Pavilion theater designed for Ford Foundation study by Edward D. Stone and Eldon Elder has movable roof for bad weather.
December 1961

PROGRESSIVE ARCHITECTURE NEWS REPORT

Architects: Perkins and Will, Chicago
General Contractor: A. L. Jackson Co., Chicago

Mutual Trust's new home office... sound planned with...

Bright facade in the Windy City is this new home office of the Mutual Trust Life Insurance Company. First to introduce colored porcelain-enameled steel curtain walls to downtown Chicago, it marked another first with Autotronic elevators—supervised with an electronic brain. An advanced, draft-free air conditioning system was also installed in this remarkable new building.

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THE IDEAL THEATER: EIGHT CONCEPTS

NEW YORK, N.Y. In 1959, the Ford Foundation announced a program "intended to assist architects and theater designers in carrying to the design and model phase their ideas for new theaters, including the stage and all technical facilities enhancing its adaptability to the theatrical medium." Under the program, a number of teams of architects and theater designers were to undertake design and technical research in order to produce plans for "the ideal theater." The teams chosen, as announced in early 1960, were: Paul Rudolph and Ralph Alswang, Edward L. Barnes and Jo Mielziner, Frederick Kiesler (alone), Peter Blake and David Hays, Edward D. Stone and Eldon Elder, Barrie Greenbie and Elizabeth Harris, Paul Schweikher and George Isenour, and Ben Schlanger and Donald Oenslager. The study by the last-named team, not shown here, was to determine the maximum number of useful and desirable viewing positions that can be included in a proscenium and a non-proscenium type theater. Several of these studies will be presented more fully in the FEBRUARY 1962 P/A. Next month, the Museum of Contemporary Crafts in New York will house an exhibition of the theater designs; an illustrated catalog will be available. The exhibition is sponsored by the American Federation of Arts.

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Paul Rudolph and Ralph Alswang designed a theater that makes possible combining various film-projection techniques with live action. The screens have been conceived as continuous surfaces within the theater in that they meld unnoticeably with the performing areas (where they function as projection surfaces or stage lighting) and with the audience area (where they contribute auditorium lighting). Film can be projected from any source—walls, floors, ceilings—to provide, together with the live actors, an exciting, constantly changing spectacle. Sight-lines and wall surfaces have been so arranged that attention is always where it should be; on the performance. According to the designers, "the external form of the building has been determined strictly by the requirements of the individual functions within. The various functional elements [including six projection booths for rear as well as front projection] reveal themselves on the exterior, for the concrete structure is conceived as a poured-in-place continuous concrete entity." Intimacy of spectators and stage is obtained by dividing the orchestra into a number of sections and the balcony into three sections.

Edward L. Barnes and Jo Mielziner took as their problem the design of a theater for intimate music-drama (as opposed to grand opera, musical comedy, or operetta). The basic concept of their 1000-seat lyric theater is an acoustical canopy of walnut that holds the auditorium and the forestage in a sculptured sound-control envelope. The walnut was chosen for the bright resonance it affords, which is appropriate to a theater of this type. After passing through the high-ceiling lobby, the audience mounts a ramp to enter the auditorium half-way up the angle of seats in the center of the hall. The exterior form of the theater—conceived as two main masses that are truncated, tipped cones representing the stage house and the auditorium housing—reflects the interior by suggesting the lifting heights required for scenery, the cone shape of sight-lines, and the sweep of the stage. Walls consist of sloping columns with a precast concrete skin. Roofs are supported on light steel trusses.
Frederick Kiesler designed for the study a theater-skyscraper complex, "The Universal" (model photos show theater exterior and cutaway interior). The main theater has a capacity of 1600; next to its stage is the foyer of a smaller, 600-capacity theater which, at the same time, can be used as the main lobby of the adjacent 30-story building. The high-rise building would contain a variety of small theaters, TV studios, radio stations, offices for publishers, record companies, and motion-picture producers, as well as seven floors of industrial or art exhibition space. The theater, structure of which is adapted in form from Kiesler's 1953 Endless Theater, has a ceiling which flows out from the proscenium arch to hood the audience like a shell. The designer states that "the Universal is an endless theater as far as vision and sound are concerned." Facilities and vertical transportation are carried in three major "communication towers" in the auditorium; one at left, one at right, and one in the rear. Kiesler has eliminated the traditional gridiron from which scenery is flown in favor of what he is certain will become the scene-showing methods of the future: projection, for instance. By mechanically rotating two sections of seats at the front of the auditorium, the stage can be provided with a projecting apron.

The Peter Blake and David Hays project is a flexible, small urban theater. Central concept is a system of related half-levels in the performing-audience areas. These levels, which differ in height by 6 ft, are all open to the entire area, and may be used for seating, acting, as lighting or projection galleries, or for several of these uses simultaneously. They may be bridged by movable stairs, opened to one another or sealed off, or given different heights by use of intermediate partitions. It is therefore possible, within this simple space, to approximate any form, from a theater-in-the-round to a proscenium production; to produce galleries as well as orchestra pits; and even to make the space a motion-picture theater or TV studio. For additional sources of income in a low-yield theater of this kind (maximum seating is 299), a restaurant-bar is provided that may be entered both from the lobby and from the street.
Edward D. Stone and Eldon Elder chose as their problem an open-air theater to meet the growing need for popular informal theater throughout the country. The 2000-seat "pavilion in a park" has steeply pitched arena seating designed to focus the audience's attention on the stage, the apron of which projects into the audience area and is surrounded by it on three sides. Audiences enter the theater from the ambulatory, which rings the public area at the top of the auditorium. Horizontal aisles are thus omitted, and the audience has a feeling of "converging" on the stage. In addition to the forestage, there is an inner, two-level stage, with two entrances separating the forestage from the inner stage. Two lifts increase the flexibility of staging possibilities, and several rows of front seats may be lowered to create an orchestra pit. The roof of the theater is composed of a fixed concrete canopy, 50 ft wide, around the circumference of the building, to which are attached six movable sections that may be opened or closed, depending on the weather.

Barrie Greenbie and Elizabeth Harris, in designing a theater for the dance, employed an open stage and seated the audience in galleries overlooking the action on three sides. The stage is octagonal, with ramps leading from the basement to all eight sides. The three ramps closest to the viewers lead up from under the audience seating. A cyclorama is at the rear of the stage; unlike the conventional, curved form, it is set in three planes, which recall the angularity of the plan. The front ramps can be lowered to provide an orchestra pit, but permanent space for musicians has been provided above the top balcony. The musicians sit on a open-floor grating masked by "an acoustically-transparent ceiling baffle." Above them, an acoustical shell will reflect sound downward into the auditorium from a point equidistant from both dancers and audience. The conductor watches the dancers on a small TV screen. The theater has an open-air roof garden that may be used for refreshments or dining.

Paul Schweikher and George C. Izenour have the only design based on a specific client and site: the drama school complex for Carnegie Institute of Technology. For this program, Izenour developed a three-dimensional modular design for a flexible, mechanical theater. Schweikher modestly describes his contribution as "[housing] the mechanical and electrical systems proposed by George Izenour in a plain, direct way." Actually, his design has a vigor and dignity that will add even more to the luster of a famous drama school. The project is in five main elements: the main theater, the workshop, the studio theater, the experimental theater, and the classroom-faculty unit. The main and studio theaters, workshop, and classroom-faculty building surround an open court, and the experimental theater is underground. The main theater is convertible from arena to apron and to proscenium productions.
CORBU'S FIRST U.S. BUILDING: HARVARD'S VISUAL ARTS CENTER

CAMBRIDGE, MASS. When Le Corbusier visited these shores last spring, he brought along plans of his first U.S. commission, the Visual Arts Center for Harvard University (p. 71, JUNE, 1961 P/A). The project has now been released, showing a design replete with such characteristic Corbu design elements as the ramp, sun-control baffles, roof terraces, concrete construction, and emphasis on flexible space.

The six-level (including basement) building will house space for work in two- and three-dimensional art, plus work in "light and communication," i.e., sound, motion pictures, photography, etc.

The basement will contain the workshop for light and communications students, together with studios and a lofty lecture hall seating 180.

Main entrance will be on the first level above ground, and the two-dimensional and three-dimensional workshops and studios will be on the second and third levels.

The third level will contain a pedestrian ramp that will penetrate the building to connect Quincy Street to Prescott Street. Pedestrians thus will
pass through a planted terrace at the virtual horizontal and vertical center of the Visual Arts Center.

The fourth floor will contain space designed to provide a maximum of flexibility for seminars, exhibitions, and experimental projects.

The fifth—penthouse—level will contain the quarters of the director of the Center, studios for visiting artists, and a planted garden.

The entire building will provide about 50,000 sq ft for studies in the visual arts. Interiors will be characterized mainly by the use of movable partitions or cabinets for versatile arrangement of spaces. Exterior walls will feature deep concrete sun baffles that change according to the direction of the façade and that control natural daylighting in the interiors. Due to careful planning for cross-ventilation, it is hoped that air conditioning will be necessary only in the basement areas.

Commenting on his own early experiences and what he intends to do for Harvard, Le Corbusier emphasized the "indispensable, practical and beneficent relations between the hand and the head. The rupture of this collaboration...brought about by mechanism and bureaucracy, has fomented little by little a monstrous society which would be on the decline if no reaction interfered.

"Harvard University's initiative has therefore found in Le Corbusier a ground which is naturally favorable to the implantation of the ideas that constitute the present programme of this University."
Architects Propose Plan to Aerate New York

NEW YORK, N.Y. The New York chapter of AIA, using plans by the firm of Pomerance & Breines, has proposed the creation of a long pedestrian mall in midcity, reaching from Bryant Park (42nd St.) to Central Park (59th St.) between Fifth Avenue and Avenue of the Americas. Support for the plan has been received from the Citizens' Housing and Planning Council, the Citizens' Union, and the Municipal Art Society. James Felt, chairman of the City Planning Commission, stated that the plan is "imaginative and deserves serious consideration and thorough study."

Basiclly the plan would create, through condemnation of low-grade business sites in the center of the extra-long block between the two avenues, a lengthy pedestrian walkway that would be lined with new shops, stores, cafés, etc. Thus an entire new business frontage would be created on what is now rather undesirable property. A state law now on the books would permit such proceedings. The promenade could be developed piecemeal, as property becomes available; it would not need to follow a direct course, but could follow a meandering route.

SINGLE SAARINEN STRUCTURE HOUSES THEATER, LIBRARY, MUSEUM

NEW YORK, N.Y. An example of an architect and scenic designer collaborating on an actually-commissioned theater is the repertory theater in the Library-Museum building of the Lincoln Center for the Performing Arts, designed by Eero Saarinen Associates with Jo Mielziner as Collaborating Designer. This project will receive complete presentation in February 1962 P/A.

Theater will have a capacity of 1100: 330 in the five-rowed loges, and 770 in the amphitheater-like orchestra. Innumerable sight-line studies were undertaken to assure proper vision from all seats. The stage will be by far the largest for the production of legitimate plays in New York, containing 11,000 sq ft. It will have an expandable proscenium capable of a maximum width of 58 ft. A turntable, 46 ft in diameter, will also be a feature. The stage will have an apron extending 12 ft into the orchestra, which will be joined, when desired, by a "thrust stage" 16 ft deep by 23 ft wide, which can jut into the auditorium further by replacing seven rows of seats.

There also will be a smaller, experimental auditorium in the building.
On top of the Soldiers and Sailors Memorial Monument on Riverside Drive, roofing faces the wide extremes of New York weather, the relentless attack of city fumes.

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PERSONALITIES

When asked how she happened to become that rather unusual personage, a lady chief specifications writer for a major architectural firm, Louise Rowell of Sherwood, Mills & Smith, Stamford, Conn., replied: "I can tell you exactly how it happened. One day back in 1952, Willia Mills told me he thought I had the kind of mind that could turn out good specs. Then he asked me if I would like to become a spec writer. So I said yes first, and then asked him what a specifications writer did, and he told me, and I've been doing it ever since."

Graduated from the unlikely institution—for a spec writer—of Lowthorpe School of Landscape Architecture in Groton, Mass., (later incorporated into Rhode Island School of Design), Miss Rowell worked during the depression for the Historic American Building Survey. When World War II came along, she worked for the Boots Aircraft Nut Corporation, in Connecticut, becoming a draftsman while there. In 1945, during a weekend in Burlington, Vt., she asked for and got a job with the firm of Free man, French & Freeman (another alumnus of which is P/A's Editor, Thomas H. Creighton). Returning to Stamford in 1947, she began with the year-old firm of Sherwood, Mills & Smith as a draftsman, and was eventually made chief specifications writer in 1955. She is a member of the metropolitan New York chapter of the Construction Specifications Institute, and two years ago was assistant instructor in a course on spec writing at Columbia University. She is deeply concerned with helping improve standards in architectural specifications writing. "I hate to think of those first specifications I wrote," she says. "I've learned so much since then."

Marcel Breuer was busy recently dividing his time between a major project reaching completion in Minnesota and another major one in France that is in its preliminary phases. The hibition of the abbey designs and photographs at Minneapolis's Walker Art Center.

Meanwhile, overseas, Breuer has been commissioned to design large-scale office and garage additions for UNESCO Headquarters in Paris, also designed by him (with Zehrfuss and Nervi). He commented to P/A: "Again the architects are Bernard Zehrfuss, Pier Luigi Nervi and myself. In this case, however, UNESCO feels that the so-called advisory panel of five is not necessary."

New president of National Insulation Manufacturers Association is F. W. Muller, veep of Gustin-Bacon Manufacturing Company ... Elected New York State Association of Architects president at group's recent convention was FREDERICK H. Voss, of Kiff, Col lean, Voss & Souder ... Building Stone Institute gave its annual architec tural award to LLOYD MORGAN ... Architect DONALD BARTHELME has been named director of the Contempor ary Arts Museum in Houston ... New dean of the faculty at Cornell University is THOMAS W. MACKESY, former dean of the College of Architecture ... 1961-62 committee chairman of Lake Michigan Region Planning Committee is PAUL FRANK JERENEGAN; the committee is composed of architects and planners aligned to keep an eye on plans for the Lake Michigan area ... JOHN R. HAGLEY is serving his first semester as assistant professor of architecture at the University of Cincinnati's College of Applied Arts ... Architect BENJAMIN P. URMSTON was one of the winners of the recent competition conducted by Onan division of Studebaker-Pack ard Corporation to investigate new uses for electric generating plants ... Gold Medal of the Illuminating Engineering Society went to DR. DEANE B. JUDE of the National Bureau of Standards for his contributions in the field of color ... FRIEDRICH VON GROSSMAN of Milwaukee has been re-elected to the Board of Governors of the School Fac ilities Council of Architecture, Edu cation, and Industry ... BARCLAY G. JONES is associate professor in the Department of City Planning at Cornell, first appointee by College of Architecture Dean BURNHAM KELLY under new Dean's Fund in Architecture ... VINCENT G. KLING received the Gold Medal of Philadelphia chapter AIA for the design of McNiel Laboratories, Inc., offices; he got a citation for his proposed Norfolk (Va.) Civic Center.
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Most Beautiful Bridges

The American Institute of Steel Construction has designated, with the aid of a professional jury, the most beautiful steel bridges opened during 1960. Shown is the winner in Class II, for bridges with fixed spans under 400 ft and costing more than $500,000. It is the Roosevelt Boulevard Bridge over the Schuylkill River in Philadelphia, designed by Richardson, Gordon & Associates and fabricated by the Bethlehem Steel Company.

Independence for BRI

Architect Leon Chatelain, President of the Building Research Institute, and Dr. Detlev W. Bronk, President of the National Academy of Sciences-National Research Council, have announced that the Building Research Institute, until now a unit of the Division of Engineering and Industrial Research, will become an independent, nonprofit, technical society of building science during 1962.

Traveling Exhibits


Successful Bidders Use Diamond Heights Plan

As instructed by the San Francisco Redevelopment Agency, bidders for the Diamond Heights project (p. 37, August 1961 P/A) based their proposals on four designs that had been screened by a professional jury. The low bidder for the 22-acre area was Peninsula Apartments, Inc., at $4,525,000. Architects on whose proposal the bid was based are B. Clyde Cohen and James K. Levorsen; they presumably will see the job through.

New England Gets World’s Largest Radome

World’s largest radome, based on the now-familiar principles of Bucky Fuller, has been erected on Haystack Hill near Tyngsboro, Mass. Designed for the Air Force by MIT’s Lincoln Laboratory, the radome contains more than 1 1/2 million cu ft of space, and will withstand winds up to 130 mph. The structure is 150 ft across at its widest point, and has a base 90 ft across. The frame is composed of hollow aluminum.
NOT NEW ... JUST PROVEN

MAHON CURTAIN WALL

THE PROJECT
William F. Wyman Station of the Central Maine Power Co. at Yarmouth, Me. A five-year old project that retains its bright-as-tomorrow good looks. Engineers: Jackson & Moreland, Inc. Gen'l Contractor: Sanders Const. Corp.

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minum beams up to 15 ft long, and is covered with a skin of glass-fiber-reinforced plastic triangles that measure up to 15 ft on a side. The facility houses what is said to be one of the most sensitive research antennas ever built, a "dish" type 120 ft in diameter.

Diamonds for the Golden Triangle

Exposed structural steel framework will be the design highlight of the proposed IBM Building in Pittsburgh's Gateway Center, by Curtis & Davis. Frame will actually be four gigantic trusses, each covering one side of the building and resting on two reinforced concrete columns. Since the diagonal lines of the frame will direct stress to the concrete columns, all members will either be in compression or tension, a situation in which steel achieves its greatest strength. The X-shaped components of the frame will be factory-assembled in a number of larger sections for erection on site, thereby simplifying construction processes and reducing costs. Steel beams will be covered with a thin skin of stainless steel or aluminum, and the diamond-shaped openings will be filled with alternate rows of clear and opaque glass. The 13-story structure will have an adjacent, two-story underground garage to be topped by a landscaped park (see detail). Building is being financed by Equitable Life Assurance Society (its fifth building in the Center). Structural engineer is Worthington, Skilling, Helle & Jackson; electrical and mechanical engineer is Cary B. Gamble & Associates.

Curvilinear Community on the Potomac

In Washington, D. C., plans have been submitted for a community called the Watergate Development, on the Potomac River, adjacent to Edward D. Stone's proposed Cultural Center. The project will cover about 32 per cent of a more or less triangular site with semicircular and gently curved shapes, leaving room for some landscaped open space and a swimming pool. Three main shapes will make up the group: a semicircular apartment house enclosing two curved rows of town houses; a "semioval" apartment building behind it; and a group with apartment house, office building, and hotel linked in an L-shape. Three curved rows of town houses will be nestled between these three major shapes. The façades of the hotel and apartment houses will be broken up by curved balconies to create pleasing light and shade patterns. Designed by Professor Luigi Moretti of Rome and Milton Fischer of Corning, Moore, Elmore & Fischer of Washington, the project is being privately financed and sponsored mainly by developers called the Societa Generale Immobiliare of Rome. Parking for 1250 cars will be underground so that the ground level can be given over to pedestrians.

À Nous la Liberte

Many lucky visitors to Seattle's Century 21 Exposition next year will be able to sleep afloat on one of the world's grand old ships. The "Libérté," now on her last commercial voyage, will be tied up at a pier close by the fair grounds for the convenience of expected crowds. Until recently threatened with scrapping, the ship was purchased by a West Coast company with the promise to the French Line that she would never again sail as a commercial liner. Talks are underway with officials of the New York 1964-66 World's Fair to consider the "Libérté" for a floating luxury hotel there, also.

How to Succeed in Architecture, etc.

When the curtain goes up on New York's funniest, brightest new musical, "How to Succeed in Business Without Really Trying," it discloses a wry visual comment on the curtain-wall architecture now indigenous to Manhattan's midtown business district. This ultimate in curtain walls (it's a curtain, isn't it?) serves as the background for the introduction of our hero, J. Pierpont Finch (played goofily by Robert Morse), who goes onward and upward from window washer to chief executive of World Wide Wickets through unswerving pursuit of the main chance.

Continued on page 60

For more information, circle No. 400 >
SUMMIT BACKS DOWN
The uninhibited décor of New York's new Summit Hotel, which one observer said was obviously designed to make you run for the bar after the first, stunned look, lost out to viewer criticism and is in the process of being toned down with more upholstery, larger rugs, more muted colors. Morris Lapidus (Morris Lapidus, Harle & Leibman), creator of the extravaganza, said most criticism came from "sidewalk critics" and not hotel patrons, and that, anyway, New Yorkers are "too rectangular-minded."

New Film
A 22-1/2-minute film on professionalism and engineering entitled "George Spelvin, P. E." has been made available by the National Society of Professional Engineers. It may be borrowed from the society headquarters: 2029 K Street, N.W., Washington 6, D. C.

MERGER, NEW NAME
At a Scottsdale (Ariz.) meeting, the Aluminum Window Manufacturers Association and the Sliding Glass Door & Window Institute jointly announced that they would merge (effective January 15, 1962) into the Architectural Aluminum Manufacturers Association. Consolidation of the groups brings together 106 firms, manufacturing and associate members and approved laboratories.

CORRECTION
On page 66 of the NEWS REPORT [November 1961 P/A], the address of the Boston City Hall Competition was listed as 1 Church Street. The correct address is: Government Center Commission of the City of Boston, 1 Court Street, Boston, Mass.

OBITUARY
Chicago architect and civic leader Daniel H. Burnham was killed in an automobile collision on November 4. Mrs. Burnham died in the same crash.

CALENDAR
"New Materials and Better Home Building" is theme of 17th Annual Short Course in Residential Construction at University of Illinois, January 29 and 30 . . . 12th National Exhibition of the Air-Conditioning, Heating and Refrigeration Industry is scheduled for Los Angeles, February 12-15 . . . Annual Conference of the Church Architectural Guild of America will take place in Cleveland, March 20-22 . . . To end on a jolly note; the Architectural Student Association of the University of Minnesota is presenting its first annual Beaux Arts Ball on January 20; theme is "Space Creatures."
The Washington uproar over construction of freeways within the downtown heart of the city is much more than a local battle. It has wide national implications.

This clamor is responsible for finally enabling the architect to participate—for the first time on such a broad scale—in highway planning; and it focuses attention, besides, on the great damage that can be done by blind insistence on considering nothing else except the movement of vast numbers of motor vehicles.

The idea that highway and traffic engineers alone shouldn't be left to decide the fate of an entire city and its residents is beginning to get some serious attention.

At immediate issue is a plan for an "inner loop" freeway of up to eight traffic lanes that would cut closely around the monument and business heart of the capital; and construction of freeway-type links to several new bridges that are either already under construction or in the planning stage.

The furor, by now, has come to involve the city's highway engineers, the Federal Bureau of Public Roads, the Congress, the National Capital Planning Commission and the Fine Arts Commission (the latter two both purely advisory bodies but with considerable influence), the newly formed National Capital Transportation Agency, various civic organizations, and even surrounding suburban counties.

At stake are plans to unravel the city's growing traffic snarls, millions of dollars in construction money, rapid-transit vs. motorcar transit proponents, a lot of red-hot tempers, property owners who would be affected, and even the Lincoln Memorial, which would have a tunnel constructed beneath it to provide highway access.

One result has been withholding of approval by the Fine Arts and Planning Commission and the transit agency.

Part of the move for careful planning—with an eye toward effects on the city and its residents and visitors—has been led by architects. Principally, these are Mrs. Clothilde Woodward Smith, Louis Justement, and Alexander C. Robinson III of the Planning Commission; and Ralph Walker and William B. Perry, both architect-members of the Fine Arts Commission. The commission members have been instrumental in holding up approval of existing plans pending a further and more careful look.

Mrs. Smith, who is already heavily involved in planning the over-all appearance of the city's huge Southwest Redevelopment Area, got into the highway act via a commission from the city's consulting engineers (Rummel, Klepper & Kahl of Baltimore) in which she was given freedom to see if architectural planning could soften the blow of a traffic artery partly in open cut and partly in tunnel to connect a new bridge (the Theodore Roosevelt Bridge, now under construction) to the area of parks and monumental office buildings centered around the new State Department building.

She came up with a plan that was hailed by the Planning and Arts groups and by local newspapers (which unfortunately described it rather sparsely as a matter of landscaping, fountains, and fancy wall treatment).

Actually, the plan is much more than fountains and greenery: it is a conscious attempt to get the highway built on a scale and in a manner that will fit into the urban scene, rather than to permit a great, stark gash across this section of the city which would, incidentally, create hard-to-reach islands of buildings.

Says Mrs. Smith: "We have made recommendations for alternate materials and methods which we believe would better relate the [freeway] to the adjacent buildings and parks and minimize its impact... The basic direction of the design is to create the maximum amount of surface at the same level as the surrounding areas—and, where this is not possible, to create a visual relationship that brings buildings in proper balance as the frame on either side of an avenue—with entrances visible and comprehensible, rather than cut apart and unrelated."

To P/A, she made the additional comment that architects haven't taken enough interest in highway and city planning, that too often they're concerned only with a single building or group—not with their impact on an entire area or city.

"This is an exciting challenge to me, and to most architects," she said.

Impact of highways on urban planning was also getting attention from another Government agency, the Housing and Home Finance Agency.

Urban Renewal Commissioner William L. Slayton told highway officials that urban transportation planning is a top problem in every city, and must be co-ordinated with renewal work.

He repeated this admonition to urban renewal officials who had gathered in Washington for a meeting of the National Association of Housing and Redevelopment Officials.

In addition, HHFA Commissioner Robert Weaver announced the establishment of a transportation office.

FINANCIAL

With the calendar year pulling to a close, the construction sector of the economy continued to show great strength.

This was probably due to a mild fall and early winter, as well as the generally strong recovery made by business after last winter's very brief recession.

For the distant future, prospects are rosy indeed, if the Department of Commerce's most recent predictions are anywhere near accurate: Commerce said that, by 1975, construction should be grossing $107 billion annually; by the year 2000, annual business should hit $219 billion.

On a closer look, demand for construction work continued strong, despite the normal slackening off toward the end of the year. During October, for instance, electric utilities announced plans for $265.5 million's worth of work in 1962; gas utilities saw $165.4 million's worth; private buyers planned $9.8 million's worth of new construction, ranging from a $4.5-million hotel-motel and a $2-million heavy water plant to relatively minor enlargement programs.

In the field of municipal finance, voters continued toOkay a far larger proportion of construction financing than they rejected—though they were still bearish on municipal office buildings and the like. But spending for schools, waterworks, and sewerage projects rated well with taxpayers, they approved some $5 billion's worth of bonds, mostly for these purposes, within the first nine months of 1961.
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ART: RELAX AND ENJOY

Joan Miró, who can introduce humor and movement into a vast black canvas tenanted only by a long-tailed black creature resembling a *Spirochaeta pallida*, was the subject of a show of recent (1959–1961) paintings and ceramics at New York's Pierre Matisse Gallery. The 1959 "Woman and Bird" (shown) represents Miró in his fantastic bent, a tendency of the artist's well-documented in the exhibition. Observing Miró viewers during a recent visit to the show, this commentator was reminded by their dour mien of the famous story of the child at a Paul Klee exhibition: "Why is everyone so serious?" he cried; "Why aren't they enjoying the funny pictures?" Must we suffer to "appreciate"?

At the Robert Isaacson Gallery, New York. The drawings are quick, concise studies; some of them are calligraphic in their simplicity and many are strongly reminiscent of the work of Modigliani. "Standing Female Nude," shown here, dates from the years between 1904 and 1910.

An abstract sculpture of gold- and bronze-anodized aluminum is the latest addition to the art of the United Nations. The piece, by Ezio Martinelli, has been placed on the outside of the east wall of the General Assembly building, overlooking the rose garden. The sculpture collection was a pet project of the late Secretary General Dag Hammarskjöld, and includes two contemporary sculptures by Robert Cronbach and José de Rivera.

Elie Nadelman, best known for his bronzes of natty gents in bowler hats and demure ladies in long dresses, was shown in another medium—drawing—blow up the old forms in order to create another puzzle with these blown-up pieces." Shown here are the

At the Otto Gerson Gallery, a retrospective exhibition of 50 years of sculpture by Jacques Lipchitz gives what is virtually a capsule vision of the development of modern art in this century. Compared to Reder (this season's 'vieux terrible' whose work was noted in these pages last month), Lipchitz's art is more intellectual and more truly emotional than that of Reder and immensely superior to it. In a letter to Gerson on the retrospective show, Lipchitz gave his view of the cubist movement in sculpture: "The sculptors, not being any more satisfied with the existing patterns [than the painters], felt the need to earliest ("Head of Mlle. S.," 1911) and the most recent ("Lesson of a Disaster," 1961) sculptures in the show.

Chagall's stained glass windows for the Jerusalem medical center are being shown at the Museum of Modern Art. More complete review will be seen here next month. A preliminary view indicated that Chagall, in touching up the glass before its last firing, may have destroyed some of its more exciting translucent qualities.
Schweikher Space Frame for Pittsburgh International

PITTSBURGH, PA. Visitors to the Pittsburgh International Exhibition of Contemporary Painting and Sculpture, one of the most important continuing U.S. surveys of what is happening in current art, are seeing a new installation for the showing of art in the galleries of the Department of Fine Arts of Carnegie Institute.

Designed by Paul Schweikher, head of the Department of Architecture at Carnegie Institute, the installation utilizes a hung space frame based on the R. Buckminster Fuller concept. The space frame is hung 10 ft below the skylights of the high-ceilinged old gallery, and hovers 14 ft above the floor. Simplicity of construction features a series of "Unistrut" gusset connections. For mounting pictures, double-faced aluminum panels measuring 4 ft by 14 ft (including legs consisting of rubber-tipped jacks) extend between the space frame and the floor. The panels were developed by the architect with the Overly Manufacturing Company. Rearrangement of the lightweight panels is easy and flexible. The new installation has added 800 running feet to the exhibition space of the galleries, and will be retained for the permanent exhibit.

Reaction to the Pittsburgh International, which was assembled by Carnegie Fine Arts Director Gordon Bailey Washburn, has been mixed. Some critics viewing the show have chided it for a certain "safeness" of selection, particularly among the winners (there are a number of prizes and mentions given each time the International is shown). However that may be, Schweikher's provision for showing art deserves an award for good use of existing space for new purposes. The exhibit will continue through January 7, should you be in Pittsburgh.

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Chicago High-Rise Has Carbon Steel Exterior

CHICAGO, ILL. Columns and spandrel beams of the new Continental Center now under construction here are being sheathed in a curtain wall of 3/8"-thick carbon steel plate, welded and painted. Glazing is tinted glass framed in stainless-steel sash. The building was designed by Naess & Murphy of Chicago.

Carbon steel facing plates join high-strength "Man-Ten" columns and other steels for a major role in the economy and design of the building. Covering plates perform double duty: besides exterior frame design, they serve as backup to concrete for fireproofing. Studs are welded to outside of columns and spandrel beams and to back of facing plates; thus serving as reinforcement of concrete when it is poured and vibrated into place between plates and columns and beams. Structure has 42-ft-sq bays, allowing for duplication of sections for beams and cover-plated girders to permit economical fabrication of hundreds of identical floor beams. Extra-long spans provide column-free space. U.S. Steel Corp., 525 William Penn Pl., Pittsburgh 30, Pa.

Life Can Be a Dome of Many-Colored Glass Fiber

NEW YORK, N. Y. A new acoustical ceiling unit, consisting of a shallow domed, 2-ft-sq shape of glass fiber fabric backed, with a binder, by a base of glass fibers, has been introduced by Johns-Manville.

The units, which have also been described as rising "gently to a vaulted center," are of a thickness about one-third that of regulation flat sound-control panels. For all their thinness, however, they are quite strong and rigid, "Acousti-Shell" panels are said to absorb up to 80 per cent of room noise striking them. Acoustical properties are reportedly "unusually high" at all frequencies from 125 to 4000 cycles per second. Flamespread rating is zero. The panels are supported by a light grid section of formed metal sections, which are suspended from the overhead slab by wires or straps. System also includes flat panels for borders, for areas around columns and beams, for spotlight cutouts, and other uses. Standard colors so far are white, blue, and green. On special order, fabrics may be dyed in other colors or printed with custom designs. A J-M spokesman has stated that "many other shapes can—and no doubt will—be considered upon request." Mock-ups shown below illustrate use in different areas. Johns-Manville, 22 E. 40 St., New York 16, N. Y.

On Free Data Card, Circle 100

On Free Data Card, Circle 101
New Technique: Marble and Metal

The main entrance to the new auditorium of New York's National Design Center is graced with walls sporting an interesting new design technique: marble embedded with aluminum strips. Designed by industrial designer Walter Dorwin Teague, the walls are of two different marbles—Loredo Scuro (shown) and Imperial Danby. The marble panels were cut to a thickness of 3/4", with vertical slots cut into the marble, into which metal strips were cemented, flush with the face of the marble. Other materials which can be stripped in include brass, stainless steel, wood, and plastic. Design variations are possible with combinations of inset strips. Marble Industry Board, 41 E. 42 St., New York 17, N. Y.

Acoustical Curtains for School Partitioning

Vertical, electrically operated acoustical curtains are fabricated of vinyl and lead for a high degree of sound control. "LeadX" curtains can be raised out of sight for the creation of a large, unbroken space, or lowered to form smaller, acoustically private rooms. Top roller mechanism is housed in a ceiling enclosure that takes only 18" of space. Manufacturer's spokes­man says ASTM tests have indicated that the greater weight per sq ft and "limpness" of the curtains provide low incidence of sound transmission. Torjessen, Inc., 209 25th Street, Brooklyn 32, N. Y.

Bowl and Ball

A metal hemisphere available in six colors contains three reflector bulbs mounted on swivel bases, which can be concentrated on one spot on the ceiling or can provide an indirect wash. Below it is an opaline sphere that provides direct downlight. Wiring permits the illumination of both units at once or single units independently. Designed by Paul Mayen for Habitat, Inc., 336 Third Ave., New York 10, N. Y.

Prefinished Form Board

New prefinished form board has an embossed white plastic film facing that requires no further field painting, giving a finished look to exposed ceiling areas where a permanent, decorative finish is wanted. The board, which serves as the form for poured-in-place gypsum and lightweight concrete decks, is available in thicknesses of 1", 1 1/4", 1 1/2", and 2", and in 32" x 42" to 48" in 1/4" increments of length, and 24" x 36" to 96" in 1/4" increments of length. The sound-absorption value of the board is said to compare favorably with more expensive acoustical ceilings, and it provides light reflection of over 75%. The surface may be cleaned with everyday soaps or detergents, clear water, and cleaning agents such as household ammonia. Recent application shown is Frances E. Connors Addition to Livingston Park School, North Brunswick Township, N. J., by Architect Woerner & Woerner, Owens-Corning Fiberglas Corp., 717 Fifth Ave., New York, N. Y.

Something New in Asbestos-Cement

"Permatone Flexboard Trim" is a plastic-coated asbestos and cement composition for use as battens, belts, eave trim, fascia, corner, rake, and skirt boards. Trim may be nailed or sawed, is noncombustible, termite-proof, and will not rot out, crack, or peel. It looks and wears like stone.
To avoid monotony in a series of ceiling-level lighting fixtures, Marco presents the "recessed recess" fixture. A minimum of trim confines the fixture which recedes upward towards aperture or lens. Result: an attractive, though unobtrusive light source performing its task with maximum efficiency. Use coupon below for handsome catalog illustrating over 100 new recessed lighting fixtures.
Available in 8’ to 10’ lengths, in widths from 1½” to 6½”. It is 5/8” thick. Trim was originally intended for use with “Permatone Flexboard,” but obvious versatility has broadened applicability. It is available in six colors either pre-primed or with a factory-applied acrylic coating. Johns-Manville, 22 E. 40 St., New York 16, N.Y.

New Unit Combines Gas Heat, Electric Cooling

“Econoair Year Round Conditioner” combines an air-cooled, electric, remote air conditioner and a horizontal type, forced-air gas furnace in a weatherproof cabinet measuring 2’ x 3’ x 4’. The unit has been approved for outside installation by the American Gas Association. Conditioner can be either slab-mounted on the ground level or rooftop-mounted. Presently, there are two models offered: Model 24/55 (2 tons cooling capacity, 55,000 Btu heating capacity), and Model 36/80 (3 tons cooling capacity, 80,000 Btu heating capacity); other models will follow as the line expands. The Payne Furnace Co., P. O. Box 2222, La Puente, Calif.

Rectangular Dishwasher Installs Almost Anywhere

Ling-Temco Electronics, Inc., has designed a dishwasher with several innovations. Because of its rectangular shape, it can be installed under counter, on top of counter under cabinets, recessed in a wall, mounted on a wall, or can stand on its own rolling stand. It comes in three sizes, all 30” long; for 6 settings, 13” deep by 15” high; for 10, 13” x 18”; for 15, 23” x 18”. It creates its own water pressure independent of the water pressure in the house, so that it can be used in the 32 states in which water pressure problems discourage the use of dishwashers. The washing cycle takes only 25 minutes, about half the usual time and uses a “wave of water” principle. The sheets of water washing back and forth slowly over the dishes are said to clean more thoroughly than jets or fountain-like action. At the end of the washing cycle, steam is sent over the dishes and turns to dis­tilled water on contact. This rinses off minerals in the washing water which cause spotting, a fault of many dishwashers. Motor and controls are in a compact unit which can be removed for repair while a substitute unit carries on with the work. In brushed stainless steel, coppertone, woodtone, and various colors. Priced from about $200–$280. Ling-Temco Electronics, Inc., Temco Industrial Division, P. O. Box 6191, Dallas 22, Tex.

compact work lamp

Tiny, powerful incandescent lamp for close work is 10” high, rests on a base just a bit larger than a packet of cigarettes. Lamp features a miniature reflector with a diameter of 2½”, cork insulated for heat control. A five-position switch allows control of intensities from 12 2/3 to 192 foot candles. Three 6-v General Electric bayonet-type bulbs are provided with each lamp. Another feature is an electrical outlet which may be used for appliances or small electrical tools whether the lamp is on or off. Price is $46.50, in black wrinkle or smooth white enamel. Tensor Electric Development Co., Inc., 1873-1877 Eastern Parkway, Brooklyn 33, N.Y.

compact work lamp

Sleeve Filters Out Fluorescent Problems

“Filtersleeve,” an entirely new lighting product, is a flexible plastic sleeve that fits over fluorescent tubes to eliminate many fluorescent-lighting problems. The sleeve filters out ultraviolet rays, thereby eliminating costly fading and degradation of merchandise, reducing glare and eye strain, and correcting color distortion. Filter­sleeves are available for all standard sizes, are easy to install, and are reusable. They are particularly suited to the new high-intensity or power-groove tubes. The clear plastic film passes 90% of visible light, resulting in a soft, natural, white light. Infro­pake Corp. of America, Greensboro, N.C.

Gypsum Wallboard Has Vinyl Coating

“Sheetrock” gypsum wallboard takes on a new look with the addition of a vinyl-coated line. Featuring a durable, laminated vinyl surface, the product is designed to provide prefinished, maintenance-free walls for residential, commercial, and institutional buildings. Eight decorative colors and two wood-grain patterns are integrally blended into the laminate to give a nonfading, washable surface. Panels are 3/16” thick, 4’ wide, 8’ or 10’ long. New extruded-aluminum moldings have permanently bonded finishes to match the wallboard colors and patterns. United States Gypsum Co., 300 W. Adams St., Chicago 6, Ill.

premolded sealer makes 1/8” joints

“Sealfastic” premolded sealing material is especially adapted to sealing narrow 1/8” joints in concrete pavements. The 1”-thick, impregnated polyurethane foam is precompressed (or readily compressed on the job) to a thickness as narrow as 1/16”. After
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insertion into the joint, it expands laterally to prevent moisture seeping into the subgrade. No adhesives are required, and the seal can be dropped into place immediately after the joint is sawed. (Photo compares a poured joint sealant and new Sealfastic installed in sawed joints.) Tests indicate that the material lasts almost indefinitely and resists even the heat of jet-aircraft exhaust. National Expansion Joint Co., 1601 Embarcadero, Oakland, Calif. On Free Data Card, Circle 113

### Hardboard Breaks the Color Barrier

For the first time, a hardboard panel is available with a scatter mosaic design in color. "Sandalite," made by an entirely new manufacturing process, has particles in three shades—white, gray, and blue—on a light-blonde base tone. The product has a factory-sealed face to protect against stains and abrasion; it is a grainless wood material which is easily worked with ordinary hand tools or power equipment. Sandalite is available in plain panels, in "Forall" (Sandalite faces laminated to a hardboard core), in random plank with a V-groove, in tongue-and-groove panels, and in panels with punched holes. Forest Fiber Products Co., P. O. Box 68, Forest Grove, Ore. On Free Data Card, Circle 114

### Can’t Pick a Pack of Push Buttons

Completely new locking device, the "Simplex Push Button Lock," consists of five push buttons and a knob, handle, or lever—and no key. It is operated by pressing one or more buttons that have been preset to one of over 1,000 combinations. The device is virtually pick-proof—it cannot be opened by pick-lock, X-ray, stethoscope, or touch. Compact and flexible in design, the lock suggests a wide variety of applications: storage units, closets, medicine chests, liquor cabinets. The mechanism can be engineered to meet specific design requirements. Simplex Lock Corp., 150 Broadway, New York 38, N. Y. On Free Data Card, Circle 115

### Acoustical Door Only 3/4” Thick

Steel door-and-frame package features an acoustical door only 3/4” thick. The slim steel door represents a major departure in door design and construction, and is said to offer the lowest cost, maintenance-free interior door-and-frame combination on the market. The door is prefinished in off-white, baked-on enamel; special gate-type hinges permit it to be hung by one person in a matter of seconds. Sound-deadening foam gives the door a solid feel, insures quiet operation, and blocks out between-room noise. The new door is designed primarily for residential and apartment use; in tests, the door has been slammed 15,000 times—the equivalent of five generations usage—with no effect on door, frame, or surrounding wall. Republic Steel Corp., Truscon Div., 1315 Albert St., Youngstown 1, Ohio. On Free Data Card, Circle 116

### School Heating-Cooling System Controls Air

New concept in heating and cooling of classrooms controls air rather than steam or water. Through a unique full-damper system, Modine’s "School-Vent" couples impressive performance with built-in economies. System consists of: (1) face-and-bypass insulated damper which directs air through and around heating coil according to comfort requirements; (2) insulated anti-wipe damper which permits complete isolation of coil, eliminating heat pick-up from the coil; (3) indoor and outdoor dampers which assure proper blend of fresh and recirculated air. When room is unoccupied, system operates primarily by convection. Face-and-bypass and anti-wipe dampers are open, and fan starts only when temperature drops below predetermined setting. Indoor damper is closed and outdoor damper open. During morning warm-up, fan starts and runs until room temperature reaches daytime setting. Throughout warm-up, all dampers remain in nighttime settings, recirculating room air for maximum heat gain. Eventually, the outdoor damper opens to blend proper amount of fresh with room air. Concurrently, face-and-bypass and anti-wipe dampers automatically adjust to maintain desired room temperature. Modine Manufacturing Co., 1500 DeKoven Ave., Racine, Wis. On Free Data Card, Circle 117
Many a modern man finds himself over his depth in a desperate search for refuge from the harassments of noise. At Elof Hansson we prefer to be realistic and come up with functional solutions. Our engineers plunge into the most intricate acoustical problems and emerge with practical, professional methods of sound control for the world of today—and tomorrow.

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Control of Air Pollution

Illustrated bulletin, 12 pages, describes the new line of American-Standard electrostatic precipitators for air-pollution problems in industry. Principles of electrostatic operation are described, and all components of the equipment are explained. Several photos of typical applications of the equipment are included. Industrial Div., American-Standard, 8111 Tireman Rd., Detroit 32, Mich. On Free Data Card, Circle 200

New Roof Ventilator Reverses Air Flow

Unique "Reversible Roof Ventilator," which can be converted from exhaust to intake at the flick of a switch, is one of several roof ventilators included in new 16-page bulletin. Other types described are two vertical discharge units ("Vertijet" and "Airjet"), and new low-silhouette "Mushroom Head" unit. Complete details, specifications, dimensions, and performance data are provided. Hartzell Propeller Fan Co., Piqua, Ohio. On Free Data Card, Circle 202

Written for Architects

Handbook of Year-Round Air Conditioning, 48 pages, has been prepared especially for architects (at the request of the AIA) by the Producers' Council. Air-conditioning topics considered of greatest interest to architects were incorporated in the booklet, after 75 firms across the country had been contacted. Subjects discussed include architect-client interests, air-conditioning fundamentals, equipment used in modern air conditioning, selection of equipment in relation to building design, factors affecting air-conditioning loads, loads related to glass areas and opaque areas, air distribution for comfort, and sound control. Editor, American Air Facts, American Air Filter Co., Inc., 215 Central Ave., Louisville 8, Ky. On Free Data Card, Circle 203

Refrigeration Consultant for Carrier; his discussion compares major refrigeration systems and gives a typical analysis of installed costs and annual expenses to determine optimum chilling system. Photos and charts accompany the text. Although technical, the article is intended for the experienced layman (building owner or manager) as well as engineer and architect. Carrier Air Conditioning Co., Carrier Parkway, Syracuse, N. Y. On Free Data Card, Circle 204

CONSTRUCTION

Fire-Resistance Data on Complete Assemblies

Fire Resistance Design Manual, 32 pages, is a well presented and valuable booklet. The designer is provided with data on a wide selection of related construction assemblies—rather than materials—so that he may see at a glance their relative performance characteristics. Since fire resistance is one of the basic considerations of design, the various assemblies are arranged in tabular form according to their hourly fire-resistance rating and construction use. In addition, the fire-test reference number is given. The tabular data also includes sound-transmission loss ratings, thickness, and weight of the construction assemblies. Gypsum Association, 201 North Wells St., Chicago 6, Ill. On Free Data Card, Circle 205

Those Astute'll Know About Butyl

Booklet on butyl rubber and its versatility in building applications is available. Covered in the 8-page booklet are butyl's use for roofing, roof coating, traffic decking, gasketing, weatherseals and void fillers, floor cushioning, shock- and sound-absorption pads, and water barriers. A
Floor substructure is an engineered grid-support system which offers great strength and rigidity without excessive bulk or weight. Steel stringers are firmly bolted to the patented adjustable "Strato-Tri-Jack," which utilizes the strength of the triangle to give greater support to the stringer than the conventional type of jack. Strato-Floor Inc., 795 East 152 St., Cleveland 10, Ohio.

Design Data on Tubing

Handy data item for desk or drafting board is the square cardboard tube which gives pertinent design data on hollow structural tubing. Printed on its sides are tables giving such information as size, weight, area, moment of inertia, section modulus, and radius of gyration for square and rectangular tubing. Other data—lengths, mechanical properties, surface and end finish—are briefly outlined. An accompanying page suggests some of the advantages of hollow structural tubing. National Tube Div., United States Steel Corp., 525 William Penn Place, Pittsburgh 30, Pa.

Colorful Concrete

Catalog, 4 pages, describes "Colorundum" a ready-to-use powder containing hardeners, coloring, dispersing agents, and binders. Dusted on and troweled into freshly poured concrete, it produces concrete floors that are hard and abrasion-resistant, decorative, and easily maintained. Discussed in catalog are the product's uses, methods of application, available colors, detailed specifications, and suggested after-treatments. A.C. Horn Companies, Div. Sun Chemical Corp., 2133 85th St., North Bergen, N.J.

Protection of Wood Against Fire and Decay

New 6-page folder discusses "Non-Com" treatment by which lumber and plywood are pressure-impregnated with inorganic chemicals, not only protecting the wood against fire but also against attack by termites and decay. The bulletin shows Non-Com's economy and minimal maintenance for roof decking, partitions, and wall assemblies; case histories dramatically show the treatment's permanent advantages. Also cited is the recognition given by insurance, govern-
In construction products
Ceco engineering
makes the
big difference

New 20-story Merchandise Mart Building in Atlanta, Georgia,
utilizes Ceco Steeldome construction.
Architect: Edwards & Portman
Engineer: Jack Wilborn
Contractor: Consolidated Realty Investments, Inc.

Typical Steeldome ceiling treatment with
acoustical finish on exposed concrete, and
acoustical tile in voids.

Dramatic effect is created with "open-grid" used for patio area of newly constructed North Central High School, Miami, Florida.
Architect: Polewitsky, Johnson & Associates
Engineer: H. J. Ross and Associates
Contractor: Thompson & Polizzi Construction Company
In Washington, D.C., the Riddell Building was designed with floors and ceilings of Ceco Steeldome construction. Structure at left end is the Bank of Commerce, an earlier Ceco floor-framing project.


You can achieve long spans, heavier loads, unusual ceiling decor when your designs call for...

Ceco Steeldome 2-way concrete joist construction

There's a trend to two-way dome slab construction. From coast to coast you see "waffle-type" exposed ceilings—in commercial buildings, banks, apartments, hospitals, schools, churches, parking garages... in new buildings of every description. Why? Two reasons: (1) two-way dome slab construction permits economical long spans and heavier loads, and (2) the Ceco Steeldome way of forming this construction offers opportunities for unusual interior styling. You can create special ceiling effects at low cost by painting the smooth concrete surfaces, or spraying on acoustical material. You can apply acoustical tile—or design for "open" treatment. There are many possibilities awaiting your skill.

For additional information about Ceco Steeldome construction, as well as one-way construction with flange-forms, adjustables and longforms, ask for your copy of newly published 72-page manual 4002-C, "Monolithic Reinforced Concrete Construction with Ceco Service."

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steelforms • concrete reinforcing • steel joists • curtainwalls, windows, screens, doors
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For more information, turn to Reader Service card, circle No. 324
New Door Operator Is Electric

New electric automatic door operator has been added to Stanley’s line of pneumatic and hydraulic operators. Features of the “Magic-Door” are presented in 6-page folder. It is compact and economically priced, designed for in-the-header mounting as well as visible mounting, applicable to new or existing doors from 30” to 42” wide. Magic-Door Sales, Dept. PD, Stanley Hardware, Div. of the Stanley Works, 195 Lake St., New Britain, Conn.  

On Free Data Card, Circle 212

Single-Glazed Aluminum Windows

Four basic styles of single-glazed aluminum windows have been develope by Fleet for areas and applications where the high-insulating value of its double windows is not required. Units consist of horizontal sliding sash and glass-fiber screening in an extruded-aluminum frame. Styles, as shown on 4-page folder of details, are Twin Slide, Triple Slide, Quad Slide, and Picture Slide. Largest size is 12'-0” x 5'-1”. Fleet of America, Inc., 2015 Walden Ave., Buffalo 25, N.Y.  

On Free Data Card, Circle 213

ELECTRICAL EQUIPMENT

Underwater Lighting

New catalog, Section G, includes full data on entire line of cast-bronze, low-voltage, swimming pool lights. The various fixtures are for use in new or existing pools of concrete, gunite, tile, steel, or glass fiber. Also included are fountain, cascade, and pond lights, deck boxes, and fully submersible junction boxes. Specifications and dimensional data are provided. Stonco Electric Products Co., 333 Monroe Ave., Kenilworth, N.J.  

On Free Data Card, Circle 214

Portable Lamps for Contract Interiors

Illustrated booklet, 12 pages, shows Nessen portable lamps used in commercial and institutional interiors. A number of examples show how the scope and flexibility of the standard collection can be expanded—to satisfy specific contract lighting requirements, to overcome space restrictions, to provide extra durability, or to meet budget limitations. Photos and drawings depict these “special” lamps in which design and construction have been modified for contract interiors. Nessen Studio Inc., 317 East 34 St., New York 16, N.Y.  

On Free Data Card, Circle 215

Football Floodlights

Special manual, 32 pages, contains specifications and installation data on football-field lighting. Included are minimum mounting heights, recommended distances for installation of lighting poles, and suggestions for type and number to suit specific seating capacities. Described and illustrated are all components needed for complete installation. Benjamin Div., Thomas Industries, Inc., 207 East Broadway, Louisville, Ky.  

On Free Data Card, Circle 216

Switchgear Savings

Catalog, 16 pages, introduces “revolutionary” low-voltage power switchgear. Completely new from its frame to its ingenious trip device, the “FP” line provides substantial dollar savings in electrical system application. Increased interrupting capacity of 50,000 and 100,000 amp gives benefits of fully rated systems without price penalty; gives low price previously available only in a cascade system, but without the inherent dangers and breaker damage resulting from full
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O. Frank Heinz Construction Co., Inc., Peoria, Illinois

Plastering Contractor:
J. J. Kinsella & Son, Peoria, Ill.

(Note: Construction costs in Eureka, Ill., are approximately the same as those in Chicago, a high-cost construction area.)

For more information, turn to Reader Service card. circle No. 349
Continued from page 88

fault duty. Many other new construction and operation features are illustrated. Federal Pacific Electric Co., 50 Paris St., Newark 1, N.J.
On Free Data Card, Circle 217

Simplicity of Design in Luminaires

Brochure, 12 pages, illustrates some of the fluorescent and incandescent luminaires for architectural application produced by Gotham. Each luminaire is the result of intensive optical development and photometric testing; manufacturer’s stated aims are design simplicity and excellence of performance. Among the fixtures shown are recessed downlights, recessed accent lights, and recessed fluorescent troffers. Full dimensional data is given. Gotham Lighting Corp., 37-01 31st St., Long Island City 1, N.Y.
On Free Data Card, Circle 218

Emergency Lighting

Illustrated technical handbook is available on Exide’s line of automatic battery-powered “Lightguard” equipment that provides emergency lighting automatically and instantaneously when normal electrical power fails. The 8-page handbook gives complete descriptions of the equipment. Methods are suggested for providing emergency lighting in two adjacent areas, in stairwells, or in separate rooms by means of a single emergency unit and remotely connected lamps. Also valuable in planning adequate lighting protection is a graph of a typical installation showing the light intensities of a single Lightguard lamp at various dis-
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For more information, turn to Reader Service card, circle No. 367
Fixtures Support Systems

Catalog, 24 pages, describes the “Power-Strut” system of surface raceways and electrical supports. The complete line includes many economical features: a broad range of continuous slot channel that assures perfect alignment and fits any need, heavy or light; an adjustable nut that makes assembly quick and simple; a wide variety of electrical fittings that provide maximum holding strength and are designed to minimize installation time. Catalog illustrates the various fluorescent fixture hanging systems, typical electrical support applications, and all the accessories and fittings. Power-Strut Div. of Van Huffel Products, Inc., Warren, Ohio.

On Free Data Card, Circle 220

FINISHERS/PROTECTORS

Avoiding Wet Basements

Use of “Jennite J-16” to eliminate wet basement walls is described in new technical bulletin. Applied in conjunction with fabric on the outside of foundations, Jennite forms a tough, waterproof, seamless membrane that will not rot or deteriorate. Curing of the sealed memebrane requires 24 hours before backfilling of soil can begin. Maintenance Inc., Wooster, Ohio.

On Free Data Card, Circle 221

Paint Products and Specs

New catalog on “100% Pure Paints” has been issued. Comprising 60 pages, the catalog gives complete product information, as well as architectural specifications, suggestions for good painting, and a Federal specifications chart. Products are indexed for easy reference by use: interior finishes (flat, semigloss, high, floor finishes) and exterior finishes (wood, metal, masonry, primers, solvents). Staley Paint Manufacturing Co., 5243 Manchester Ave., St. Louis 10, Mo.

On Free Data Card, Circle 222

All About Epoxies

Those Fabulous Epoxies, an 8-page article, analyzes the epoxy-coating field objectively, pointing out the advantages and disadvantages of epoxies as compared with conventional paints. It explains to the architect what he can expect of epoxies, and where he should (and should not) specify them. The five “Proco” systems for various film thicknesses and desired results are outlined, and sample specifications are provided. Protective Coatings, Inc., 807 North Fremont Ave., Tampa 1, Fla.

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For more information, turn to Reader Service card, circle No. 328

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Section AA. At American Concrete Institute in Detroit, warm or cool air flows from supply duct, through Flexicore hollow cell, and is exhausted into room at outside wall.

Section BB. Electrical wiring runs from panel box, through header, then through Flexicore hollow cell to floor outlet. Similar system is provided for telephone.

Section CC. Selected cells are used for electrical, telephone, and for air ducts. Electrical fittings by Conduflor Corp., Cleveland.

First Floor Framing. Corridor floor was cast in place with corridor bearing walls. Flexicore clear-spans from corridor walls to outside walls.

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Hollow cells in Flexicore precast, fireproof floors are used for electrical and telephone wiring, and as air ducts for warm air heating, air conditioning and ventilating at American Concrete Institute Headquarters, Detroit.

For more information on this project, ask for Flexicore Facts No. 82. Write The Flexicore Co., Inc., Dayton, Ohio, the Flexicore Manufacturers Association, 297 S. High St., Columbus 15, Ohio or look under "Flexicore" in the white pages of your telephone book.