed so that construction will never interfere with the cadet's routine. When completed, the academy will accommodate 4250 cadets, instead of the present 2500.

Breuer Designs For Yale



NEW HAVEN, CONN. The next addition to the architectural museum that is the Yale University campus will be a six-story Engineering and Applied Science Laboratory, designed by Marcel Breuer. The late Yale president A. Whitney Griswold originated the architectural policy of having leading architects design buildings for Yale, and current president Kingman Brewster, Jr., is continuing it. The Laboratory is the first major building commissioned at Yale since Brewster took over two years ago.

Breuer's plan will fit the campus no better—but probably no worse—than the other contemporary structures com-

pleted here in the last two decades fit into Yale's traditionally eclectic demeanor.

To make way for the new Laboratory, two engineering buildings on Prospect Street will be razed—the 73-year-old Winchester Hall, and the 92-year-old North Sheffield Hall. According to preliminary plans, the Laboratory will have a façade of precast concrete panels, with color, texture, and surface modulations sympathetic to the masonry of neighboring Sterling Tower and Sheffield - Strathcona Halls. Window openings will be subdivided by vertical mullions, which will provide partial sunshieling. The first-floor façade

will be recessed behind the supporting pilotis. In front will be a walled terrace that Breuer sees both as a unifying element tying together the Laboratory and surrounding buildings of different styles and as a roof for an underground auditorium, lecture room, and faculty lounge.

Plans for raising the \$9,000,000 needed to complete the project are under consideration. An additional \$3,000,000 will be raised for the renovations of adjacent Dunham Laboratory of Electrical Engineering and Mason Laboratory of Mechanical Engineering. This renovation is being planned by Douglas Orr, de-Cosy, Winder & Associates of New Haven.

\$32,000,000 for Cleaner Air

WASHINGTON, D.C. The Amended Clean Air Act, signed into law in late October by President Johnson, authorizes appropriations of more than \$32,000,000 to the Department of the Interior. With it, the Department will initiate programs to improve disposal of solid wastes generated by "mining, processing, and using minerals." At the same time, the bill will help cut down the absurd blight of roadside and urban scrapheaps by finding ways of getting rid of them economically. According to Assistant Secretary of the Interior J. Cordell Moore, "The Amended Clean Air Act will enable us to move faster toward accumulating this essential information, not only on the auto graveyard problem but also on other forms of scrap metal waste. For example, it is estimated that we're losing nearly 5,000,000 tons every year, just in discarded 'tin' cans." One hopes that the \$32,000,000 won't be lost in discarded or disregarded studies and committee reports, or frittered away in massive labyrinthine digressions.

AND THEN THE LIGHTS WENT OUT

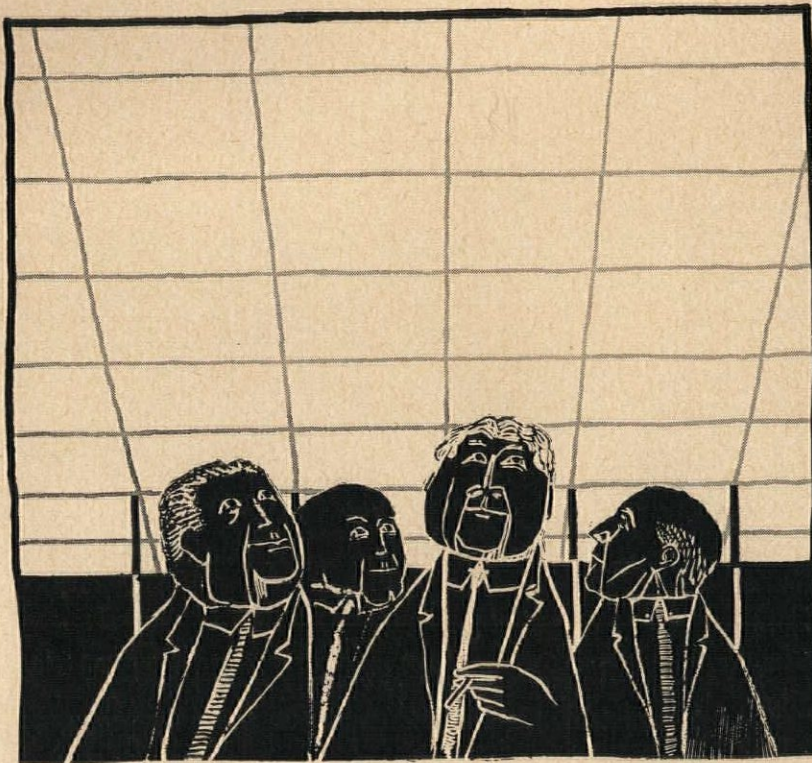
NEW YORK, N. Y. Shortly after sundown on November 9, when a massive power failure darkened the Northeast, it brought to mind what E.B. White wrote 16 years ago in his essay *Here Is New York*: "By rights New York should have destroyed itself long ago, from panic or fire or rioting or failure of some vital supply line in its circulatory system or some deep labyrinthine short circuit. . . ."

"Mass hysteria is a terrible force, yet New Yorkers seem always to escape it by some tiny margin: they sit in stalled subways without claustrophobia . . . they meet confusion and congestion with patience and grit—a sort of perpetual muddling through."

This time, some 800,000 persons, about as many as live in the city of Milwaukee, were trapped in subways. But all made their way out. And New York did not destroy itself.

Although prophetess Jean Dixon (who claims she predicted President Kennedy's assassination, but came a cropper when Pope Paul did not come to grief on October 4 as she foretold) had predicted the blackout as early as last July, the sudden failure of artificial light surprised most of 30,000,000 persons in eight northeastern states and not surprisingly gave them an unexpectedly fresh view of Megalopolis' cityscape.

Over Manhattan, where the glow of the nighttime sky can ordinarily be seen for scores of miles, the only glow came from the full moon. Instead of brightly lit buildings being outlined against a dark sky, the dark bulks of the buildings were etched against a moonlit sky. But although its demeanor changed, the city did not become more humane. The slanting rays of the moon highlighted eerily the refuse in the gutters. The overwhelming girth of the Pan Am Building,



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deprived of whatever warmth and humanity its thousands of brightly lit windows lend it, loomed sullenly above the darkened streets, like a giant monolith from some dead civilization. Times Square, suddenly devoid of its particular humanity, stood empty except for an ABC television truck with a spotlight, which searched for pictures like some predatory eye. Most avenues and cross streets were solidly packed with slowly moving traffic whose headlights provided the only light for the milling hordes on the sidewalks. "It's the first time cars have ever seemed useful in New York," said one pedestrian. At the Armory at 33rd Street and Park Avenue, the headlights of two jeeps lit the interior parade floor, shedding light for the group of persons who found shelter there because they couldn't make their way home. They seemed to find consolation in the two pairs of unblinking lights in spite of the exhaust fumes. What will Manhattanites do in an emergency, real or feigned, when these armories are removed?

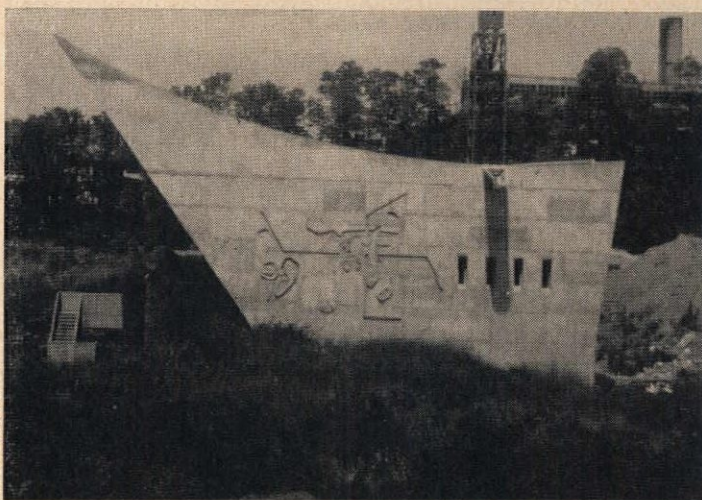
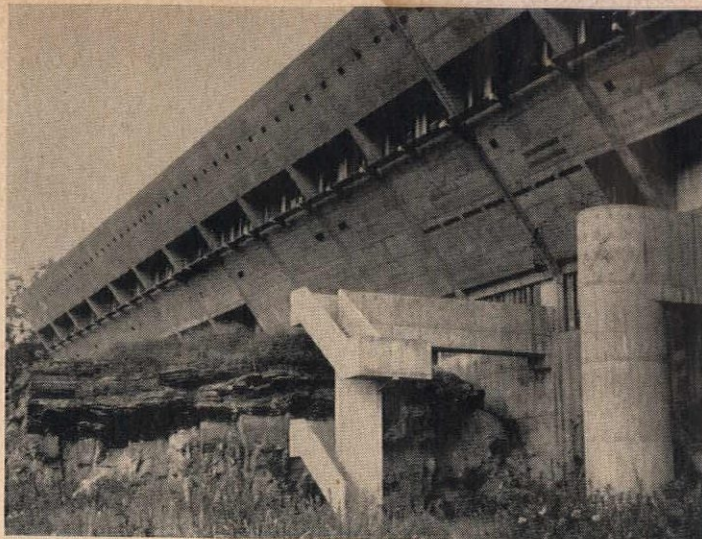
Candlelight lit myriad bars and restaurants in the New York metropolitan area: Deprived of their flashing neon lights, they seemed particularly appealing, and were generously populated. Is this the way to bring humanity back to cities—candles instead of electric light, horses instead of cars, rocks instead of washing machines?

Another solution might be to do what they did in Boston. Thousands of off-duty policemen attending a policeman's ball were summoned back to duty. They directed traffic at darkened intersections, with badges pinned to their tuxedos—urban beautification to vie with Mrs. Johnson's geraniums.

Forty-eight hours after the blackout lifted, *Sherlock Holmes and the Deadly Pearl* was shown on local New York television. In a stunningly apopos passage, Nigel Bruce as Dr. Watson asked Basil Rathbone as Holmes, after electronic warnings had signaled a theft in the British Museum: "What on earth was that, Holmes?"

"Electricity, my dear Watson," the detective replied cuttingly, "the high priest of false security."

A Late Corbusier Work Takes Shape



Photos: Roy Harlow

When we published the model and plans for Le Corbusier's church at Firminy, France (pp. 206-209, FEBRUARY 1965 P/A), we indicated that the late master was creating other works for that provincial city.

On a recent visit there, New York architect R. P. Harlow took the photographs shown here of Corbu's "House of Youth and Culture," now nearing completion. The building will be joined by a stadium.

Gateway Arch Topped Out

ST. LOUIS, MO. St. Louis was once the Gateway to the West. Fremont outfitted here. So did Bowie, Jim Bridger, Davie Crockett, and Kit Carson. In those days, St. Louis was a gateway; today, it no longer is. It does, however, have a gateway arch reminding everyone of its past.

The Saarinen-designed, 630'-high Gateway Arch was completed here on October 28. On hand to see the keystone section hoisted into place was 77-year-old Barney Dickman, who thought up the idea for the arch when he was mayor of St. Louis in 1933. "This is the greatest memorial since the Eiffel Tower," he said. "I'm glad the darned thing's fin-



ished." So was everyone else. Designed 17 years ago by the late Eero Saarinen, the arch has been under construction since the spring of 1962.

Paganry was in evidence at the topping-out ceremony. An Air Force band played the national anthem, and fire hoses

played cooling water on the completed steel sections of the arch to keep them from expanding in the sunlight.

The arch and the underground exhibition center at its base will be opened next year.

G.E. Casts a New Light



CLEVELAND, OHIO What General Electric spokesmen call the "third age of light" dawned officially in late October with the unveiling of G.E.'s new Lucalox lamp. Using a Lucalox ceramic filament to activate alkali metal vapors at higher temperatures than previously possible, the lamp is said to produce substantially higher lighting levels with no increase in the number of fixtures and with an appreciably lower cost. It produces warm, white light noticeably different from that of a fluorescent lamp.

The first Lucalox lamp, to be available commercially in January, is rated at 400 w and will produce 105 lpw, with a life expectancy of 6000 hrs. It is said to be the first time an efficiency of greater than 100 lpw has been achieved with white light. G.E. expects the new lamp can be used in commercial and industrial locations, both indoors and out.

Falling Down, Falling Down

LONDON, ENGLAND Once upon a time, there was a wooden bridge built by a Roman visiting in these parts. The bridge spanned the river that came to be known as the Thames. But the bridge fell down. Those Vikings made it fall in 1014. Then, 198 years later, a king—Henry II—built a stone bridge on the same spot. And many people, mostly merchants eager for London trade, lived and worked on it.

And it was quite a place. Heads of traitors, pirates, robbers, and the like swung from the rafters—warnings to all who entered the city and came under its laws. But the bridge—London Bridge, as it came to be known—began to fall, or at least split a bit at the seams. For, until 1750, it was the only bridge over the Thames going into London and the traffic was heavy, even in those days. Children sang a song about it falling down while repairs kept it crossable until 1832. Then the bridge came down for good, and 100' up-stream another one was built. John Rennie, a Scottish civil engineer,

designed it, but died before it was finished. His sons supervised the actual construction (1825–1831). It was then only one of many bridges crossing the Thames, but it had a charm the others lacked. In 1904, they cleaned it up and widened it a bit and things were fine for a while.

Now London Bridge is falling down for the third time. Its pilings sink another inch every eight years into the clay bank it rests on. In 1970, it will be built again, not of wood, nor of stone, nor granite. The London Bridge will be concrete, six-lanes wide, and will cost \$6,720,000.

Medal, Medal Who's Got The Medal



NEW YORK, N. Y. These noted practitioners really trust each other; they are just holding hands for the photographer (although a couple of them don't seem too happy about it). Occasion was the awarding of medals to Philip Johnson, Giorgio Cavaglieri, and Wil-

liam F. R. Ballard, marking their formal elevation to Fellowship in the AIA. Flanking them are AIA president Morris Ketchum (*left*) and New York chapter AIA president Max Urbahn (*right*).

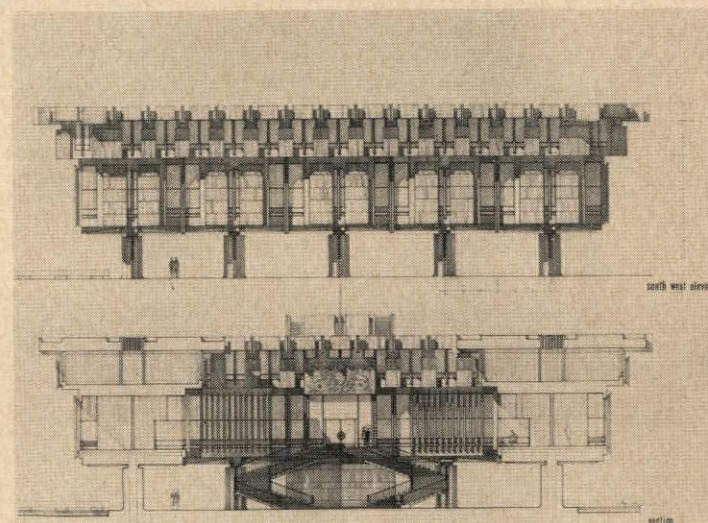
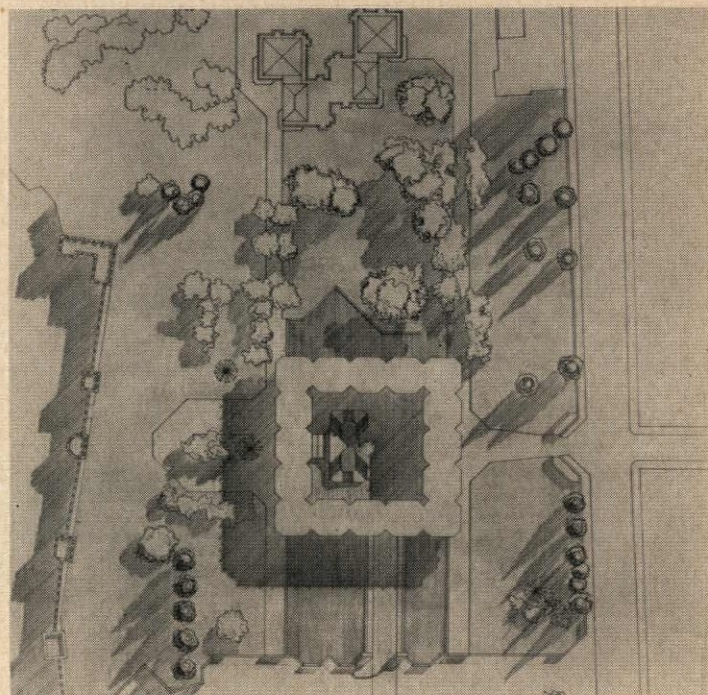
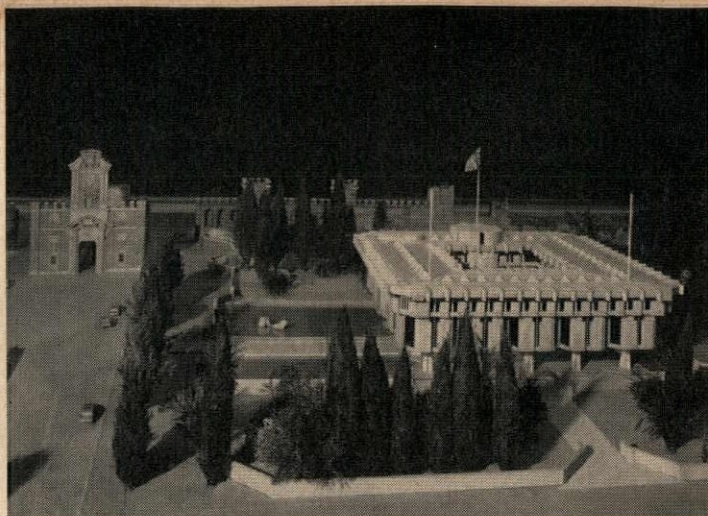
OK, let go fellows; back to the old drawing board!

British Embassy For Rome

ROME, ITALY Since 1946, when the British Embassy here was destroyed by Jewish terrorists, the Embassy staff has been working and living in "temporary" huts built on the grounds of the Villa Wolkonsky, about two miles from the center of Rome. Now plans for new Embassy offices have been approved by the Ministry of Public Buildings and Works. It will stand on the 6-acre site of the old Embassy, next to Michelangelo's city gate, Portia Pia.

Architect Sir Basil Spence's design, which makes a self-conscious attempt to integrate the building with the site, fails

because it tries too hard. Although its square two-story height does not seem overpowering—it is in scale with both its garden setting and Michelangelo's gate—its multifaceted façade upstages both the crenellations in the city wall behind it and those on the gate. The building's 16 elements, each supported by a single column, are linked around a central courtyard. Since the top two floors overhang, providing a sun shield, the effect is much like that of a substantial dowager supported on spindly legs. But the open courtyard area beneath the building does



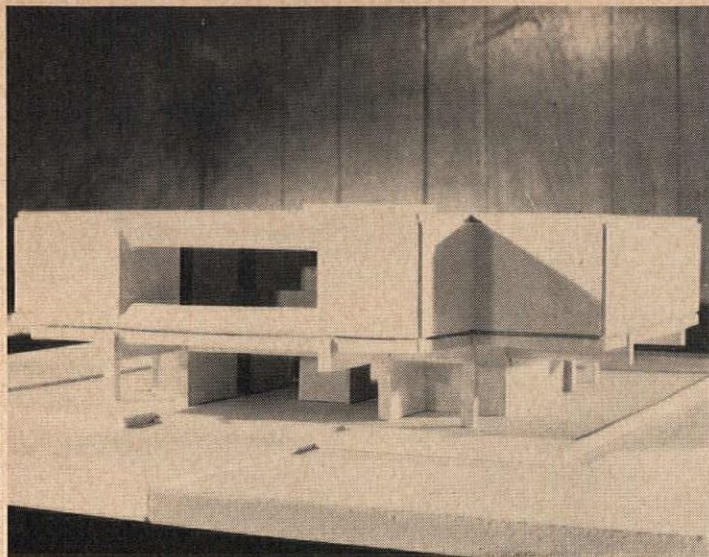
maintain the ground-level vistas of the garden. To the east and west of the building are reflecting pools. Construction, which is expected to start in 1966, will be of reinforced concrete, with slabs of travertine set off

from the walls, creating shadows but also adding to the fussiness of the façade.

The Ministry of Public Buildings and Works estimates that construction will cost about \$2,100,000.

Gold Bricking

Photo: Authenticated News International

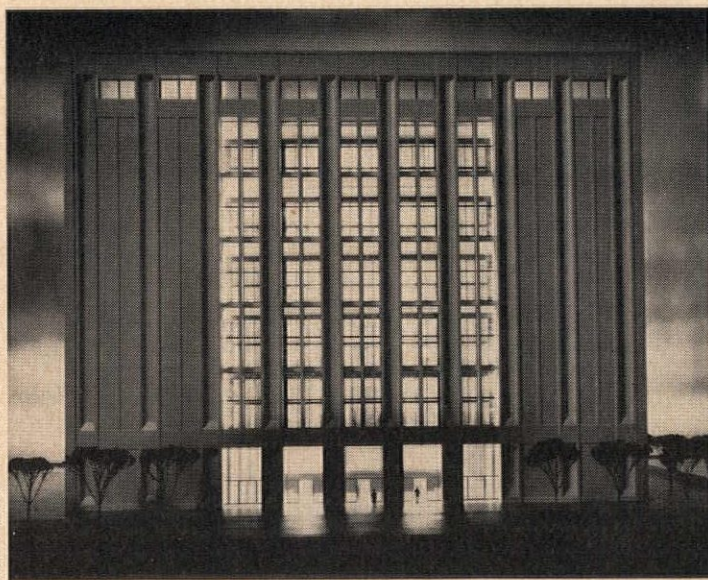


FORT KNOX, KY. State Parks Commissioner Robert D. Bell announced recently that Kentucky will request permission from the U. S. Army to construct and operate a museum at the Fort Knox Military

Reservation. Looking a bit like a gold brick itself, the "Gold Museum" will cost \$250,000, sit on a 10-acre plot of land between Bullion Boulevard and Depository Road, and hopefully add to the area's wealth.

NYU Library Model Unveiled

Photo: Maris-Ezra Stoller Associates.



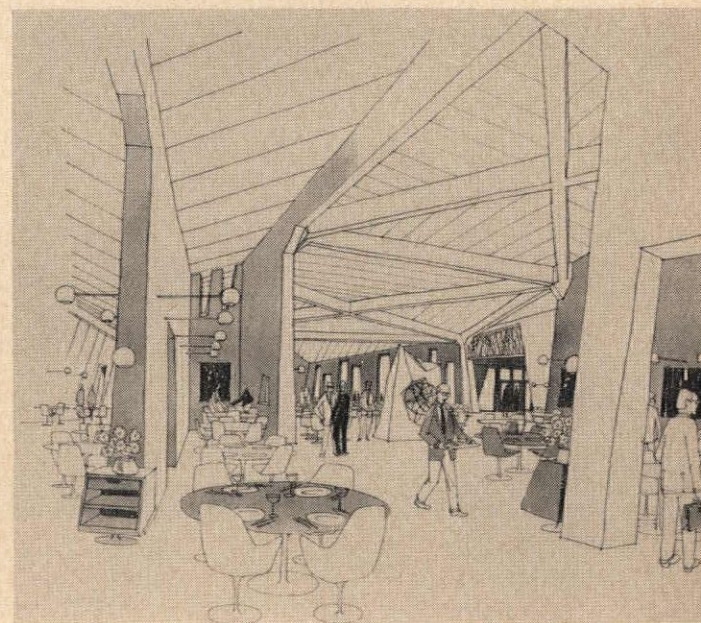
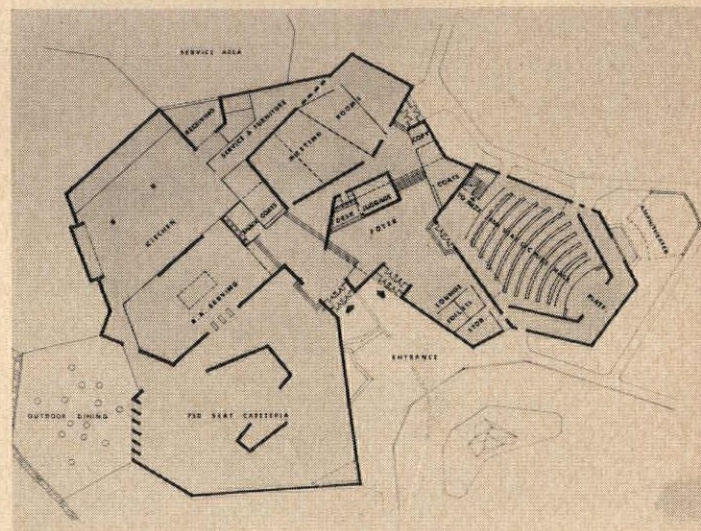
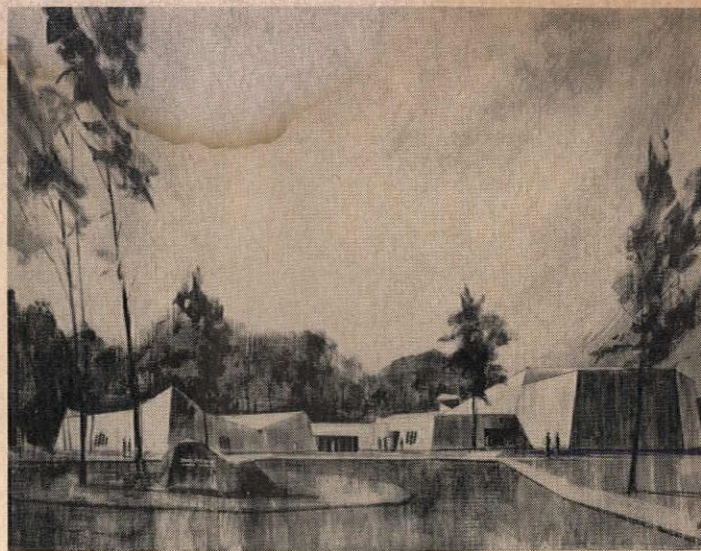
NEW YORK, N. Y. Part of Philip Johnson's and Richard Foster's design for the Washington Square campus of New York University, this general library and study center building will stand on the southeast

corner of Washington Square Park. Construction will get under way in the spring. The 12-story, \$17,500,000 building will house more than 2,000,000 volumes and provide space for 3500 students.

AEC Takes a Giant Step

BROOKHAVEN, LONG ISLAND, N. Y. The Office of Max O. Urbahn has designed a cafeteria-lecture hall for the Atomic Energy Commission Laboratories here, to be completed in the early fall of 1967. Brookhaven—an army base, then a

prisoner-of-war camp during World War II—has been operated by the AEC since then as a medical research center and now as a basic science research station. Although the AEC administers the center, actual research here is done by



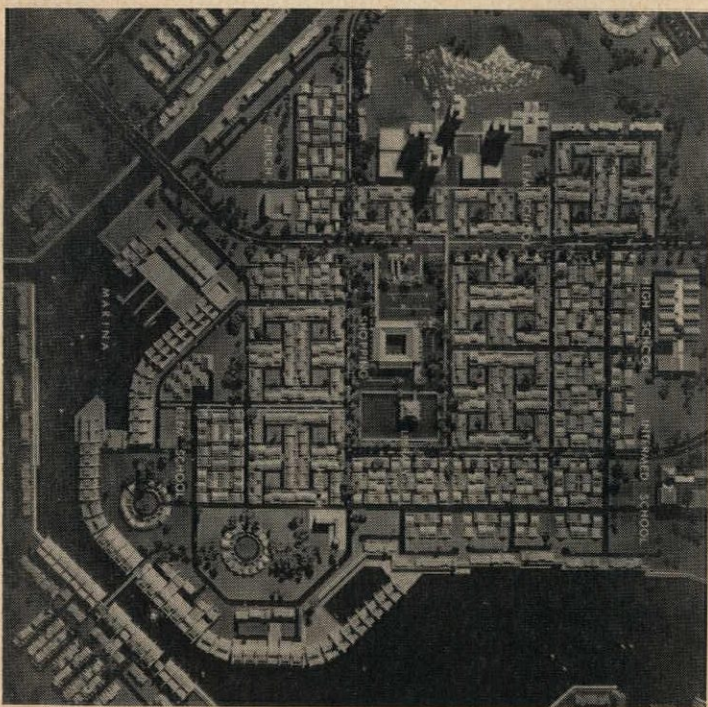
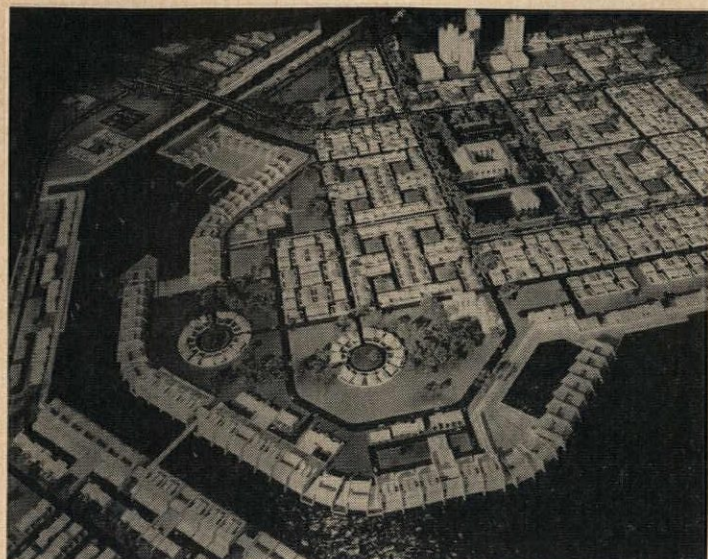
scientists of various Eastern seaboard universities. Some 4000 persons work at the center; of these, about 2000 take their meals in the cafeteria. And it is to these workers that the Urbahn office is catering. The tightly budgeted (\$38 per sq ft including fees and furn-

ishings) free-form, poured concrete and stucco building combines intimacy with expansiveness. It will serve equally well for everyday meeting and eating as for special conferences by scientists. The 53,000-sq-ft building has been sectioned to provide for the feeding of

2000 persons in rotation, the lecturing of a comfortable 452, and the gathering of 44, 59, and/or 121 in meeting rooms (see plan). All activities can be conducted simultaneously, with a minimum of overlap. Fenestration is slight (with

one window in the reception area and open viewing in the cafeteria only) and completely in keeping with the feeling of a sculptural whole. Brookhaven has taken a giant step away from conventional governmental building.

Venice on the Bay



REDWOOD CITY, CALIF. Redwood Shores, a residential community with an anticipated population of 60,000 by 1980, is being planned as part of the Redwood City area. Located on the southwest corner of San Francisco Bay, the community will have greenbelts and what might be termed bluebelts—waterways that will wind through the community, providing boundaries as well as thoroughfares. Garden apart-

ments will snake along the waterways. Elsewhere, housing will be clustered in groups of 16 units, which can be organized into superblocs of four clusters, or 64 housing units. These units would be grouped around a common open space with front entrances facing the opening. In this way, the families would have a common central open area and in addition each unit would have a private open

area in the rear.

The Architect's Collaborative developed Redwood Shores' master plan and have offered advice on what information will have to be fed into computers to determine finally how to plan and implement the schedule for Redwood Shores' completion.

Aalto in Frieze

FLORENCE, ITALY From November 14 through January 9, this city will hold its third biennial exhibition on masters of contemporary architecture. Following on the heels of Frank Lloyd Wright and Le Corbusier, Alvar Aalto will have his day with an exhibit of his work in the halls of the Palazzo Trozzi. This will be the first comprehensive showing of Aalto's work who, coincidentally, is the architect for the planned Florence cultural center. The Italians seem to think highly of the Finn—his exhibit has a 750,000,000 lire insurance tag on it.

Making the Scene at the League

NEW YORK, N.Y. New York's staid old Architectural League (founded in 1881) has for years been sliding gradually into a quagmire of geriatric self-satisfaction that has remained unaffected by occasional efforts of more progressive members to enliven it. The latest effort is the appointment of 26-year-old Robert A. M. Stern to serve the League for a year under funds from the H. Clawson Mills Fellowship, money which traditionally goes to research proposals and the like. Stern's activities will mainly focus on a series of exhibitions called—with uncharacteristic zip—"Making the Scene: the New Talent," and on several meetings at the Museum of Modern Art. The first of these exhibitions opened on October 26 with a show of the work of Mitchell/Giurgola Associates of Philadelphia. The inaugural reception proved a crowded event, with architects and artists of all persuasions jostling to get a view of the designs by Columbia University's new Chairman of the Division of Architecture (Romaldo Giurgola). Future exhibits will feature the work of

such young firms as Venturi & Rauch; Chermayeff & Geismar (graphic designers); Moore, Lyndon, Turnbull & Whitaker; and Earl P. Carlin and Peter Millard. In addition, Stern is preparing what should be a lively series of discussions at the Museum of Modern Art on city forms and how they get that way, starting with an evening talk by Sibyl Moholy-Nagy that uses drawings by P/A's Forrest Wilson. This series replaces the tired old versions of how-can-we-integrate-art-and-architecture the League has been sponsoring for the past 800 years.

Stern's own view of a recent new city form, Constitution Plaza in Hartford, Conn., can be found in this month's P/A OBSERVER.

Calendar

The National Society of Professional Engineers meets January 5-8 at the Americana Hotel in Bal Harbour, Fla. . . . **The National Conference on Religious Architecture** will be held in San Francisco, April 26-28, 1966.

The First International Symposium on Urban Transportation Planning will be held at the Hilton Hotel in Pittsburgh, Pa., February 1-3, 1966.

Oatlands Trusted

WASHINGTON, D.C. The National Trust for Historic Preservation has added another charge to the stable of well-bred estates it maintains—Oatlands, a Federal mansion with formal gardens in Loudoun County, Va., six miles south of Leesburg. It was built in 1800-1803 by George Carter, who designed the house himself. A front portico, supported by six Corinthian columns, was added in 1831, which, together with the entrance door, interior overdoors, mantels and plaster cornices, are considered outstanding examples of Georgian detailing. The original 5000 acres on which Oatlands was built were part of 63,093 acres given to Carter by his father, Robert "Councillor" Carter, who had purchased them in 1776 from Lord Fairfax, proprietor of the Northern Neck of Virginia. Given to the Trust with Oatlands were 261 acres of surrounding farmland. The

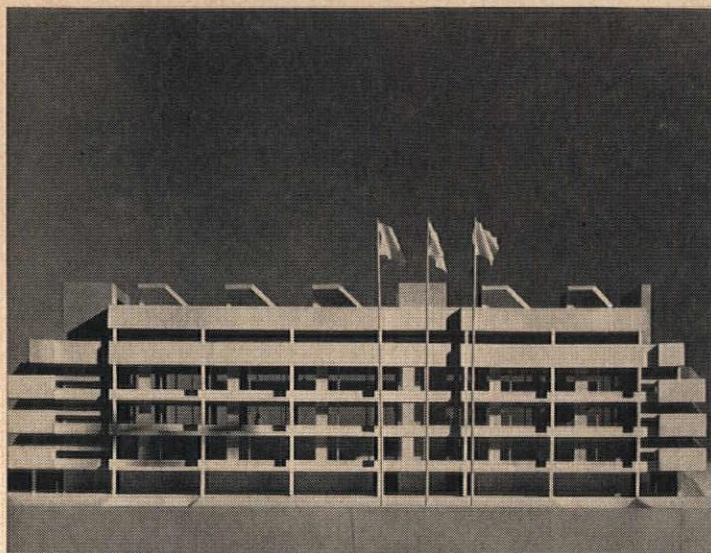
house was turned over to the Trust by Mr. David E. Finley and Mrs. Eustis Emmet, whose

parents, Mr. and Mrs. William Corcoran Eustis, had owned it since 1903.

liam Schuman, president of Lincoln Center, remarked: "It would be an insult to American artists to commission them or to buy their works merely because they are Americans. Our artists are among the best in the world and have no need of protectionism that

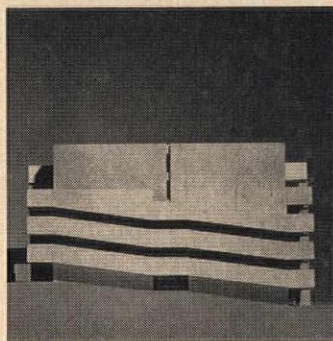
would be afforded by a narrow, chauvinistic artistic tariff against foreign artists. The only criteria that Lincoln Center recognizes are those of excellence, and in its choice of works of art, the outstanding works of American artists have won an important place."

Student Center at Duquesne



Photos: James H. Cook

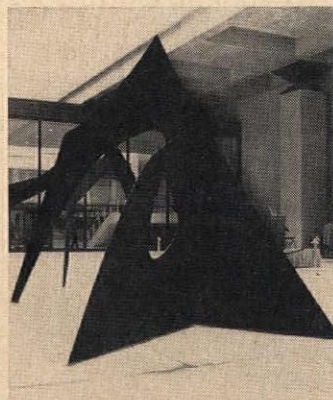
PITTSBURGH, PA. This rather convivial design for the University Center at Duquesne University is the work of Pittsburgh architect Paul Schweikher. Built with poured-in-place reinforced concrete at a cost of 2,885,000 shekels, the center will open its doors to all in December of 1966. It should be a gracious neighbor to the Mies Science Building on the same campus.



Calder and Moore at Lincoln Center

NEW YORK, N. Y. In mid-November, Alexander Calder's stabile "Le Guichet" (Ticket Window) was set up near the entrance to the Library-Museum of the Vivian Beaumont Theater. Called the "Ticket Window," because one of its great, blackened steel plates has a hole in it at shoulder height, the sculpture is 22' long, 14' high at its pinnacle.

Calder flew to New York from his Paris studio for the dedication. Also present was New York City Parks Commissioner Newbold Morris, who had actively opposed putting the sculpture on city-owned land near the Vivian Beaumont Theater. "Maybe it will grow on me," *The New York Times* quoted Morris as saying. "If the Municipal Art Commission voted to accept the sculpture, I must be wrong. I'm a product—or maybe a prisoner—of the 19th Century," Morris may have that



problem, but it seems as if some contemporary artists are also prisoners of the 19th Century. On opening night at the Beaumont, one of them picketed Henry Moore's sculpture "Reclining Figure," which rests in the reflecting pool (see p. 194, NOVEMBER 1965 P/A). He was miffed because Moore, a Britisher, had been given the commission. In commenting on the picketing, Wil-

Business and Design



NEW YORK, N.Y. Meeting in New York's Hotel Pierre recently, 194 conferees registered for the American Management Association's conference on "Design for Better Business." Although the three-day meeting produced a host of papers, which were read to an attentive audience, it seemed often as if the speakers had expected to address a much different type of gathering. Although it was an AMA group, the conferees were designers, not manufacturers. Yet the speeches read as if they were meant to explain design to people who were unaware of its function. The effect was that of a Marine just back from Viet Nam, extolling night fighting to a roomful of combat veterans: it was interesting, even informative, but seldom original.

If originality crept in at all, it came from the three foreign speakers (shown here): Paul Reilly, Director of England's Council of Industrial Design; Yukio Yamazaki, Professor of Arts and Crafts at Chiba University in Japan; and architect-designer Fernando Cavestany, of Madrid. Their originality was usually that of an observer with a slightly different herit-

age explaining the difference to outsiders.

Paul Reilly spoke of the common contemporary design dilemma when he reminded the audience that good design, like good cream, must come from the top. "This surely cannot be repeated too often. No design policy will get off the ground if it starts from the bottom or even halfway up the ladder. It must come from the top. There must be someone on the board who cares passionately about this subject, or at the very least someone who knows his art from his elbow. . . . Even a company offering so straightforward a product as rope or timber must present itself to its public, and this presentation may well start at the factory or wharf and run right through to the check book and the invoice."

Yamazaki explained the ancient preoccupation with design in Japan: "The idea of fitting the surroundings is a basic element in Japanese design and is common to all periods," he pointed out. And yet despite this, he reminded the audience, "today's design tends to think of the purpose and function of a building independently; it

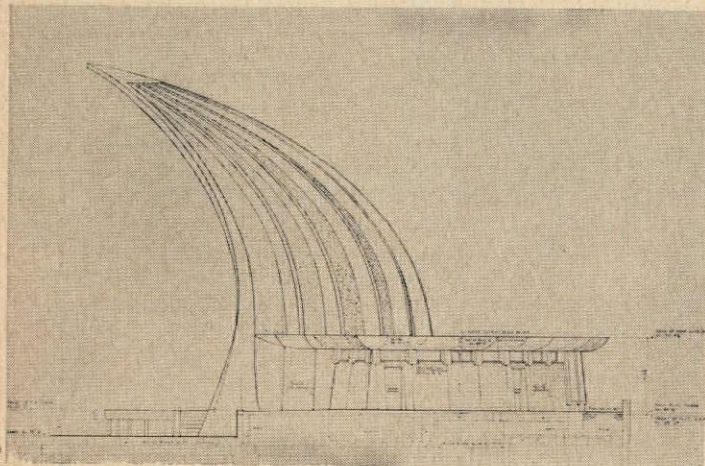
should consider whether the design is suitable for traditional customs, background, etc., to see that it does not cause friction or incongruity but plays up the surroundings, so that the object itself could also be set off from the surroundings." He also explained that "curves used in Japanese art are often comparatively simple and one-dimensional. Looking at the curves of the roofs and brackets used in architecture, the curves of the blades used in swords, the outlines of art objects, and the lines of handles, almost all of them are close to straight lines or tending toward a slight curve."

Fernando Cavestany, Madrid architect who once studied with Frank Lloyd Wright and has taught at two American universities, spoke sadly of the overabundance of bad taste, which seems a common artistic

denominator among persons of all nationalities. "How wonderful it would be, if one could be operated on for bad taste and have it removed. When we see that bad taste is shared by people from a low cultural and economic level, we are sorry and sad to a certain extent, but when we see it abound among people of a high level, among the rich, among political leaders, among company managers, then we feel invaded by a real terror, and it is then, when we realize how tragic and how serious it can be for a society, for the world, that so much bad taste exists and spreads."

For taste in general and for architecture and design specifically, it seemed heartening that the AMA devoted time to the advantages if not the substance of design. One hopes that the message carried through to management.

White Fever in Lincoln Square



NEW YORK, N. Y. They are passing the nails and pouring the concrete at Lincoln Center, and the fever to build and build is spreading into the surrounding environs. Fordham University has announced that The Perkins & Will Partnership will undertake the second stage in the development of their Lincoln Square campus just across the street and to the south of The New York State Theater. The already existing Law School building, finished in 1961, will soon be joined by two great white buildings, in keeping with present Lincolnia — a theater (in foreground of photo) and an administration building (in background). The two buildings, which form Stage II, will allow the university to consolidate its Business, Education, and Social Service Schools, as well as add a new



Photo: Louis Checkman

College of Liberal Arts and office space for the School of General Studies. Budget for the total project is \$14,000,000.

Kitty-corner to the new Fordham campus and directly behind the State Theater is Damrosch Park—soon to be graced with a \$500,000 concrete and Gunitite bandshell designed by the New York architectural firm of Eggers & Higgins. The shell, to be

known as the Daniel and Florence Guggenheim Bandshell, will be shaped like a halved onion with a point. The point will serve to increase sound distribution from the 75 musicians on stage to the 4500 persons sitting out front. The 2.34-acre park surrounding the

shell will be built at a cost of about \$350,000. As Parks Commissioner Newbold Morris was quoted in *The New York Times*, "We ought to try to get the park ready by the summer of 1966." Let's hope the reality will deny the *Times'* typographical error.

Russian Revolution Revisited

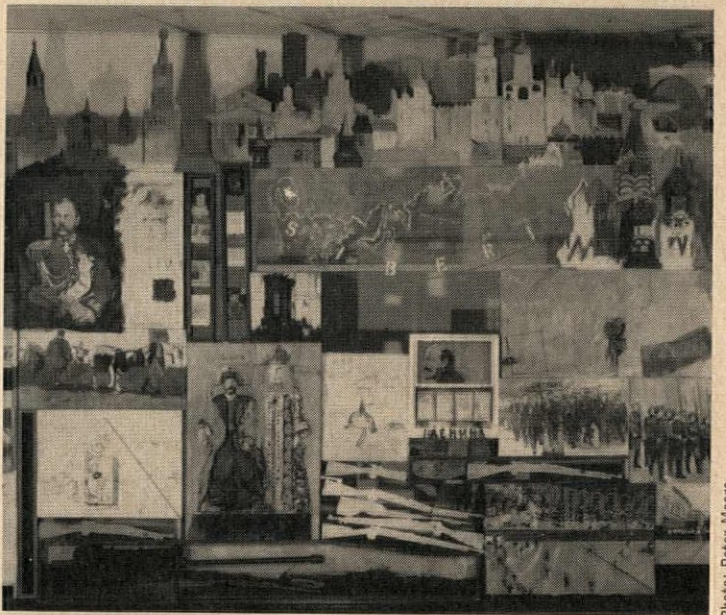


Photo: Peter Moore

NEW YORK, N.Y. If you wanted to experience the Russian Revolution, the Jewish Museum was the place to do it. From September 23 to October 31, Larry Rivers exhibited his epic mural, *The History of the Russian Revolution: From Marx to Mayakovsky*, together with 188 paintings, drawings, sculptures, and prints. The exhibition covered Rivers' work from 1950 to the present. The *History* was the largest piece in the exhibit—14' high and 33' long, with 76 individual

canvas sections and construction units—and the most time-consuming (5½ months in the making). Speaking about his work, Rivers said: "Anyway, after 5½ months, I can only be certain of two things: one is that I'm not a lazy man either about history or art—here and now; two, my *History of the Russian Revolution* is the greatest painting-sculpture-mixed media of the 20th Century, or the stupidest." Next stop for the exhibit, Minneapolis.

Fanning the Arts: Part Two

HOVIKODDEN IN BAERUM, NORWAY In 1967, this little town outside Oslo will house one of the world's greatest private art collections in a new museum-cultural center—both gifts of the Sonja Henie-Niels Onstad

Foundation. The museum, by competition-winning architects Jon Eikvar and Svein-Erik Engbreten, will go up three years after the donation of the art, which includes such greats as Picasso, Matisse, Rouault,

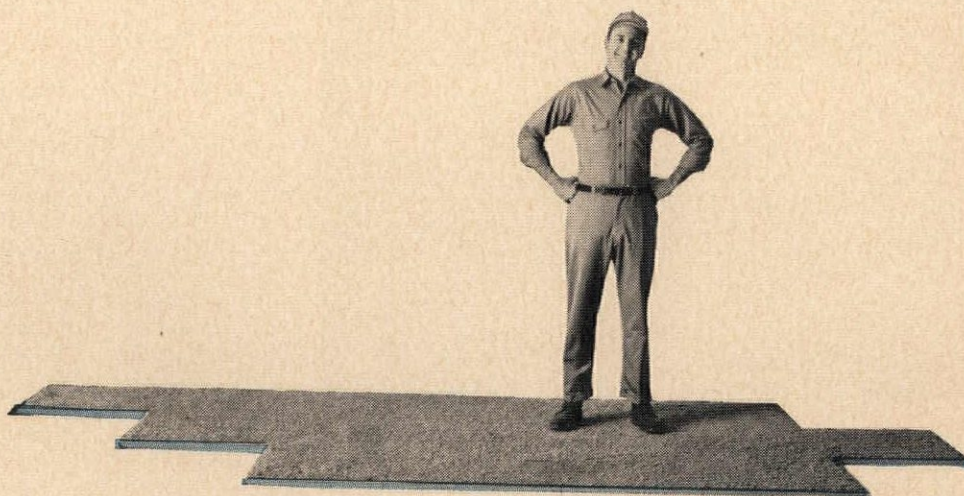


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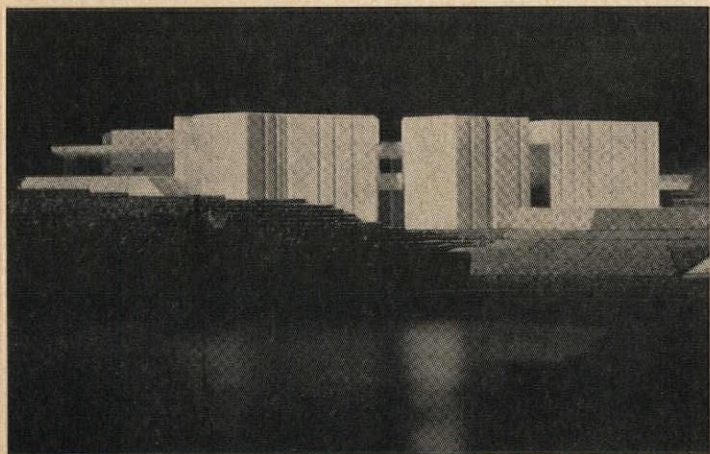
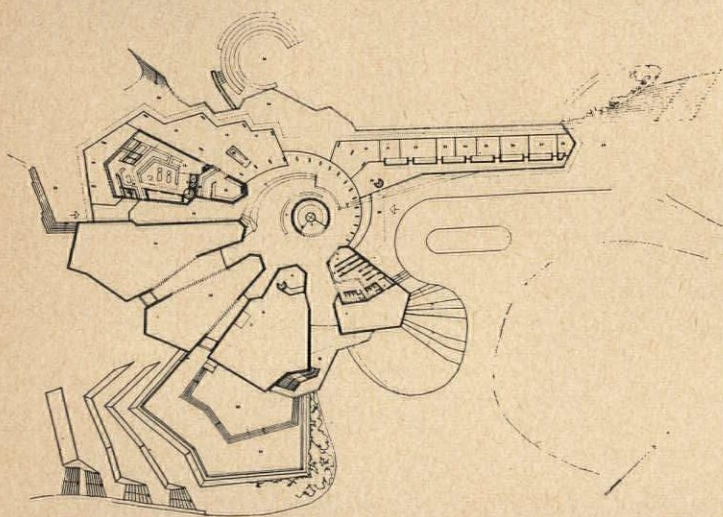
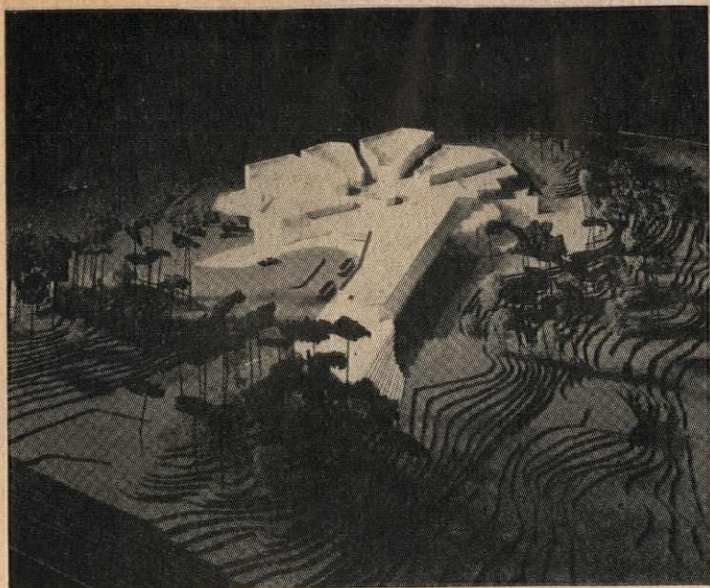
On Readers' Service Card, circle No. 345



OK. Now forget it.

(It gets along by itself just great.)





and Klee. The 11-man jury (including Miss Henie and her husband Niels Onstad) praised the winning design and its obtuse-angled irregular exhibition rooms for creating exhibition variety and visitor accessibility. Getting lost in this museum will be virtually impossible. Each gallery will lead back to the entrance lobby. The structure will include a restaurant, library, reading rooms, and lecture room.

The Hovikodden design bears a remarkable likeness to the University Arts Center for the University of California at Berkeley, by architect Mario J. Ciampi (see p. 54, SEPTEMBER 1965 P/A). Each shares the same visitor-oriented approach and each solves both the design and the circulation problems by fanning units around a pivot. One can only suppose that there is a little Aalto in all of us.

Eavesdroppings

The following news item is reprinted in its entirety from the Champaign-Urbana (Illinois) *News Gazette*: "Often, one of the best investments you can make in building a new house is to retain an architect. Not only do their services lead to economy, efficiency, endurance and easy maintenance of a home, but they also can help you in selecting quality building materials, such as real ceramic tile, which never needs waxing and lasts a lifetime."

"My strategy and words are like a man's, but I can show warmth and disappointment, which in a man would be thought weak. But I never cried to get anything in business and I never intend to. . . . I'm only 33, and I want to build an empire. . . . I don't think real estate developers are obliged to improve the premises they tear down. If they do, they go beyond duty. The community should expect no more of a developer than of any manufacturer." *Mrs. Cecilia Benattar, president of the U.S. branch of the British holding company that bought the Savoy Plaza site in New York City for the soon-to-be-erected 50-story GM building, as quoted in Life magazine.*

"Louis Sullivan gave industrial designers, as well as architects, a worthy catechism that has become a classic phrase, when he said that Form shall follow Function. Certainly, this is an excellent guide, and when the function is perfect, the form approaches perfection—witness a wheel, a propeller, an egg; but even when the function is imperfect, we tend blindly to follow Sullivan's dictum and we stumble and produce designs that are far from acceptable. There are times when the form must include, but go beyond, the function.

"Architects also swallowed this epigram hook, line, and sinker. Departing from the overdose of neoclassicism that swept this country, the T-square took over and swept every compass and French curve off the drawing boards. Glass and metal boxes towered monotonously skywards until our city streets became canyons of boredom and owners had to rush out for trees and

fountains to relieve the sterility. Top-flight men in the architectural profession have by now gotten the message and the sculptured form has taken over—note Saarinen's Dulles Airport and his TWA bird at Kennedy, the fishlike plan of Harrison and Abramovitz's Hartford Insurance Building; the Corbusier Chapel at Ronchamp, and Phillip Johnson's flowing museum at Dumbarton Oaks. These men have recognized that they must bring our surroundings to psychological human dimensions—we cannot, we must not be mentally dwarfed." *Henry Dreyfuss speaking at the meeting of the Industrial Designers Society of America.*

"Let us hope that the bad taste that has dominated our industrial and commercial life for so many generations, that has flooded the market with products bereft of any charm, grace or beauty, that has blighted our cities and countryside and blunted our sensibilities—and which shows some signs of fading—will one day disappear. It is possible, and I hope probable, that bad taste will be rejected because it has been found to be economically inefficient, and to be economically inefficient because it is socially inefficient. Ugliness is a bad environment for productivity; ugliness and vulgarity narrow the horizons of society as a whole." *Frank Stanton, president of the Columbia Broadcasting System, speaking to the Art Directors Club of Philadelphia.*

Personalities

Professor Robert D. Katz of the University of Illinois, College of Fine and Applied Arts, has received two grants to study the role of the professional designer in publicly assisted housing programs. . . . **Ray Y. Okamoto**, San Francisco architect-planner, has been appointed by the Danish Ministry of Cultural Affairs to be lecturer in planning and urban design at the new Jutland School of Architecture in Aarhus, Denmark. Okamoto will help to establish a department of planning and urban design at the school. . . . **Vincent Kling**, Philadelphia architect and 1940 Columbia graduate, has recently been appointed an alumni

Continued on page 50



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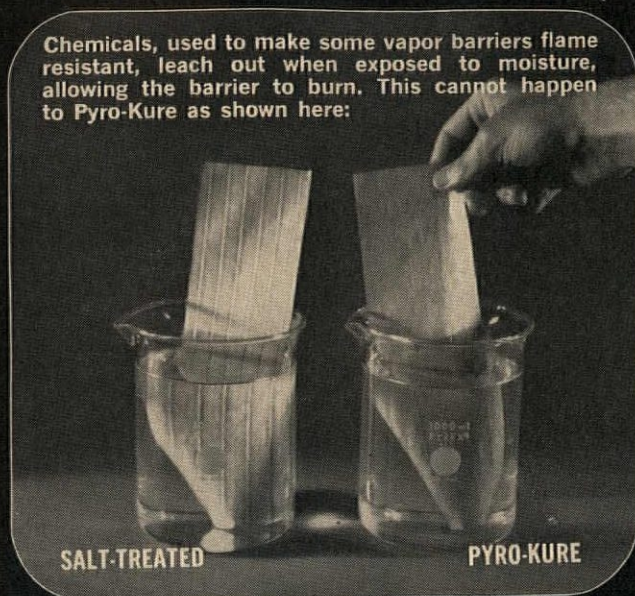
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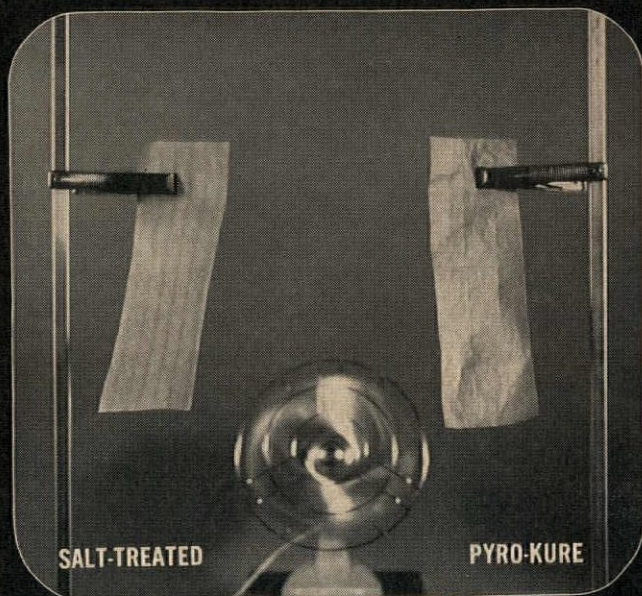
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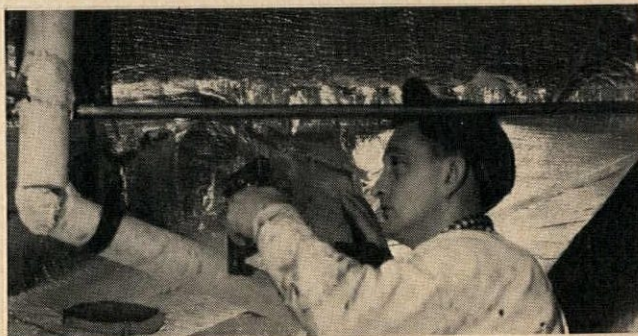
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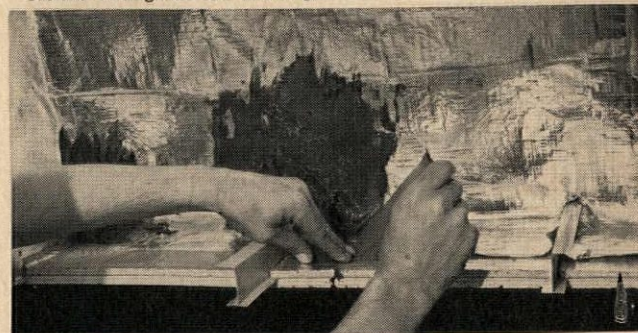
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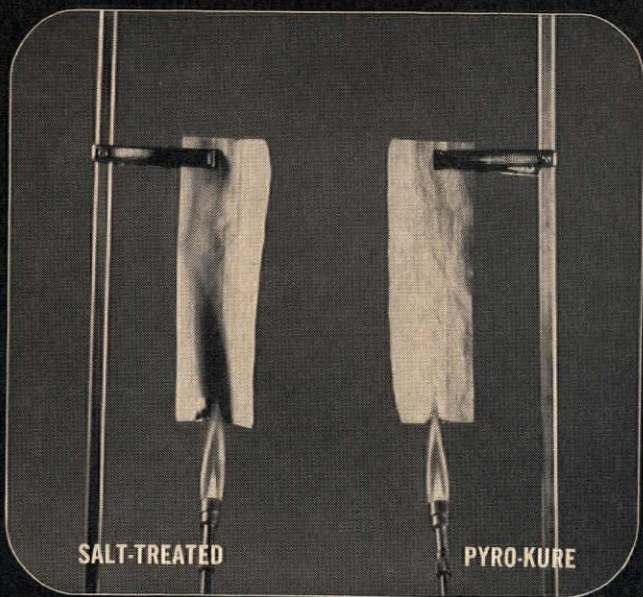
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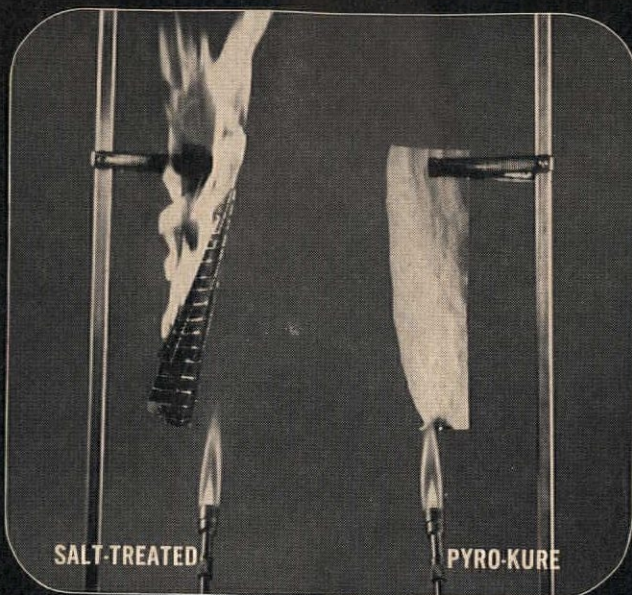
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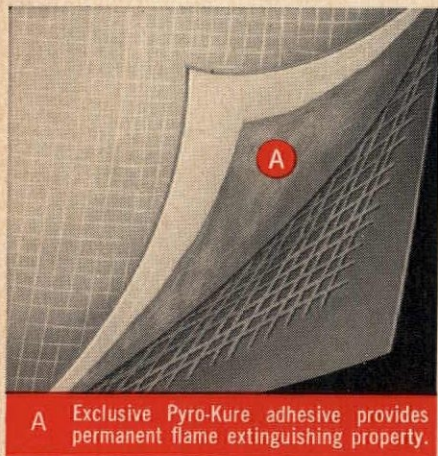
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Continued from page 46

trustee of the university . . . **Douglas McHenry**, director of development, Portland Cement Association Research and Development Laboratories, has been elected chairman of the Reinforced Concrete Research Council. **Paul F. Rice**, who had been technical director, was named vice-chairman . . . **T. Norman Mansell** will be President of the Philadelphia Chapter, AIA, in 1966 . . . **Eric C. Fisher**, Schenectady (New York) architect, has been appointed to a two-year assignment in Tanzania, East Africa, under the auspices of the C.I.P.M. (Council for International Progress in Management). The project is geared to train technicians and builders in the country to achieve higher standards of housing . . . The American Institute of Planners has recently re-elected **C. David Locks** president and **Irving Hand** vice-president . . . **Charles E. Thomsen** has been appointed to the newly established post of executive director of the New York Chapter AIA.

AWARDS

Nominations for the **1966 Reynolds Memorial Award** will be accepted through January 31, 1966. The award, which is the largest in the architectural field, carries an honorarium of \$25,000 "for design of a significant work of architecture in which aluminum has been an important contributing factor." An architect may be nominated by anyone, including himself or his firm, using a form available from the AIA. Interested? Write: The Reynolds Award, The American Institute of Architects, 1735 New York Avenue, N.W., Washington, D.C. 20006 . . . The Key Man Award of the Avenue of the Americas Association in New York has been given to **William S. Paley** and **Dr. Frank Stanton** for their "outstanding service to the Avenue" in their selection of site and choice of architect for the new CBS building . . . **Max S. Wehrly**, executive director of the Urban Land Institute in Washington, D.C., and **Dennis O'Harrow**, executive director of the American Planning Officials in Chicago, were recently awarded the American Institute of Planners 1965 Distinguished Service Award for their work in planning. AIP Honor

Awards were also given to the cities of **Rockville, Md.**, and **New Haven, Conn.**, for their successes in comprehensive planning. No award went to a city with a population of over 500,000. None was found worthy . . . Cities awarded the AIA Citation for Excellence in Community Architecture were **Philadelphia, Pa.**, for Society Hill; **Louisville, Ky.**, for Village West; **Salt Lake City, Utah**, for the Downtown Second Century Plan; **San Antonio, Texas**, for the Paseo del Rio; **Oklahoma City, Okla.**, for the Downtown Plan; and **Canton, Ohio**, for Central Plaza. The AIA also announced that it has entered into formal affiliation with the **Guild for Religious Architecture**. Fresno's Fulton Mall will receive an AIA citation for excellence in community architecture. The purpose of the citation is to commend public and private groups who have sponsored architectural projects that have contributed to a better community environment. This is the first time a California project has been so honored. . . . The American Institute of Steel Construction has presented the Verrazano-Narrows Bridge an award for its outstanding contribution to technology and esthetics. Also lauded by the AIA were the citizens of Hartford (Connecticut) and Urbana (Illinois) for their Constitution Plaza and Lincoln Square, respectively. The award, "Citation for Excellence in Community Architecture," was begun early this year. No single building can qualify for a citation. The purpose of this AIA award is to recognize a city's effort and success in creating liveability.

Engineering Info Center Being Set up

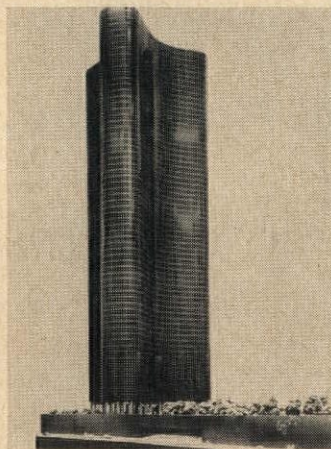
NEW YORK, N. Y. A clearing house for engineering information, an automated information center, is being set up in New York City. Located in the United Engineering Center, the project is being coordinated by three engineering groups: the Engineering Index, Engineers Joint Council, and United Engineering Trustees. It is planned as the first step toward a scientific and engineering information network proposed by the Federal Government. According to one spokesman, "The development

of an orderly and comprehensive system will provide the opportunity for those who will seize it—to relegate much of the literature searching to technicians or clerical personnel. It is interesting to note that a 1 per cent decrease in average salaries to do this country's engineering work is equivalent to about \$100,000,000 per year."

Building Products Data

NEW YORK, N.Y. To answer a need for improved building products data, unaffected by advertisers, the Building Materials Research Institute, Inc., was recently formed. It is publishing and selling voluminous, impartial reports that are particularly oriented toward the elastomeric and plastic materials fields; surveys take major brands of a given group or type of product and subject them all to the same tests. The resulting reports are of two types: a large Research Report gives detailed information on test procedures and results, and smaller Digest Reports contain synopses of the former. In each case, the specifier is forced to make his own evaluation and selection. In addition, the Institute will conduct special surveys on request. Further information is available from the Institute at 60 East 42 St., New York, N.Y.

The Shape of Things to Come



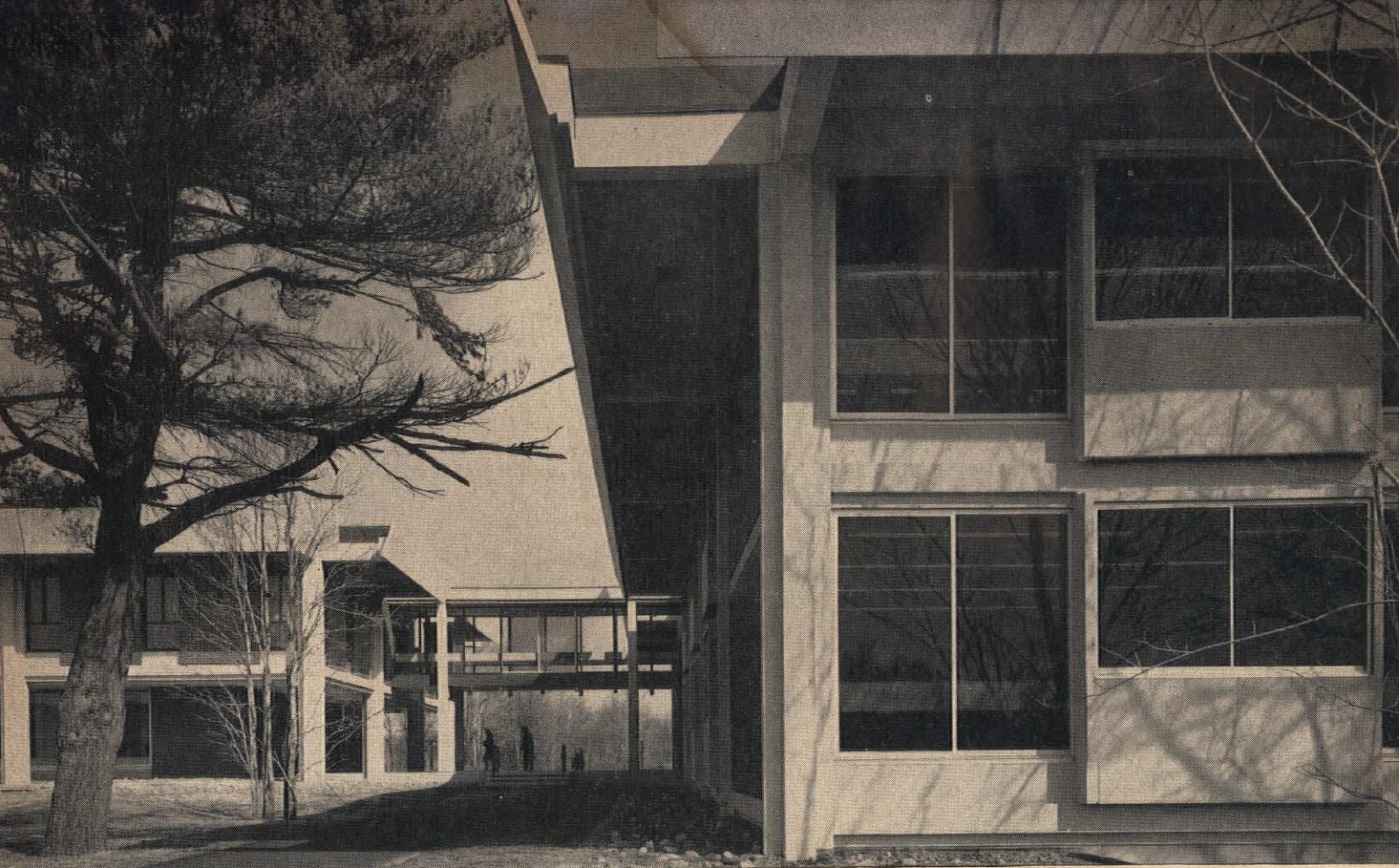
CHICAGO, ILL. The challenge of designing a high-rise building in Chicago that can assert its individuality is becoming increasingly complicated (see p 55, MAY 1965 P/A). And the designs themselves increasingly reflect this. The latest proposed addition to the Chicago skyline

is this 70-story, curvilinear apartment house, the Lake Point Tower, which, when completed in 1967, will be the tallest reinforced concrete frame building in the world. At 645', it will be 18' higher than Montreal's Place Victoria, the current record holder. Ground-breaking ceremonies will be held this month.

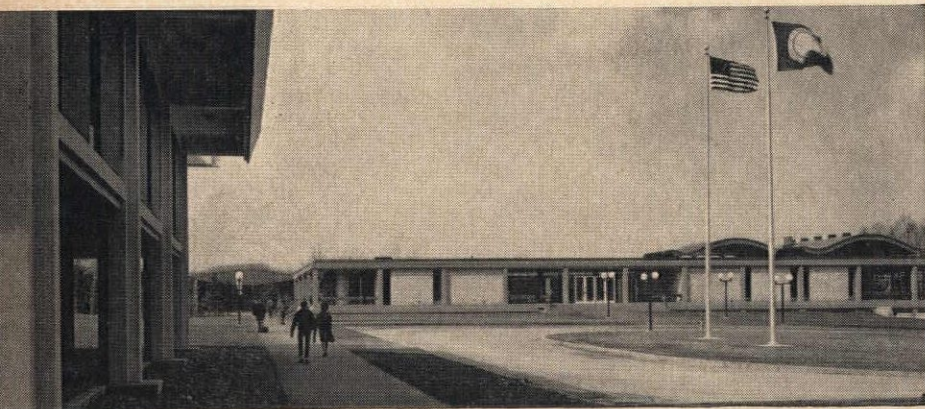
Designed by Schipporeit-Heinrich & Graham, with Anderson, Probst & White associated, it will have a continuously curving, symmetrical-shaped façade around a triangular service core. Bronze-tinted glass curtain walls with anodized aluminum mullions form the façade. The tower will rise from a two-story base, which will house parking for 700 cars, a health club, a restaurant, and a coffee shop, in addition to the lobby. Living space will total 1,300,000 sq ft; projected cost is \$20,000,000.

Save Our Capitol

WASHINGTON, D. C. The AIA recently issued a call for the preservation of the nation's Capitol. In a prepared statement, it offered the urgent reminder that "If the Capitol continues to expand it will rapidly lose all resemblance to the original building." Under consideration now is an extension to the West Front, which would obscure the last of the original exterior walls. "If reconstruction is structurally necessary," comments the AIA, "it should be carried out in strict accordance with the present design." The original design was done by a physician, William Thornton, who was allowed to submit his proposal three months after the official competition deadline. His design impressed George Washington: "The grandeur, the simplicity, the beauty . . . will, I doubt not, give it a preference in your eyes as it has in mine." Additions to and changes in the original structure have been made before. Some modifications were made when the Capitol was restored after being burned during the war of 1812. In 1857, an extension to the House wing was added. In 1859, the Senate extension was completed. And in 1863, the present dome was topped out. The most recent change, an extension of the east wing, was in 1960.



CORNING COMMUNITY COLLEGE, Corning, New York; Architects: WARNER, BURNS, TOAN, LUNDE, New York; Structural Engineers: SEVERUD-PERRONE-FISCHER-STURM-CONLIN-BANDEL, New York; General Contractor: ROGER & McCAY, INC., New York; Precast, Prestressed Concrete: FORMIGLI SALES COMPANY, Philadelphia, Pa.

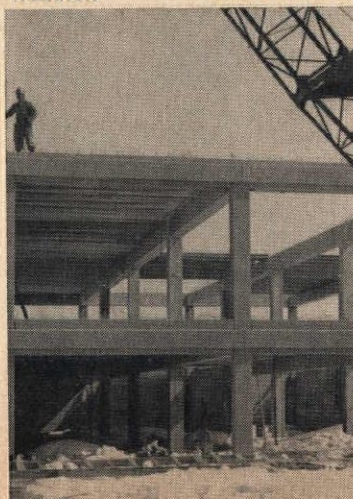


Student Center looking west. Each main building is so placed that additional elements may be added at a future date without crowding.

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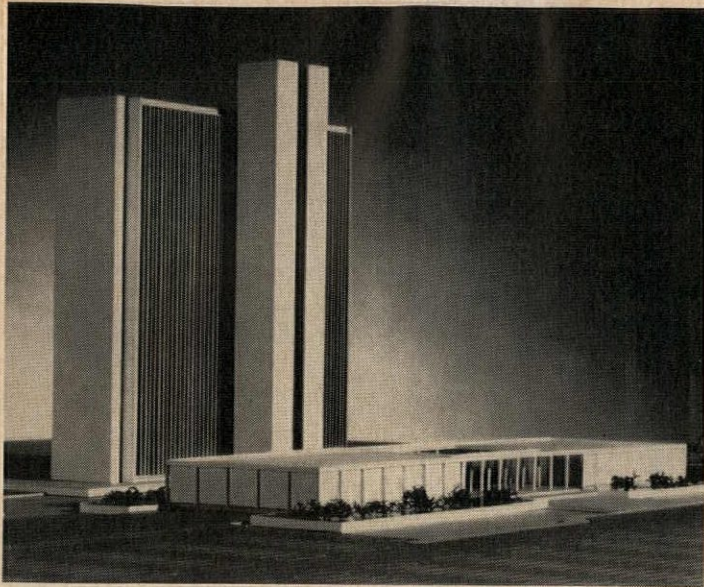
Community College precast with Incor®

New York's new community college in upstate Corning is one of many two-year colleges being built to cope with the mounting educational needs of the nation. Conceived as an entity, its structures have a consistent character. Each building is placed to accommodate future expansion without crowding.

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FOB—Los Angeles-Style



LOS ANGELES, CALIF. GSA has given the nod to Charles Luckman Associates to proceed with working drawings for the new \$13,700,000 Federal Office Building here. The design, which will include a one-story post office and cafeteria area, a 17-story office area for seven government agencies, and an intervening courtyard, bunches all services (fire stairs, restrooms, mechanical distribution

ducts, and elevators) in three separate towers. Only one tower, housing the elevator shaft (see photo), will read as a unit. It faces the 17-story, 595,953-sq-ft building like two skinny piano keys. Materials include precast concrete, which will be smoothed and painted an off-white, and clear spandrel glass. The project is scheduled for completion by the end of 1967.

WASHINGTON/FINANCIAL NEWS

BY E. E. HALMOS, JR.

With both Congress and the President momentarily out of town (until Congress reconvenes early in January), architects and the construction industry could take a moment to look at what Congress wrought in its long 89th session.

As a matter of arithmetic, the lawmakers had done well for both the profession and the industry; on matters of policy and procedure, they had dictated some profound changes.

Congress either appropriated or authorized spending for construction work that will top \$22,000,000,000 over a period ranging up to five years, and will generate nearly as much spending from other sources. ("Authorization" is a sort of hunting license for a Federal agency—a promissory note that Congress will appropriate the needed money). Out of this total, a good part of \$18,000,000,000 is of direct interest to architects. It includes such items as:

A total of \$280,000,000, over two years, in matching grants for construction of health research facilities; \$1,100,000,000 for projects of all kinds in the Appalachian area; \$1,700,000,000 for military construction; \$4,300,000,000 for all types of civil public works; \$2,600,000,000 for Atomic Energy Commission Construction; \$100,000,000 over five years for elementary and secondary school construction; \$7,800,000,000 for various housing programs; \$325,000,000 for highway beautification; even funds to permit the much-criticized Architect of the Capitol to begin planning for a third Library of Congress.

As to matters of policy and methods of operation that will affect architects, there were many changes—ranging from the establishment of a brand-new cabinet department (Housing and Urban Affairs) through approval of a new National Arts and Cultural

Development group (PL89-125), to approval of a new State Technical Services Act (PL89-182) under which technical developments will be made available at a local level, and changes in the Foreign Agent Registration Act that seemed to exempt architects from registering for most work for foreign clients.

Department of Housing and Urban Development

Perhaps of greatest interest is the establishment of the new Housing and Urban Development department (already known in Washington jargon as "HUD"). Its most immediate effect will be to create a new rank for the head of the agency that was formerly the Housing and Home Finance Agency; fairly soon, its formation should begin to show in changes in operating personnel, and, more particularly, in operating policies. The task of creating a department out of the sprawling HHFA empire—made up of almost autonomous units—will be a huge one. Finally, as the new department gets itself together, there could well be other shifts, since much of its intended function overlaps those of many established agencies.

Perhaps most significant has been the steady emergence of the architect as one professional who must be considered first, whenever the Federal Government considers any construction, planning, or beautification work (much to the open annoyance of civil engineers and others in the construction industry).

This emergence—certainly in part the result of an aggressive policy by architectural groups—shows up in the deference paid to architects in Congressional hearings, speeches on the floor of Congress, talks and conferences by high administration leaders, and appointments to various committees and commissions.

It even extended, late in November, to the appointment of an architect (finally) to head the important Public Buildings Administration of the General Services Administration: Casper F. Hegner, who holds degrees in architecture from Princeton and Yale Universities. Succeeding Robert T. Daly (retired) as Commissioner of PBS, Hegner also serves as a member of the National Capital Planning Com-

mission. He was formerly Manager of Operations in the construction office of the Veteran's Administration, and before that a partner in the Denver firm of Smith & Hegner.

(An example of the kind of comment that has kept the name "architect" before the public was the criticism of the selection of Mies van der Rohe to design a new downtown Washington library, on the ground that Mies has never designed a local structure, and isn't a Washingtonian. There's considerable room for debate over whether such criticism is good for the profession—but it certainly makes local headlines. Louis Justement used a luncheon meeting of the American Society of Civil Engineers as a forum for his comments.)

Water Distribution Study

The Building Research Advisory Board has launched a new study aimed at establishing criteria for distribution to buildings of chilled and dual and low-temperature water, through underground heat-distribution systems.

An advisory committee headed by Edward J. Losi, New York consulting engineer (Costentini Associates), is handling the actual conduct of the study, which will be backed by a group of manufacturers. Idea is to identify and evaluate essential functional requirements and technical characteristics that may be applicable to systems and components; define the existing and developing new test methods; and gather relevant statistical data. Eventual outcome is expected to be a set of design guides and criteria.

Taft-Hartley Unchanged

Dropping of the fight for repeal of the famous section 14(b) of the Taft-Hartley Act (the "right to work" provision) and failure of every other labor-backed measure of any consequence in the just-completed session of Congress is no cause for rejoicing by a cost-worried construction industry. The 14(b) matter, for example, actually remains just where it was: approved by the House, still awaiting action in the Senate; the annual attempt to permit "common situs" picketing at construction jobs is still before a House committee. Bills that have not



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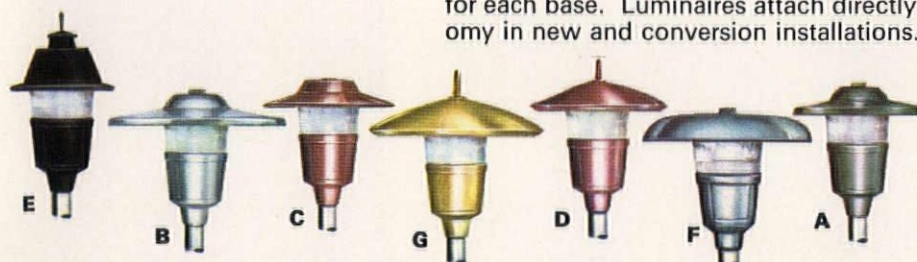
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Avoid the problems of multi-suppliers by selecting from L-M's complete line. In addition to luminaires—poles, ballasts, brackets, wiring and power supplies are available from L-M. Your L-M Authorized Distributor, backed by an L-M Lighting Engineer and an L-M Field Engineer, is happy to give you technical assistance.

STYLEKING (Scale: 1"=3')



Wide selection of styles plus choice of 9 smart colors to match any architectural decor. Amazing versatility, too, with 7 distinctive cover designs for each base. Luminaires attach directly to pole tops for installation economy in new and conversion installations.

SPECIFICATION

Utilizes lamps rated through 250 watts mercury or 620 watts (10,000 lumens) incandescent; constant-wattage, high-reactance, or constant-current ballasts; IES Types I, I-1 way, II, II-4 way, III, IV and V distributions; 3-inch and 7-inch mounting fitters; photocontrol accommodation for Styles A, B, C, and F units.

LINE MATERIAL'S COMPLETE OUTDOOR LIGHTING LINE ALSO
INCLUDES HIGH, MEDIUM AND SOFT ILLUMINATION.

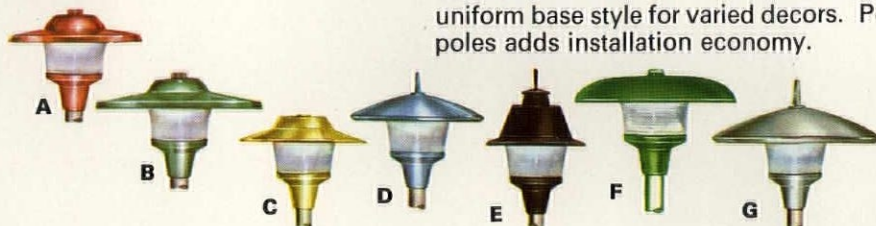
TURN PAGE

ADD STYLING AND COLOR TO YOUR JOB FROM L-M'S MEDIUM-SOFT ILLUMINATION LINE...

FOR DRIVEWAYS • MALLS • PARKS • WALKWAYS • POOLS AND RECREATIONAL AREAS • MOTELS
SCHOOLS • CHURCHES • STATION PLATFORMS • BUILDING ENTRANCES • RESIDENTIAL AND BUSINESS STREETS

100-400 watts mercury • 405-620 watts incandescent • 4000-20,500 lumens • 0.6-1.2 maintained footcandles

STYLETTE (Scale: 1"=3')



Modern styling plus application versatility with 7 designs and choice of 9 decorator colors. All the distinctive covers are interchangeable with the uniform base style for varied decors. Pole top mounting for 3-inch diameter poles adds installation economy.

SPECIFICATION

Designed to operate incandescent lamps rated 405 watts with glass refractors; IES Types I, I-1 way, II, II-4 way, III, IV, and V distributions; 3-inch mounting fitter; built-in photocontrol.

STYLESIELD (Scale: 1"=2')



Distinct, modern design combined with superior lighting performance. Available for mounting on 2-inch supports or davit poles with a 2-inch tenon. Furnished with a choice of 9 decorative colors.

SPECIFICATION

Available for use with 400-watt mercury lamps; IES Types, II, II-4 way, III, and IV distributions; photocontrol accommodation.

STYLED SUBURBANAIRE (Scale: 1"=2')

Fresh, modern appearance plus economical, quality lighting. Features open refractor that reduces dirt and moisture accumulation. Mounts on 1 1/2-inch pipe support. Available in a choice of 9 decorative colors.



SPECIFICATION

Utilizes 405-watt to 620-watt incandescent lamps and 100-, 175-, or 250-watt mercury lamps; high-reactance or reactor ballasts; IES Types I, I-1 way, II, II-4 way, III, IV, and V distributions; built-in photocontrol receptacle.

FOR COMPLETE INFORMATION on Line Material's line of outdoor lighting contact your L-M Distributor or write Line Material Industries, Milwaukee, Wisc. 53201.

TRADITIONAL LAWN-GLO® (Scale: 1"=2')



Combines charm and styling of Early American whale oil lantern with efficient, controlled illumination. Constructed of cast aluminum, with shatterproof acrylic plastic refractor, for long lasting beauty and minimum maintenance. Available in black or white with gold finial, roof, and refractor clips.

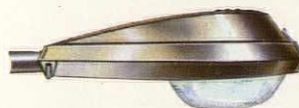


Wall Mounted

SPECIFICATION

Accommodates 100-watt mercury lamp and high-reactance ballast, incandescent lamps through 150-watts; mounts on standard 3-inch OD yard light post; available with or without photocontrol.

UNISTYLE (Scale: 1"=2')



Superior lighting performance combined with efficient, modern appearance. Designed for 1 1/4-inch or 2-inch supports. Furnished with aluminum finish. Provides installation economy with one-piece lower housing, internal ballast and leveling assembly.

SPECIFICATION

Available for use with 100-, 175-, 250-, or 400-watt mercury lamps; internally mounted constant-wattage, high-reactance, reactor or constant-current ballasts; IES Types II, II-4 way, and III distributions; built-in photocontrol receptacle.

LAWNNAIRE (Scale: 1"=2')

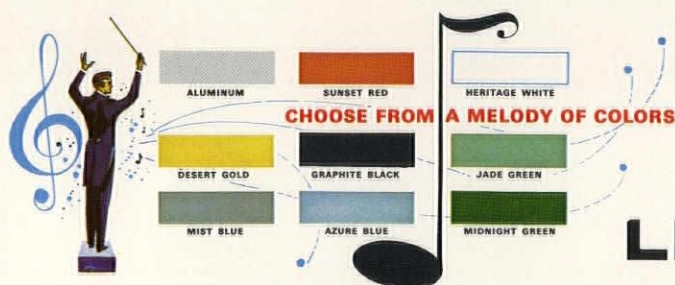
(Scale: 1"=2')

Contemporary styling combined with application flexibility. Available in a choice of 9 decorator colors. For mounting on 3" OD pipe.



SPECIFICATION

Available for use with 75-, 100- and 175-watt mercury lamps; internally mounted high-reactance ballast; IES Types II, IV and V distributions; built-in photocontrol.



LINE MATERIAL®



INDUSTRIES

MCGRAW-EDISON COMPANY



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OUTDOOR LIGHTING
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L-M SALES OFFICE**

705-2

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Glen Burnie Tel: 761-0340

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Duxbury Tel: 934-2988
Longmeadow Tel: 567-5016

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Detroit
(See Birmingham, Mich.)
Grand Rapids Tel: 949-1848
Jackson Tel: 784-7148

MINNESOTA
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been acted on can be revived next year.

Financial

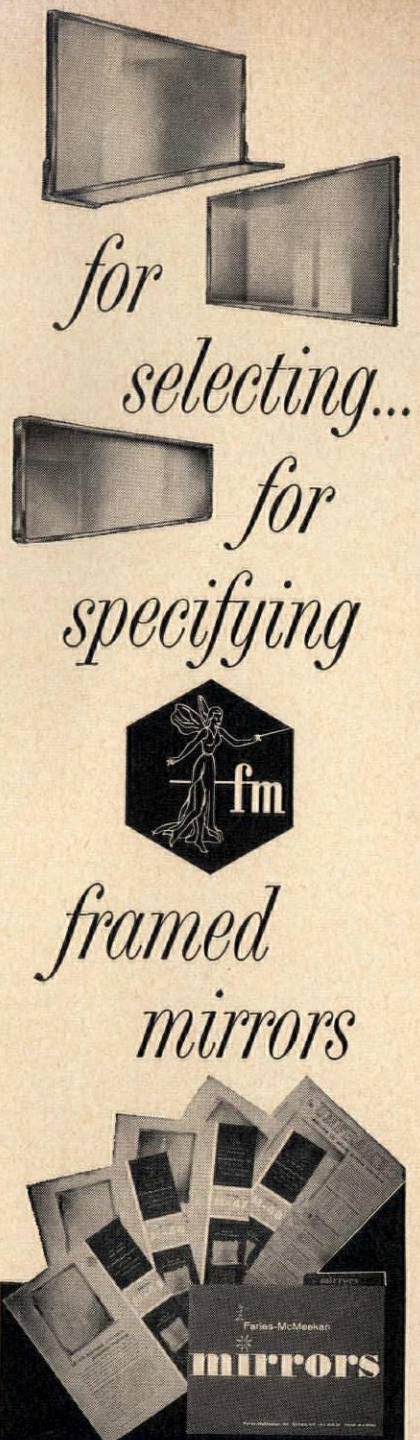
The overriding financial fact for the construction industry was the huge total (see lead item, this column) of money that Congress set up for such work, either immediately or over a period of years. Such a backlog of Federal money—much of it to be matched by state and local grants—virtually insures a continuing high level of business.

The annual forecasts were beginning to come in, too—and most of them were pegged to another rise in dollar volume for 1966, perhaps as much as 5 per cent for another all-time record.

But the economists were beginning to hang out some warning flags: The steady rise in construction volume over the past several years has been mostly in terms of money—not actual bricks and mortar. Even if the volume goes to \$72,000,000,000 or more next year, physical volume isn't likely to be higher than it was two or three years ago.

Actually, construction volume was beginning to level off as fall began: In September, according to the Bureau of the Census, value of new construction put in place was \$6,400,000,000—almost exactly the same as it was in August, and up about 4 per cent over the previous year. Private housing continued its steady decline, dropping slightly below 1964 to a rate of 1,422,000 units. There were some signs, statistically, that housing might revive on house sales: In August, sales were 62,000 units—up 11 per cent over a year ago; a total of 408,000 units were sold in the first eight months of the current year—up 7000 over 1964. But note that prices were up too: median price for homes sold in August 1965 was \$20,400—up 9 per cent from the same month a year ago.

Construction machinery manufacturers seemed to be having a better year, along with the industry they serve, although statistics were a little uncertain on comparisons. Nonetheless, in 1964, machinery makers did 22 per cent better than in 1963 (total shipments of \$2,256,000), and, it appears, will do better than that when 1965 figures are toted up.



NEW file folder shows complete mirror line

For selecting and specifying mirrors, this easy-to-use file folder can serve as a quick, convenient reference. Each FM mirror model is illustrated, carries complete size range, and includes specification information. Write today requesting the number of file folders needed for your office.

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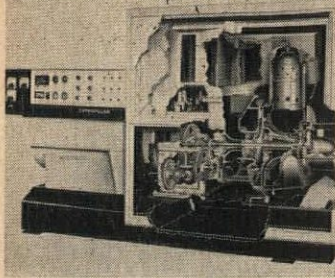
P.O. Box 35 Elkhart 2, Indiana

On Readers' Service Card, circle No. 372

On Readers' Service Card, circle No. 352

NEW PRODUCTS

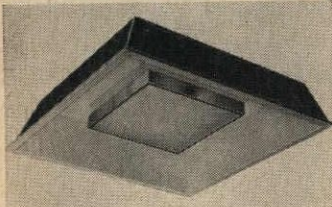
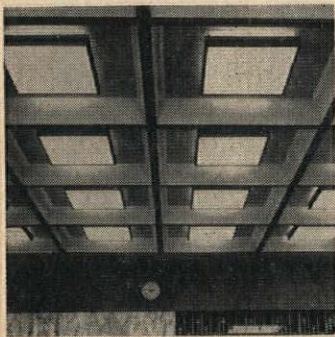
Air/Temperature



Gas Turbine for Total Energy

Gas turbine is said to cut utility costs in half when used in total energy systems. "Caterpillar 200-kw Turbine Electric Set" furnishes low-cost electricity to industrial plants, schools, apartment and office buildings or shopping centers; turbine exhaust gas supplies energy for heating, air conditioning, and steam generation. No external cooling system is required, which reduces weight and simplifies installation. Maintenance is also reduced since turbine and compressor assembly are the only moving parts in the engine. Turbine electric set can also be used for stand-by power in hospitals or office buildings. Caterpillar Tractor Co., Peoria, Ill.

On Readers' Service Card, Circle 100

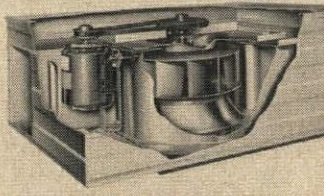


All-in-One Ceiling

An integrated modular ceiling system contains lighting, air-conditioning, heating, and ventilation services, and contains its own insulation, and acoustical control. "Alkconditioned Ceiling System" consists of

perforated metal lighting coffers with baked enamel finish. Horizontal and vertical surfaces of the coffer are insulated with a 1"-thick strip of sound-absorbing material. The ceiling is lighted with conventional fluorescent lamps and suspended diffusers. Two air-handling diffusers can be installed adjacent to the lamps in each coffer. A 32"-square panel in the center of the coffer provides access to conduits and ducts above. Coffers can be custom designed to meet specifications. Alkco Mfg. Co., 4224 N. Lincoln Ave., Chicago, Ill. 60618.

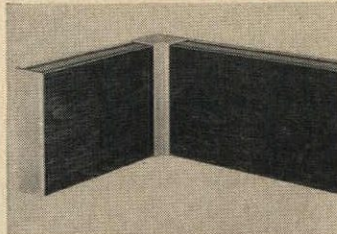
On Readers' Service Card, Circle 101



Roof Ventilator

Power-operated roof ventilator called "Lo-Set Power-X-Hauster," has a low, unobtrusive silhouette. Largest unit is only 39" high, and can deliver more than 32,000 cfm. Hinged wheel across door permits easy cleaning of the unit without disassembly. Lo-Sets units carry UL listing and Air Moving and Conditioning Association Certified Ratings Seal on performance. G.C. Breidert Co., P.O. Box 1190, San Francisco, Calif.

On Readers' Service Card, Circle 102



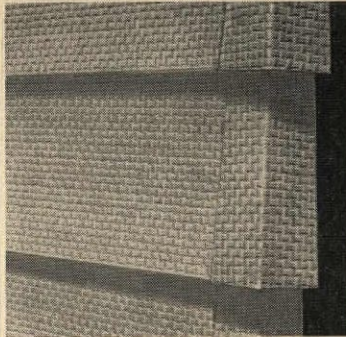
Slim-Fin Radiator

"Imperial" line of finned-tube radiators are available with flat or sloping top enclosures finished with a simulated wood or enamel surface. Enclosures snap on to channels mounted on the wall, and all front-exposed screws are eliminated. "Perma-Trim" mounting bracket is backed with a urethane foam seal that keeps dirt out and prevents wall soiling above the unit. Finned tube radiation is available in

lengths of 2' to 8' in 6" increments, and heights of 12", 18", and 24". Enclosures are 5 1/4" deep except the 12"-high slope top model, which is 4 1/4" deep. Modine Mfg. Co., Racine, Wis.

On Readers' Service Card, Circle 103

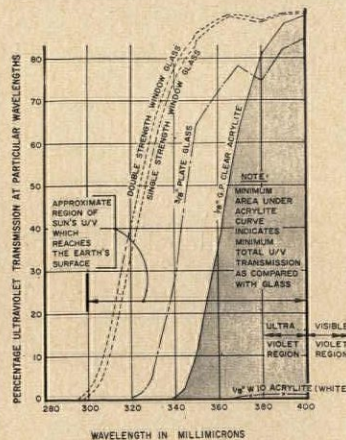
Construction



Textured Aluminum Siding

Aluminum siding panel, called "Innovation 8," has embossed pattern. This rustproof lap siding is finished with "Permlar," a nonchalking acrylic enamel paint for protection against severe weather. Horizontal panel is made in 12 1/2' lengths with an 8" surface exposure and 1/2" butt. Vertical panel is 10' long with 12" exposure. Available in white, gray, sandalwood, light green, pastel blue, and yellow. U.S. Aluminum Corp., 11440 W. Addison St., Franklin Park, Ill.

On Readers' Service Card, Circle 104



Plastic Panel Absorbs Ultraviolet Rays

Problems of fading or deterioration resulting from ultraviolet radiation can now be reduced or eliminated with "Acrylite" white translucent

cast acrylic sheet. An absorber, added when the sheet is cast, allows the sunlight to brighten areas below skydomes without permitting ultraviolet rays to affect the occupant and his furnishings. American Cyanamid Co., 595 North Ave., Wakefield, Mass. 01881.

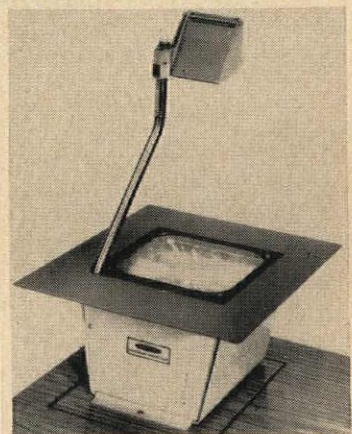
On Readers' Service Card, Circle 105

Translucent Insulated Panels

Translucent wall and roof panels that transmit light and provide good insulation are being used in school construction. Panels are composed of two sheets of glass fiber bonded to each side of an aluminum I-beam core. Reinforced glass fiber mat is placed in the core section to achieve high insulation values. The maker says the panels have a U-factor of 0.25, and variable light-transmission ranges from 28 to 50 per cent. Panels are made in widths up to 5' and lengths up to 27'. Kalwall Corp., 88 Pine St., Manchester, N.H.

On Readers' Service Card, Circle 106

Electrical Equipment

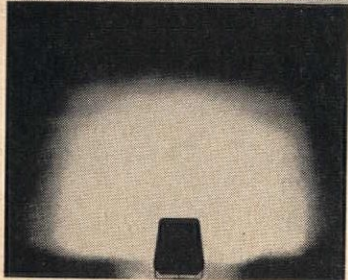


Projector/Desk

Desk table has a projector that throws image onto wall behind teacher's desk. Projector can be used flush with desk top, or

can be elevated 10" above surface. Desk also contains file and pencil drawers. Commercial Products Co., 40 Market N.W., Grand Rapids, Mich. 49502.

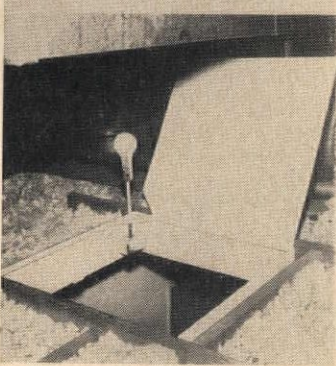
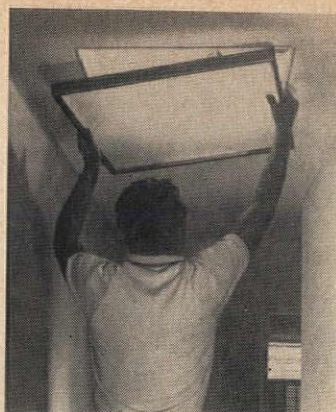
On Readers' Service Card, Circle 107



Lighting A Square

Reflector throws light downward onto a square area. Suitable for exterior illumination, "Profile" metallic-vapor floodlights can reduce installation costs 28 per cent, because they throw more of the light source onto the surface to be lighted, says the manufacturer. Since 85 to 100 per cent of the beam generated by the metallic vapor light source is reflected downward, fewer poles and fixtures are needed to accomplish the same lighting job, especially in large areas. One-piece reflector housing has a polished aluminum finish. Light sources are available in mercury lamps in 250-, 400-, and 1000-w; metallic vapor lamps in 400- or 1000-w. Loading tests show that Profile lights can withstand hurricane-wind velocities up to 100 mph. Crouse-Hinds Co., Syracuse, N.Y. 13201.

On Readers' Service Card, Circle 108



Hall/Attic Light

Ceiling panel doubles as hall light and trap-door to attic. "Lite-A-Way" fits ceiling opening leading to an attic. Inside the panel is an incandescent lamp and reflector unit that pivots upward to light the attic when the panel is removed for access. Translucent ceiling panel clips into frame; reflector panel hinges upward into the attic. Heavy gage metal trim around light panel is available in standard bronze finish, white enamel, or chrome. All other parts are finished in white baked enamel. Fixture is available in 20", 22", and 24" sq. Special sizes upon request. Modern-Aire Mfg. Corp., 7319 Lankershim Blvd., North Hollywood, Calif.

On Readers' Service Card, Circle 109

Fluorescent Starter

Recently developed fluorescent starter is recommended for high temperatures, excessive humidity, or line voltage variations. It automatically resets when the circuit is turned off and restarts its lamp when the circuit is turned on. The 40-w starter contains a circuit breaker that prevents false starts and blinking caused by worn-out lamps. General Electric, Wiring Device Dept., Providence, R.I.

On Readers' Service Card, Circle 110

Prefab Electrical Hospital Wall

Isolating distribution system in a single panel houses all electrical elements and provides a safe, one-stop checkpoint for electrical system performance in a hospital operating room. On-site installation costs are minimized by complete factory wiring and testing of the packaged unit. Panel is covered by a single warranty for performance, since there are no separate elements to wire or handle. Manufacturer guarantees that distribution panel operates at a sound level of no more than 35 db. Accidental contact with open terminals is impossible, due to a barrier between primary and secondary compartments. Crouse-Hinds Co., Syracuse, N.Y. 13201.

On Readers' Service Card, Circle 111

Finishes/Protectors



Nonsag Adhesive

"Bondmaster M754," a wet-shear-strength, nonsag epoxy mastic adhesive, is recommended by its maker for bonding expanded polystyrene, rigid urethane, glass foams, and ceramic tile to vertical and overhead surfaces. It will bond materials weighing up to 5 psf, with no slippage. Two-component compound cures at room-temperature. The 100 per cent reactive formulated epoxy adhesive can be applied with a trowel. Pittsburgh Plate Glass

Co., Adhesive Products Div., 225 Belleville Ave., Bloomfield, N.J.

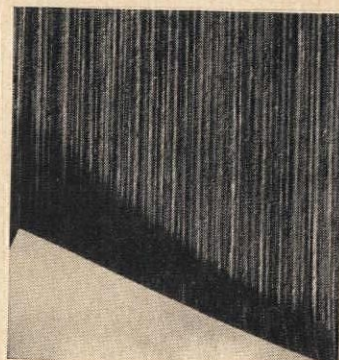
On Readers' Service Card, Circle 112

Epoxy Color Coating

"Epoxy-Coat," a two-component epoxy, has good adhesion to iron, steel, aluminum concrete, wood and ceramics. Manufacturer claims that coating does not shrink or pull away while curing and that it has good abrasion- and wear-resistance. Coating can be used on concrete floors, outdoor railings, steel sash, ventilators, steel pillars, and porcelain and ceramic tile floors or walls. Available in 13 colors. Devcon Corp., Danvers, Mass.

On Readers' Service Card, Circle 113

Furnishings



Two From Boris Kroll

A 100% Orlon, fade- and mildew-resistant fabric resembling sailcloth has been developed for outdoor upholstery. Called "Island Cloth," it comes in five solid colors coordinated with 11 designs printed on the same groundcloths. Wallpaper of nonwoven linen and viscose threads laminated side-by-side in striated colors has a novel textural effect (illustrated). Boris Kroll Fabrics, Inc., 979 Third Ave., New York 10022.

On Readers' Service Card, Circle 114

Synthetic Carpet Backing

This season, look for carpets backed with Polykor—a recently developed polypropylene and kraftcord yarn combination—in place of jute backing. It will be used for both tufted and woven floor-coverings by such manufacturers as Monarch, Barwick Mills, James Lees, and Cabin Crafts. New backing is said to resist heat, humidity,

and stretching, and is predicted not to raise carpet prices. Patchogue Plymouth Co., 295 Fifth Ave., New York, N.Y.
On Readers' Service Card, Circle 115



Textured Casements

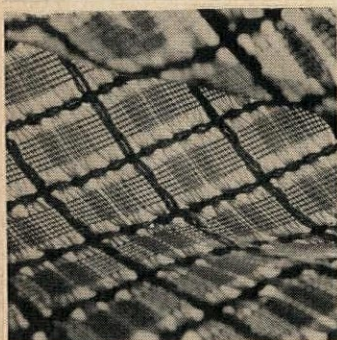
Fourteen loose-weave casement cloths comprise a line of architectural fabrics with a hand-crafted look. All are mixtures using Verel, Rovana, rayon, and flax; most patterns come in white, natural, or a combination of the two; all are 60" wide. Generous sample binder available from Menlo Textiles, 640 Roble Ave., Menlo Park, Calif.

On Readers' Service Card, Circle 116

Space-Saver

Space-saving device for desks is bookshelf "Caddy," which hangs in rear of knee space and rolls forward on track. It will fit single and double-pedestal desks. The Globe-Wernicke Co., Cincinnati, Ohio.

On Readers' Service Card, Circle 117

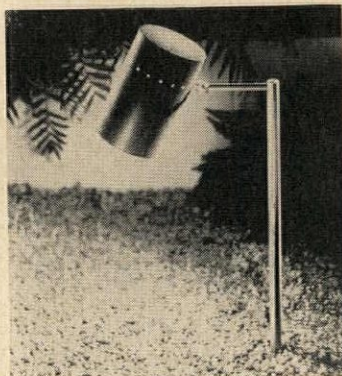
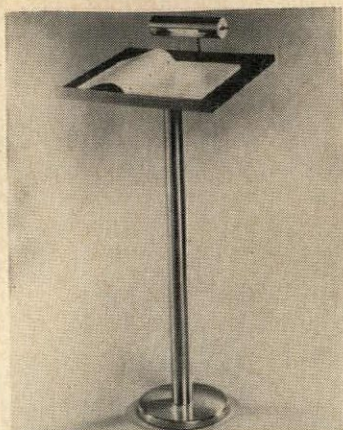


Hand-Crafted for Power

Among the "American Craftsman Collection," which is the result of Fiberglas Corporation's competition for American master weavers to create designs for power-loom production, two casement cloths by Judith Barrow are prominent. "Infalla" is a "spaced, inter-twined, super-looped bouclé" in seven colors; "Afghan"

(illustrated) is a leno weave of interest and has a good hand. Both fabrics are 45" wide and are 100% Fiberglas Beta yarn. Owens-Corning Fiberglas Corp., 717 Fifth Ave., New York, N.Y. 10022.

On Readers' Service Card, Circle 118



Lucid Lecterns and Garden Glow

Four floor- and table-model lecterns of simple, straight-forward design by Don Jane have brass bases and plastic walnut tops and are available with or without built-in swivel reading lamps, which have concealed wiring. Garden lights with crinkle-finish black swivel cylinders on brass columns are spiked into soil. Nessen Lamps Inc., 317 East 34th St., New York, N.Y.

On Readers' Service Card, Circle 119

More Danish Fabrics

L. F. Foght, Danish manufacturer of textiles, now has a U.S. outlet for 70 of its upholstery and casement fabrics. These include a stretch-nylon material, a 100% wool plaid, a cotton basketweave, and a wool tweed check pattern, a wool hop-sack, and a rayon-wool combination. Distributor also introduces a domestically woven, worsted—"Donegal"—which is available in 38 colors.

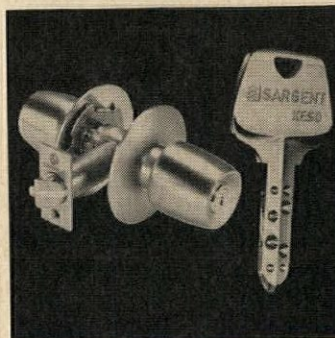
Isabel Scott Fabrics Corp., 979 Third Ave., New York, N.Y.
On Readers' Service Card, Circle 120

Spongeable Wall Felt

Washable wall-covering and upholstery fabric, "Nymarra," is feltlike in appearance yet is actually composed of nylon pile embedded in an expanded vinyl with a cotton backing. Stains are said to sponge off easily. Twelve stock colors are distinctively muted; 54" wide. Contract Dept., Comark Plastics Div., 1407 Broadway, New York, N.Y. 10018.

On Readers' Service Card, Circle 121

Special Equipment



Pick-Proof Lock

A new type of cylinder lock, claimed by the manufacturer to be highly pick-resistant, contains three rows of overlapping key pins. A conventional cylinder lock has one row of pins. Keys for the new locks are drilled with shallow depressions on the two flat sides and both edges. The pattern of depressions is symmetrical so that the key can be inserted with either edge uppermost. The "Sargent Maximum Security System" is available in standard, removable core or construction core cylinders. Sargent & Co., New Haven 9, Conn.

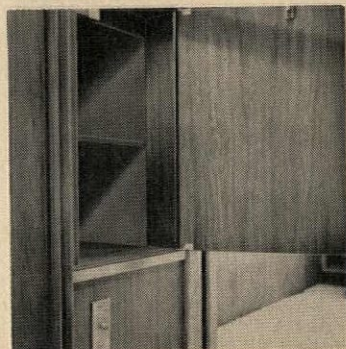
On Readers' Service Card, Circle 122

Sprinklers for Computer Installations

Automatic carbon dioxide fire-extinguishing system protects computers, electronic data-processing equipment, and tape storage rooms. System extinguishes fires by "total flooding," in which a charge of carbon dioxide makes the

atmosphere surrounding the hazard incapable of supporting combustion. A thermostat, normally set at 140 F and located at the hazard spot, detects the fire and releases the system. Because of its clean, rapid evaporation, carbon dioxide does not damage tapes or computer equipment. Walter Kidde & Co., Inc., 675 Main St., Belleville, N. J. 07109.

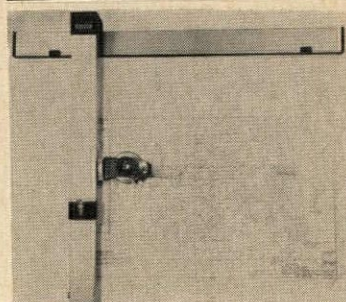
On Readers' Service Card, Circle 123



Three-Floor Lift

"Lift-Aid," an electrically-operated dumbwaiter, can serve three landings. Standard car size of 24" x 24" x 30" can handle up to 200 lb. Lift-Aid travels 25 fpm, fully loaded. D. A. Matot Inc., 1533 West Altgeld, Chicago, Ill. 60614.

On Readers' Service Card, Circle 124

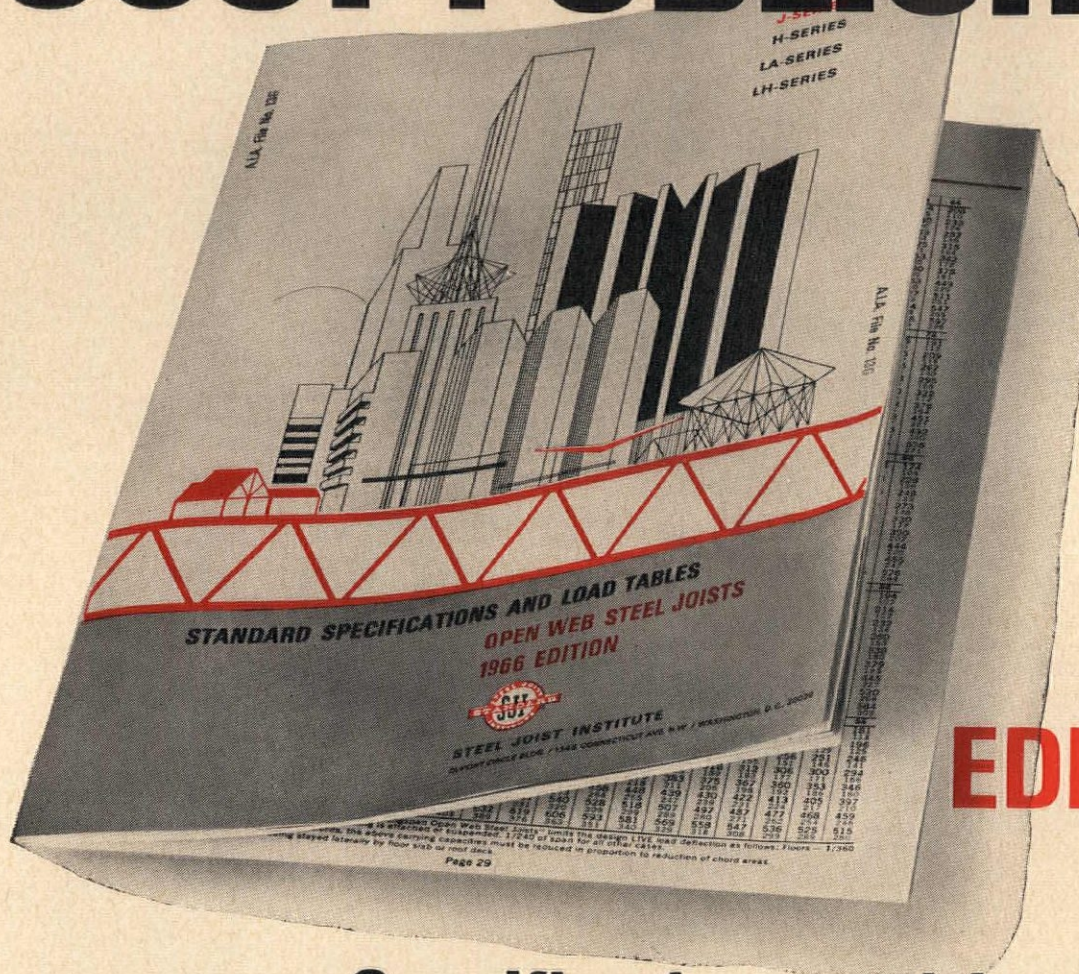


Drafting Machine

"Mutoh Trac-Drafter," a precision built track-type drafting machine, features a double-hinge design permitting drafter head to be raised vertically to the board when not required for use. Alternatively, the head and vertical track can be raised through 95° to clear the board. Equipment includes stainless aluminum alloy protractor, one-hand head control with automatic 15° protractor indexing and micro-adjuster for hairline baseline settings. Machine is available in four sizes to fit board sizes 37½" x 48" to 43½" x 72". Drew & Carr, Inc., 400 North Michigan Ave., Chicago, Ill.

On Readers' Service Card, Circle 125

JUST PUBLISHED!



1966 EDITION!

Specifications and Load Tables for High Strength Open Web Steel Joists

Here, from the Steel Joist Institute, are 32 pages of specifications, load tables and everything else you need for fast, accurate specification of joists to carry uniform loads on spans up to 96 feet. Covers the following joists: J-SERIES, joists made from 36,000 PSI minimum yield strength steel; LA-SERIES, long-span joists compatible with the J-Series; H-SERIES, high-strength joists made from 50,000 PSI minimum yield strength steel; LH-SERIES, longspan joists compatible with the H-Series. Send for your free copy of this valuable booklet.

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Please send me a complimentary copy of the 1966 Edition of Specifications and Load Tables.

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Address

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MANUFACTURERS' DATA

Wainscot Material Cost Study for Schools

A detailed report on the cost of building and maintaining wainscots in elementary school corridors reveals that glazed structural clay facing tile wainscot has a lower ultimate cost than ceramic wall tile.

The report is based on a survey conducted in 54 schools in Dallas County, Texas, by the Clay Products Association of the Southwest. The Columbus Laboratories of Battelle Memorial Institute assembled and presented the material for publication. The investigators took into account the following economic factors: time value of money, expected life of the building, anticipated price increase of labor and materials initial cost of the corridor walls, and frequency and cost of each maintenance task. Furthermore, actual on-site time studies were made on cleaning costs and initial wall costs for three wall thicknesses. 12 pages. Clay Products Association of the Southwest, P.O. Box 1726, Austin, Texas 78767. *On Readers' Service Card, Circle 200*

Acoustics

Acoustic Enclosures

"Understanding Acoustic Enclosure Systems" describes three types of enclosures used to measure and contain noise or to provide soundproof shelter: anechoic (echo-free), reverberant (live), and quiet (dead) rooms. Recommendations for selecting the best type of enclosure for a particular need and data on the acoustic characteristics to be considered in the design and construction of each system are included. 4 pages. Industrial Acoustics Co., Inc., 380 Southern Blvd., Bronx, N.Y. 10454. *On Readers' Service Card, Circle 201*

Air/Temperature

Terminal Controls for Hydronic Heating

Booklet describes coordinated terminal control systems and devices for hydronic-type air-conditioning installations. Booklet defines terminal controls; outlines their basic functions for providing air circu-

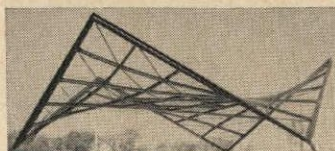
lation, temperature control, equipment operation, and adjustment to inside and outside conditions; and reviews the application of these devices to piping systems of various types. Schematic illustrations show typical control hook-ups ranging from the simplest arrangement to those incorporating the latest control design for two-, three-, or four-pipe air-conditioning systems. 20 pages. American-Standard Controls Division, 5900 Trumbull Ave., Detroit, Mich. 48208. *On Readers' Service Card, Circle 202*



Filtered Humidifier

Bulletin describes "Rite-Aire Humidifier," a completely automatic, fail-safe, evaporative-type unit. Unit provides controlled humidity by means of wash-filtered air. Humidifier can be installed in hydronic, warm-air, oil, gas, or electrical heating systems in residential, commercial, institutional, and public buildings. Bulletin gives complete specifications, installation, and temperature-humidity data. 2 pages. Atwater-General Corp., 200 North Water St., Watertown, Wis. 53094. *On Readers' Service Card, Circle 203*

Construction



Curved Grid Frames

First of a four-part study on curved, steel grid frame design is entitled "Development of the Concepts of Curvilinear Grid Frames" by Charles R. Hutton, an Associate Professor at Purdue University. A grid frame is a "particular arrangement of

continuous ribs running in two or more directions, which are interconnected at the joints so that the deflections of both ribs will be identical at that joint." Two basic grid types are discussed: orthogonal grid, which has ribs parallel to the boundary of the frame; and diagonal grid, which has ribs placed diagonally to the boundary. Curved grids reduce bending stress values within the frame as much as possible and translate these stresses into direct stresses, either in tension or in compression. Booklet illustrates types, principles, and details of curvilinear grid frames. 50 pages. Inland Steel Company, Market Development Div., 30 West Monroe St., Chicago, Ill., 60603. *On Readers' Service Card, Circle 204*

Laminated Redwood Timber

Pamphlet presents standard specifications for structural glued laminated California redwood timber. Specifications are divided into five sections: definitions of the types of laminated grades, design stresses, radius of curvature, standard sizes, and adhesives. Charts, details, and photos in addition to a list of references are included. 6 pages. California Redwood Assn., 617 Montgomery St., San Francisco, Calif. 94111. *On Readers' Service Card, Circle 205*

Durable Concrete Specs

Chart summarizes recommended practices for specifying durable concrete. Paragraphs on air content, concrete strength, water content, aggregates, placing, finishing, and curing. Bulletin RM-154. Master Builders Co., Div. of Martin Marietta, Cleveland, Ohio. 44118. *On Readers' Service Card, Circle 206*

Wood Veneers

Pamphlet illustrates types of veneer cuts, methods of matching, glossary of terms, and gives brief specifications check list. Among veneers available from this manufacturer are walnut, oak, maple, cherry, and others from the United States; teak from the Far East; and Rosewood from South

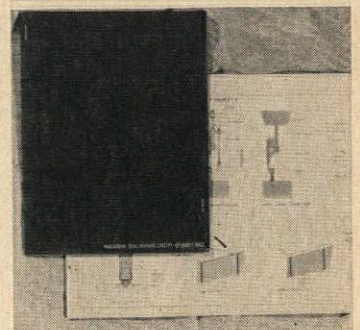
America. Hardwood plywood laminated panels range up to 30' long and up to 5' wide. Panels are available with a lumber, plywood, particle board, or mineral core. 12 pages. Wood-Mosaic Corp., P.O. Box 21066, Louisville, 21, Ky. *On Readers' Service Card, Circle 207*



Expanded Metal

Book illustrates patterns of expanded metal gratings and mesh. Tables list dimensions and weights of steel, stainless steel, and aluminum mesh. 24 pages. Alabama Metal Industries Corp., P.O. Box 3928, Birmingham, Ala. 35208. *On Readers' Service Card, Circle 208*

Doors/Windows



Movable Walls

Brochure describes sliding acoustical barrier that provides fixed-wall sound control. Photos and illustrations of typical installations, technical data, specifications, and detailed drawings are included. E.F. Hauserman Co., 5413 Grant Ave., Cleveland, Ohio. *On Readers' Service Card, Circle 209*

Doors, Doors, Doors!

Brochure illustrates wide range of "Weldwood" doors with interior and exterior faces for fire-barriers, sound and radiation control, static-shielding, and other applications. The



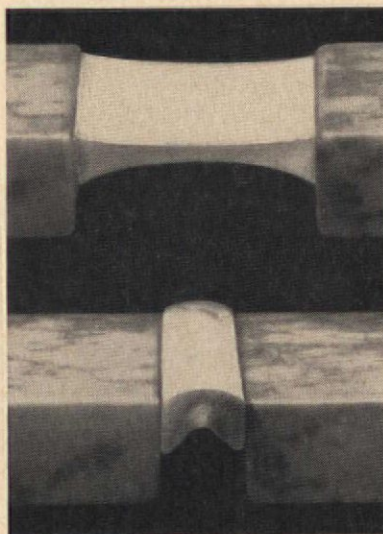
Alcoa Plaza Associates, Owner; Harrison & Abramovitz, Architects; Turner Construction Co. & HRH Construction Corp., General Contractors; General Bronze Corp., Curtain Wall Fabricator; Abbott Glass Company, Glazing Contractor.

9 tons of G-E Silicone Construction Sealant seal new UN Plaza

G-E Silicone Construction Sealant is an amazing synthetic rubber that cures in air. It's waterproof. It won't crumble, harden or peel. So it's the first really *permanent* sealing compound.

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G-E Silicone Construction Sealant applies quickly and smoothly from a



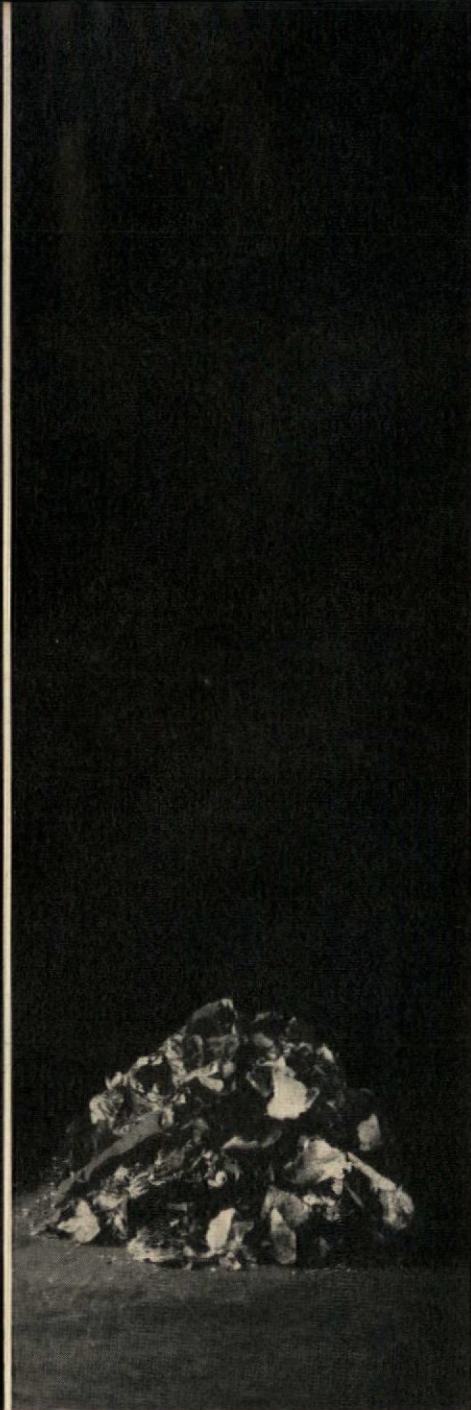
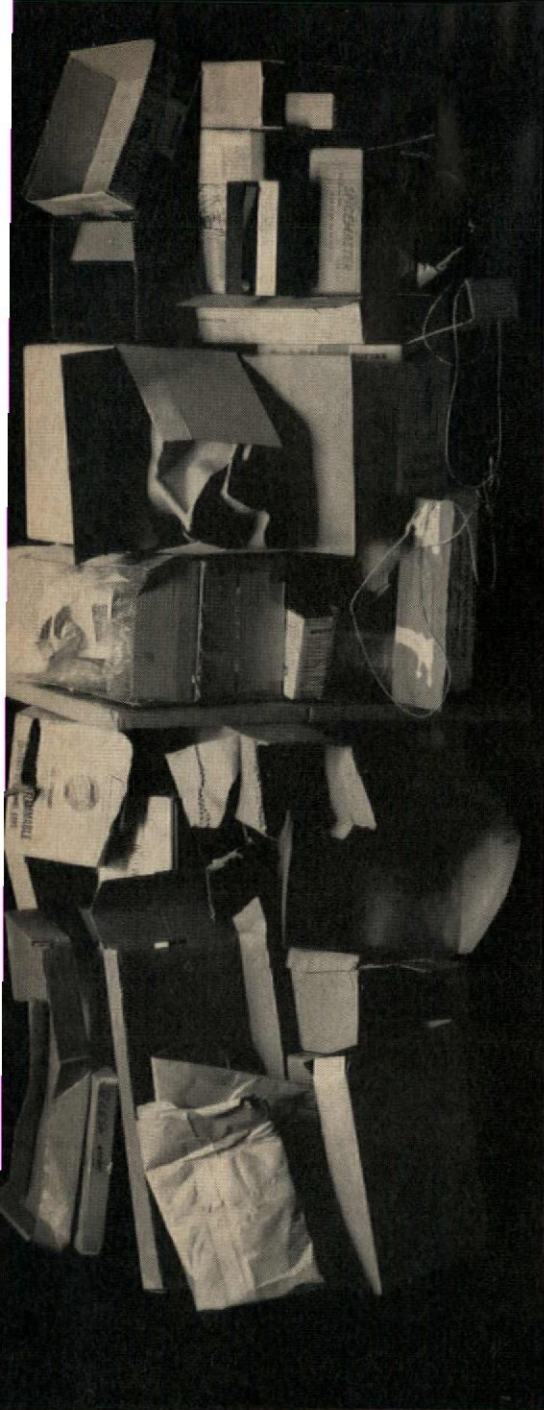
Joints expand and contract 10,950 times in 30 years . . . and so will G-E Silicone Construction Sealant.

standard caulking gun, forming a tight bond to glass, metal, masonry and other common building materials. No mixing either. And it can be applied easily in any weather . . . never stiffens in cold or runs because of heat. Cleanup is a cinch. So you save time while you get a good looking, permanent seal that minimizes callbacks.

Available in a wide range of colors, as well as a translucent form, G-E Silicone Construction Sealant blends in well with almost any material. It's stocked by local distributors and in many building supply stores. For complete information, including a new bulletin on guide specifications for Silicone Construction Sealant, check the distributor nearest you, or write to Section Q12160R, Silicone Products Dept., General Electric Company, Waterford, New York.

GENERAL  ELECTRIC

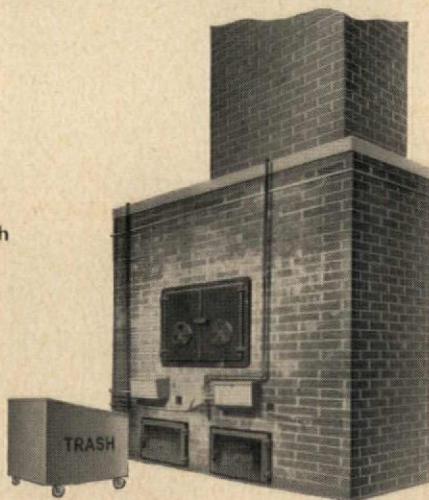
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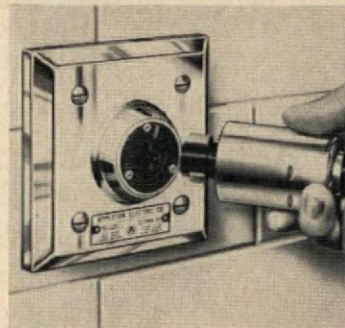
Donley

brochure describes the advantages of each of four basic types of door construction, shows cut-away drawings of doors, and lists suggested specifications. Similarly, the brochure deals with six types of special-purpose doors. Chart of comparative data on Underwriters' Laboratories approvals on all types of doors is included. 20 pages. U.S. Plywood, 777 Third Ave., New York, N.Y. On Readers' Service Card, Circle 210

Seamless/Flush Doors

Folder presents hardware and glazing details of "Series 1100" seamless and full-flush 1 3/4"-thick doors made in a choice of 29 designs in 16-, 18-, or 20-gage cold-rolled steel. Amweld Building Products, 100 Plant St., Niles, Ohio. 44446. On Readers' Service Card, Circle 211

Electrical Equipment



Fire-Safety in Hospitals

Booklet presents electrical hospital equipment designed to offer protection against fire and explosion hazards. Equipment includes sealed safety receptacles, feed-in plugs, vented clocks, pilot lights, and explosion-proof X-ray film illuminators. Each product is explained with photos and charts. 12 pages. Appleton Electric Co., 1701 Wellington Ave., Chicago, Ill. 60657. On Readers' Service Card, Circle 212

	A. SURFACE AND PENDANT FIXTURES	B. RECESSED FIXTURES	C. WALL LIGHTING
Model	Minimum Size of Room	Minimum Room Size	Minimum Room Size
VERY SMALL (100 sq. ft. to 150 sq. ft.)	12' x 12'	12' x 12'	12' x 12'
SMALL (150 sq. ft. to 200 sq. ft.)	12' x 12'	12' x 12'	12' x 12'
MEDIUM (200 sq. ft. to 300 sq. ft.)	12' x 12'	12' x 12'	12' x 12'
LARGE (300 sq. ft. to 400 sq. ft.)	12' x 12'	12' x 12'	12' x 12'

Notes: Room size listed is usually needed as a guide and is not to be taken as a rule. Fixing and fixture should provide permanent lighting at 100 ft. candles. For best effective design, consult electric lighting before distribution, or manufacturer's booklet.

Residential Lighting Fixture Guide

Pamphlet recommends minimum and advanced lighting standards for houses and apartments. Recommendations are given, room by room, for in-

◀ On Readers' Service Card, circle No. 343



The "6300"

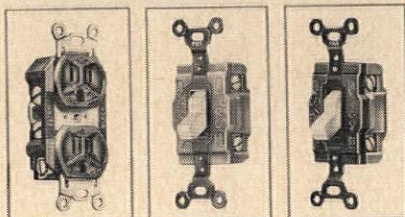
...newest of the P&S super devices

This is the new super "6300" by Pass & Seymour. Made without compromise... for the job where only the best will do.

The body and top are molded of high impact Melamine. All contacts are reinforced by plated spring steel clips... and each contact is individually recessed. May be side or back wired—with up to No. 10 wire. Assembly screws are threaded into the metal strap, not the plastic body.

The "6300" is for installations facing years of rough usage. It looks different because it is a truly different heavy duty outlet.

MORE SUPER DEVICES FOR HEAVY DUTY SERVICE



6200 3-Wire Grounding Outlet Companion to the "6300" with 15 amp. rated Capacity.

1001-I and 1021-I Switches Heavy duty, shallow body switches for installations requiring continuous, dependable service. 15 amp. switches are color coded blue; 20 amp., red.

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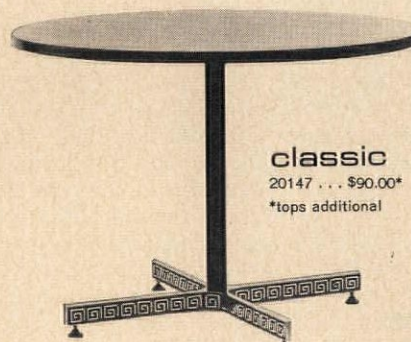
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Special Decor... or Custom Design

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North Chicago, Illinois

candescent bulb and fluorescent tube sizes. Also, pamphlet advises on portable lamps and decorative lighting. 4 pages. American Home Lighting Institute, 360 North Michigan Ave., Chicago, Ill. 60601.
On Readers' Service Card, Circle 213

Cellular Ceilings

Brochure illustrates various types of "Electralume" illuminated ceilings. Charts indicate sizes and transmission characteristics of lightweight vinyl ceiling panels. 8 pages. Wilson Research Corp., 2001 Peninsula Drive, Erie, Pa.
On Readers' Service Card, Circle 214

Furnishings

College Collection

Brunswick's new "C/U Series" of durable furniture and equipment is illustrated in a 24-page catalog. Of interest are "Mod-wall" chalkboard / display / storage systems that change blank classroom or faculty office walls into "working walls" with interchangeable, height-adjustable chalkboards, tackboards, pegboards, book

shelves, etc. School Equipment Div., Brunswick Corp., 2605 E. Kilgore Rd., Kalamazoo, Mich.

On Readers' Service Card, Circle 215



Robert John Catalogue

Squared-off, wood-framed desks, cabinets, and chairs intended for office use are new additions to an extensive collection of executive furniture. Called "The Penwood Group," these moderately priced pieces are finished in walnut, teak, or laminates. They are illustrated in a three-page color brochure, which is "Part 4" of a comprehensive loose-leaf binder of the manufacturer's seven furniture groups. Fabric binder with 148 swatches of well-chosen tweeds, leathers, and nauga-

hydes—not exclusively the manufacturer's—is included; any fabrics may be ordered exclusive of the furniture. Robert John Company, 821 N. Second St., Philadelphia, Pa.
On Readers' Service Card, Circle 216

Doorware

Drawings of a variety of showy door handles (twisted, round-flat, spherical, and rectangular), hand-finished in a variety of standard materials (wood, brass, bronze, and chrome), are presented in seven-page loose-leaf brochure. Diagrams giving specifications and installation techniques (through-bolted, semiconcealed set screws, and back-to-back, semiconcealed screws) are included for each. Russwin, Division of Emhart Corp., New Britain, Conn.

On Readers' Service Card, Circle 217

Controlling Solar Heat with Drapery

Booklet reports on the effects of solar heat on drapery fabrics. The test results enable designers to apply coefficients

to fabrics in order to evaluate drapery performance, and estimate solar heat gains through drapery-shaded windows. Booklet also contains samples of the firm's fabrics (primarily glass or Rovana-Verel) with their shading coefficients, and hardware drawings and specifications for various drapery operations. Fabrics used in several well-known installations are also shown. For available copies, write on letterhead to Fenestra Fabrics, Inc., 9348 Santa Monica Blvd., Beverly Hills, Calif. 90210

On Readers' Service Card, Circle 218

Lehigh Furniture

"Lehigh Product Illustrations 1965" catalogue presents the known line of furniture, which includes seating, tables, depositor's desks, executive and secretarial desks, cabinets, and accessories (including planters, wastebaskets, and revolving closets). Strangely, no designers are credited. Individual pages of this handsome catalog are available for paste-ups and presentations. 127 pages. Lehigh Furniture Corp., 16 E. 53 St., New York, N.Y.

On Readers' Service Card, Circle 219

REINHOLD books

DESIGN WITH GLASS

Materials In Modern Architecture: Volume I

By John Peter

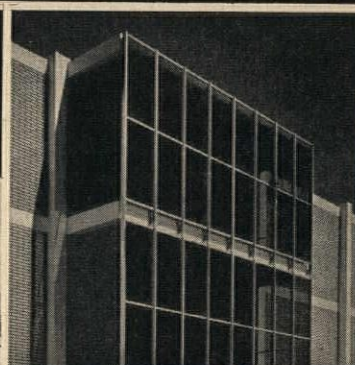
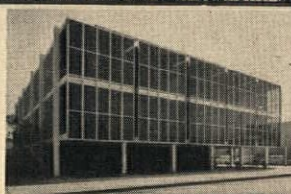
John Peter Associates, New York City

1965 160 pages \$12.00

Design with Glass inaugurates Reinhold's "Materials in Modern Architecture" Series. The books in this series are planned specifically to demonstrate the design potentials of wood, steel, concrete, glass, plastics, and clay products in modern architecture. The aim of each volume is to give insight into the materials that lie behind the surface design. The series will provide in photographic reproduction the imaginative and inspirational uses of materials by the great modern masters from all over the world. In Volume One the author surveys the historical background as well as modern developments in the use of glass. An Introduction by Professor Albert G. H. Dietz of M.I.T., one of the nation's most widely-recognized experts in construction materials and their specifications, provides an authoritative technical briefing on the function of glass in architecture. The book contains 141 illustrations, including 72 half-tones, 69 architectural drawings.

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ANY SIZE

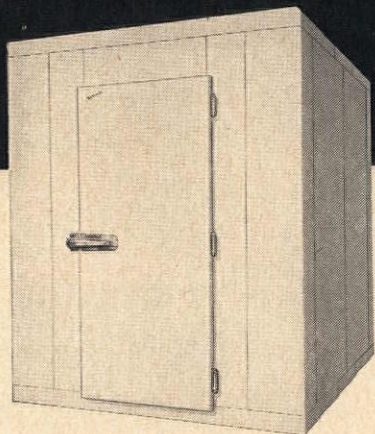
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per sq. ft.
—reduces
freight costs



Any size . . . to fit any space . . . describes Norris walk-in coolers, freezers, and cooler-freezer combinations, for Norris walk-ins give you complete installation flexibility. Available with or without floors, Norris walk-ins are pre-fabricated in two- and three-foot wall sections, four-foot door sections (7½' high), and can be set up in one-foot increments in any size—in almost any space—in new or existing buildings. A light hammer is the only tool necessary.

The modular panels of Norris walk-ins are all-metal, with no wood to absorb moisture, and extremely lightweight. Standard exteriors are bonderized steel finished in white baked enamel, interiors are 22-gauge metal, with custom exteriors or interiors optional at extra cost. Ideal for every industrial, commercial or institutional refrigeration need, Norris walk-ins can be supplied with the correct self-contained or remote refrigeration equipment to meet any application.

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Norris

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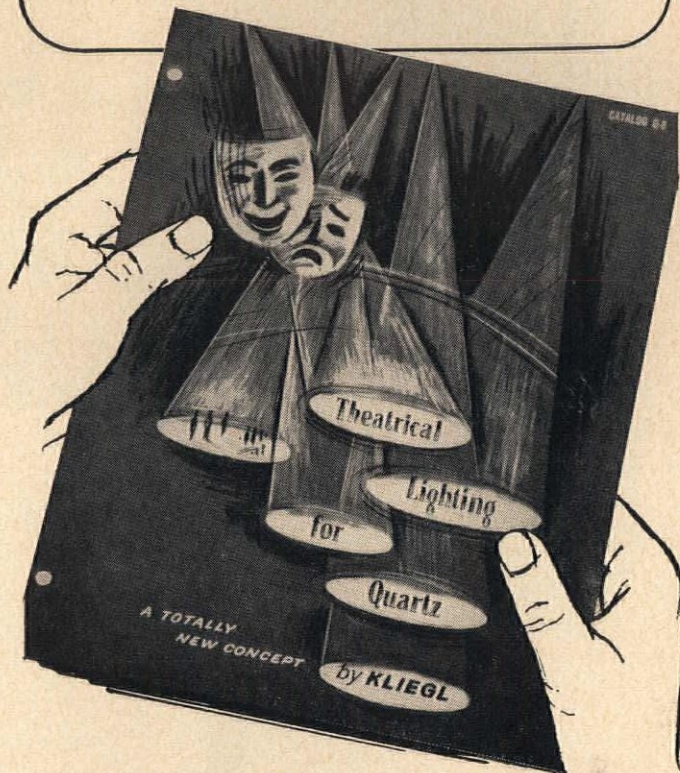
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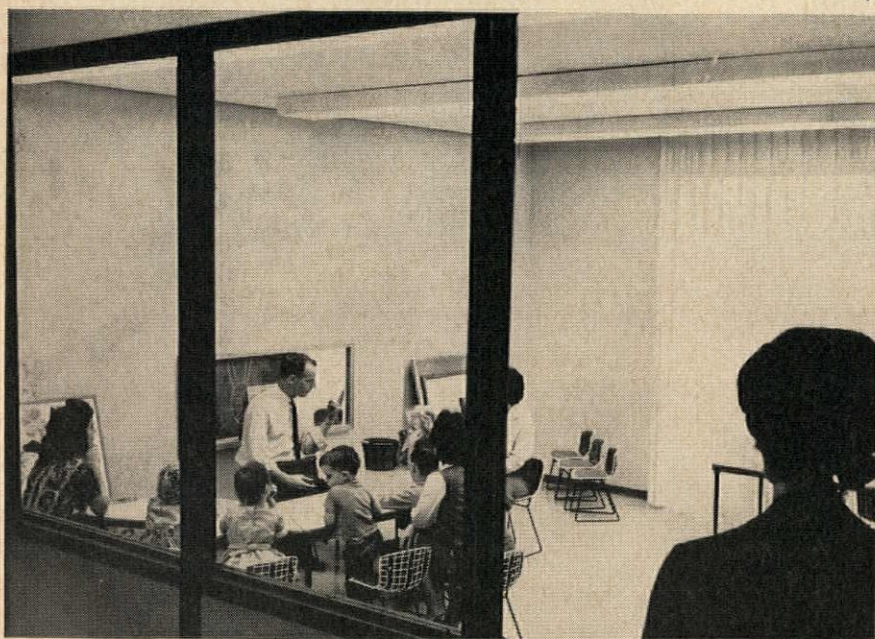
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It's a Mirror.. (from the brighter side)



It's a Window.. (from the dimmer side)



Mirropane is used for a mirror by lip-reading class (top) and as a "see-thru" observation window by observers at Memphis Speech & Hearing Center, Memphis, Tenn. Architects: Mann & Harrover, Memphis.

It's Mirropane®.. (the "see-thru" mirror)

Mirropane lets you observe without being seen. It's now available in *Parallel-O-Grey®* plate glass to work satisfactorily with only a 2-to-1 difference in illumination. For more facts, phone your L·O·F distributor or dealer, listed under "Glass" in the Yellow Pages, or write

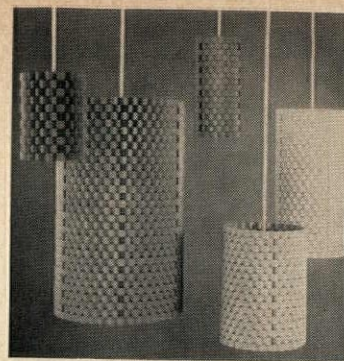


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A DIVISION OF LIBBEY-OWENS-FORD GLASS COMPANY
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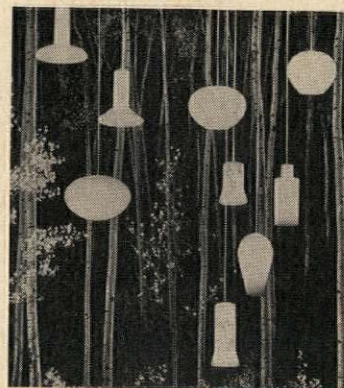
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Woven Metal for Lights

Interwoven metal strips produce the textural variation and geometric pattern of "Sculpture Lites," a group of fixtures illustrated on the last two pages of a 10-page color brochure. Grid pattern is adapted to pendants (two styles, five standard sizes), downlight drums, brackets, and bullets. Custom sizes are also available. A choice of baked enamel finishes and optional, colored-acrylic inserts is offered. Fredrick Ramond Inc., 3762 Beverly Blvd., Los Angeles 4, Calif.

On Readers' Service Card, Circle 220



New Line of Pendant Lights

A variety of pure-white, hand-blown glass, pendant lights—designed by Robert Salem—illustrate two-page brochure. Salem lights, 745 Stevenson St., San Francisco, Calif.

On Readers' Service Card, Circle 221

Norman Cherner Collection

Designs by Norman Cherner for residential and business interiors are illustrated in 52-page b/w brochure. Collection includes lounge seating (chairs, sofas, ottomans, and benches), stools, tables (coffee, nesting,

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HOMASOTE "EASY-PLY" ROOF DECKINGS



Residence: Darien, Conn.
Architect: Harry M. Buckingham, A.I.A.
Contractor: Andrew W. Kish

MORE SPAN — structural and insulating panels for spacings up to 60" o.c. on steel or wood rafters — for clean, uncluttered ceilings with more exciting dimensions and design latitude.

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MORE FINISHES — Ceiling side of panels is available in white kraft (with vapor barrier) or color-coated white, beige or other latex paints to order. Also, finish can be white or wood-grain vinyl, fire-retardant paints or white polyethylene film.

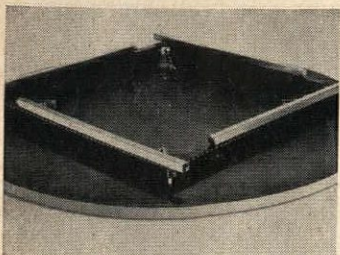
MORE DETAILS? For technical bulletins describing application of Homasote Decking on conventional roofs, on metal-frame, A-frame and in bonded built-up roofing, write Dept M-10

homasote *Company*

Trenton, N. J. 08603

end, dining, game, and conference), executive desks, cabinets, bars, and headboards. All specifications are in a separate price booklet, which also covers the manufacturer's "Designer Collection." Robert Benjamin Inc., 306 E. 61 St., New York, N.Y.

On Readers' Service Card, Circle 222



Weinberg Catalogue

Among fairly standard designs in a 52-page catalogue of primarily metal-framed furniture are some that are sturdy and serviceable, e.g. folding tables, all 29" high, which are available in five shapes with walnut, teak, or plastic laminate tops, and legs of 1" square steel tubing. There is also a neat, chrome-legged, tablet-arm chair

with wood seat and back, which can be upholstered. Catalogue includes specifications; separate price list. The Weinberg Corporation, 145 W. Columbia Ave., Philadelphia, Pa.

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Latest Lunning Price List

Line drawings of some 170 Scandinavian furniture items—chairs, stools, tables, cabinets, desks, tea carts—illustrate the latest price list from Frederik Lunning, 667 Fifth Ave., New York, N.Y.

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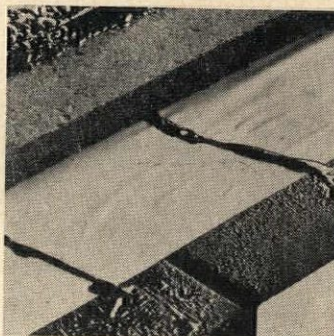
Insulation

Thermal Insulation for Electric Heating Systems

Booklet entitled "Insulation and Electric Heating" describes four insulation systems. Tables using the All-Weather Comfort Standard endorsed by the Electric Heating Association, show maximum heat loss

limits for electric heating and also thermal performance values. Diagrams and technical data are given for proper ventilation, vapor barriers, glazing, and weatherstripping. 12 pages. Johns-Manville, 22 East 40 St., New York, N.Y. 10016.

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Three-Part Roof Insulation


Booklet describes "Permapak" Class 1 vapor control and insulation system for high humidity occupancies (wherever winter temperatures fall below 45 F). Permapak is composed of "Permalite" cold adhesive and "Permalite Sealskin" noncom-

bustible insulation board. Adhesive is nontoxic and low volatile. Vapor barrier is a flexible film of aluminum PVC, reflective on both sides and .004" thick. It resists punctures, tears, and abrasion. Insulation board is a rigid mineral roof board of flame-expanded, hermetically sealed beads of volcanic glass. It is vermin-, rodent-, and mildew-resistant. Booklet includes heat-transmission values, uses, and physical data of the three components plus photos. Great Lakes Carbon Corp., Building Products Dept., 333 N. Michigan Ave., Chicago, Ill. 60601.

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PROGRESSIVE ARCHITECTURE NEWS REPORT

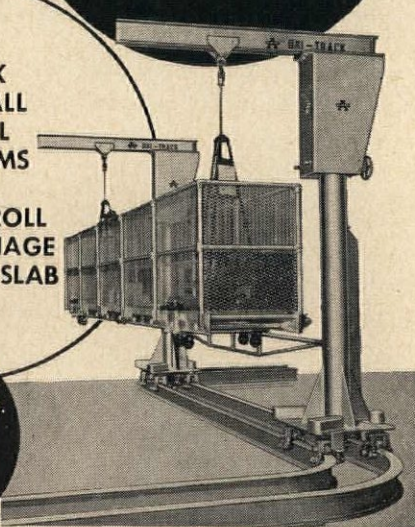
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