McCue Becomes Chairman at Berkeley

BERKELEY, CALIF. Gerald M. McCue, 37, a Berkeley architect and, since 1954, a member of the University of California faculty, has been named chairman of the Department of Architecture there. McCue's firm, Gerald M. McCue & Associates, is known primarily for its design of research facilities. Among their projects are the 88" cyclotron building at the University of California's Lawrence Radiation Laboratory in Berkeley, the Chevron Research Laboratories and Stauffer Research Center in Richmond Calif., and the Dow Chemical Company Research Center in Walnut Creek, California. McCue and his firm are currently project architects for the Bay Area Rapid Transit District subway stations in Oakland.

McCue takes over a department of 900 students, said to be "the largest department of architecture in the English-speaking world." In announcing the appointment, Dean Martin Meyerson said: "Professor McCue has the imagination and administrative talent to lead the department in the period ahead when a new focus is being developed. This means the aesthetic orientation of architecture must be wedded to an intellectual one as well. In the process, the department must develop the closest ties with other fields in technology, the humanities, and the social and natural sciences." What Meyerson was referring to is a revision of Berkeley's architectural curriculum, to take effect in the fall. Instead of a five-year program, the department will offer one that runs four years plus two. First three years will include heavy dollops of liberal arts courses.

The fourth will concentrate on structure and design. Following the fourth year, a B.A. will probably be awarded; and at the end of two more, which will concentrate on advanced structure and design, an M.A. will be granted.

Chandelier for Seattle

SEATTLE, WASH. "At night, with its illuminated plaza, it will become Seattle's chandelier," Pietro Belluschi, consulting architect for the headquarters building of the Seattle First National Bank, is quoted as saying. Whether or not it becomes a chandelier, the $28-million building, scheduled to get under way in August, will radically alter Seattle's skyline. At 50 stories, it will be Seattle's second-tallest building, topped only by the San Francisco Bank building now going up on an adjacent site. More than that, it will add a distinctive contemporary architectural note to a skyline almost devoid of highlights.

Architects Naramore, Bain, Brady & Johanson's design calls for a rectangular tower
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supported at the corners by four Y-shaped columnets, tapering from an 18' width at ground level to a 4' width at the top, and running the equivalent of three stories below ground for maximum earthquake resistance. A core cluster of 36 steel columns provides central support.

On its façade, the building will have bronze-tinted aluminum mullions and bronze-tinted windows. About two thirds of the site, which takes in an entire city block, will be an open plaza (built up at one end to level the sloping site), landscaped with trees, shrubs, fountains, and reflecting pools. On the lower edge of the sloping site will be a 32'-high, glass-enclosed lobby. Parking on three levels will accommodate 600 cars. The top story will contain a public restaurant and observation lounge with a view rivaling that of the Space Needle. The roof will house a heliport.

**Brainstorming the Roosevelt Memorial**

**WASHINGTON, D.C.** Tucked away in President Johnson's current budget message is an appropriation of $50,000 for the design of a memorial to Franklin D. Roosevelt. The original competition-winning design by Pedersen, Tilney, Hoberman, Wasserman, Beer, foundered.

**Look What the Stork Left**

**NEW YORK, N.Y.** The days of the Stork Club (1934-1965) are over. The famous watering spot and haven for café society, writers and starlets, has closed its doors, the land sold from under it to be turned into a park. From the 30's to the late 50's, this was, as frequent Walter Winchell put it, "the Newyorkiest place in town." Here Grace Kelly announced her engagement to Prince Rainer; Hemingway and Louis Untermeyer had their famous fist fight (Untermeyer accused Hemingway of their famous fist fight); Hemingway took off his hat; and Louis Untermeyer had a famous banishment was that of Humphrey Bogart, who had the distinction of being the only man on record to say "You stink" to Sherm's face.

Today, the names and faces that made the Stork Club what it was have gone away or grown old. And the peculiar mixture of extravagance and frivolity that was the Stork Club's stock in trade is no longer wanted. When it was forced to close its doors last October, the club announced it would relocate. No one really believes it will.

The club is now within days of being completely demolished. The land that once supported the frenzied energy of café society will become a place of comfort and rest for the footsore and weary. CBS Chairman William S. Paley has set up the Greenpark Foundation to finance and maintain the park. The park, to be known as the Samuel Paley Plaza, after Paley's father, will be the first vest pocket park in midtown Manhattan.

The 42'x100' park, designed by the New York firm of Zion and Breen Associates (Robert Zion, partner-in-charge), will have 24 full-grown locust trees spaced at 10' intervals and running continually over a soothing respite to the cacophony of New York streets. Arches and mirrored paneling will be used on the side walls to increase the spaciousness of this tiny retreat. The park will also have a Philip Johnson-designed refreshment stand. Individual chairs, the steps, and low side walls will provide the seating for those who wish to linger. Paley hopes that, in the future, occasional concerts and art exhibits can be held here.

The cost of this project, which has been "sett aside for the enjoyment of the people of New York," is estimated at $1 million, with three-fourths of the money going for the purchase of the land. By June or July of this year, the park should be functioning on a full-time (8 A.M. to 10 P.M.) schedule.

**Mass Transit Gloria Mundi**

**NEW YORK, N.Y.** "We're trying out the Los Angeles method of transportation in New York," said New York architect William Conklin, speaking at P/A's 13th Annual Design Awards luncheon in Los Angeles. And although Conklin's jest drew a well-deserved laugh from his West Coast audience, it would probably not have fared so well in New York.
ing through a 10-hour long rush hour, its sidewalks overflowing with mobs of trudging pedestrians, its business concerns losing an estimated $20 million a day. Obviously, what New York does not need is Traffic Commissioner Henry Barnes’ suggestion for more parking garages. (One proposal calls for spending $34 million on them.) It is almost as if the automobile were a biological organism with a life of its own. Efforts to placate it, to make conditions more pleasant for it, only lead to its proliferation, the way rabbits multiply in a new cabbage patch.

New York’s problems are, of course, magnified by the compact area of its Manhattan business districts. While a single subway track can bring 60,000 persons per hour into Manhattan from Brooklyn or the Bronx, a single lane of the Lincoln Tunnel can bring in only 8,700 cars and buses in the same time, and a single lane of the East River Drive, only 3,300 private cars. But the greater efficiency of mass transit holds equally true for other urban centers, and slowly, belatedly, some of them are beginning to act on this truth.

Seattle, Los Angeles, Washington D.C., Detroit, and Atlanta have ambitious studies underway. San Francisco is translating its study for the Bay Area Rapid Transit District into steel rails and sleek rapid-transit cars. And although the program is currently embroiled in a gigantic political morass, it will probably be successful.

The New York transit strike, like any urban crisis, had its bright moments, visible only from a poststrike perspective. In a Brooklyn warehouse district at the foot of the Brooklyn Bridge, for example, commuters parked their cars on the sidewalks, before walking into Manhattan, giving the area a narrow-streeted, no-sidewalk European look. And outside Pennsylvania Station, policemen hailed passing motorists, had them give rides to pedestrians headed in the same direction. "What kind of a car do you want?" a policeman asked a young woman coming out of the station. "A Cadillac," she replied. "What color?" he asked. "Blue." He got her a ride. The car was not a Cadillac, but it was blue.

Ray Tucker, with Jacob Robbins as Professional Advisor, commended Mittelstadt’s solution for its visual strength and placement as a strong symbol of civic activity.

The architect’s solution (below, left) would indeed seem a strong enough building for a city that is yearning for symbols of action and power. But in a design that seems so blatantly a pastiche of Rudolphian, Corbusian, and Wrightian forms, one wonders about this city's individuality.

Olympic Facilities for Munich?

The model of the proposed area shows the Olympic Village housing in the foreground. Behind it, to the right, are the stadium and two halls. Behind these, at the upper right, will be a cycling stadium. And to the left, a radio tower and an ice-skating hall.

FREMONT GETS A CITY HALL

FREMONT, CALIF. The city of Fremont (population 90,000) has been looking for a city hall for all 10 years of her life. City officials did not take kindly to working in an old schoolhouse that had been condemned for educational purposes yet thought fit for governmental functions. But now things are looking up, and Fremont is getting a city hall.

In January of this year, the winner of the Fremont Civic-Cultural Competition was announced, and two weeks later the City Council unanimously approved the design of the building that will house the City Hall, the Hall of Justice, and other governmental offices on the 70-acre, water-bound civic center site. Winner out of a field of 66 entries is Robert J. Mittelstadt of Racine, Wis. The 31-year old Mittelstadt, who graduated from Yale in 1964, then captured the Prix de Rome fellowship for the following year, has worked in the offices of Harry Weese, Eero Saarinen & Associates, Paul Rudolph, and is now associated with The Architects Collaborative in Rome.

The jury (made up of Pietro Belluschi, Paul Rudolph, John Merrill, Lawrence Halprin, and...
It's Not Sleepy Time Down South

ATLANTA, GA. With the construction of a sizeable new baseball stadium (see P/A Observer), Atlanta is on the verge of acquiring a National League baseball team and the Big Time status that goes with it. In the eyes of many, however, Atlanta has been Big League for some time. While many other urban centers have lost initiative and vitality to outlying areas, Atlanta, with the help of a group of young, concerned business leaders, has managed to maintain a relatively flourishing downtown area, with a solid tax base. This vitality has grown considerably in the past few months, and an outside observer cannot help but feel that downtown Atlanta, now in the midst of a bold building boom, has prosperity, and perhaps even architectural distinction in its future.

With the building boom has come an awareness of good design. Several years ago, two downtown department stores—Rich's and Davison's—with the aid of pedestrian bridges across downtown streets, expanded their facilities. Rich's built an annex and connected it to the original store by a pedestrian bridge. Davison's did the same with a parking facility. Neither of these bridges was particularly handsome, and when architect-developer John Portman announced plans for a pedestrian bridge to link his Peachtree Center tower (1) with his Trailways bus terminal now under construction, controversy bloomed. In the course of it, the combatants discovered that Portman also had plans to connect his Gas Tower building (2), now under construction, with the Merchandise Mart, across Peachtree Street, the main thoroughfare, as sacred in Atlanta as the Champs Elysées is in Paris, and immediately the controversy had a focus. For a while, Atlanta's alderman considered an ordinance that would establish guidelines for overhead bridges. Writing in the Atlanta Journal, James H. Finch, a former president of the North Georgia Chapter, AIA, said: "I object to the private bridge solution for the following reasons:"

"First, Franklin Garrett, Atlanta historian, contends that our chaotic street pattern is the result of ill-advised granting of permits for new streets by early officials. These unfortunate decisions were based on official whim or pressure from powerful individuals or organizations. These influences still affect our planning and regulatory agencies. It would be regrettable if we compounded our disastrous street situation with an equally bad system of bridges.

"Second, if bridges are permitted to some, in fairness, it would be necessary to allow all to bridge. If we have numbers of bridges, past performance indicates that there will be many more ugly than handsome. We have enough ugly in Atlanta."

However, Paul Muldawer, chairman of the AIA chapter's Urban Design Committee, took this position in the Journal: "It is the opinion of the Urban Design Committee of the AIA, North Georgia chapter, that pedestrian bridges perform an important function in Atlanta's central business district and are vital to the city growth. . . . Pedestrian bridges allow downtown business facilities to expand beyond limiting street boundaries. If Rich's could not have expanded their downtown store by pedestrian bridge, they might have had to move to the suburbs. . . . Pedestrian bridges can give scale and identity to an area. . . . From below, pedestrian bridges can frame a view similar to looking through a window. As an architect, I would be alert to see that the city administration be extremely careful not to pass ordinances that may possibly set dangerous precedents which could inhibit or retard the growth of the central business district."

And the Atlanta Constitution, in an editorial entitled "Peachtree Street: Ribbons in Her Hair," had pointed out earlier: "Atlanta's aldermen are considering an ordinance that would establish rules for overhead bridges. Such proposals as establishing a minimum height above the street and paying the city for the air rights are sensible. But the ordinance should not be too specific about design details, since these should depend on the site and the buildings involved. We approve of a suggestion for having a nonpolitical rotating panel of professionals pass on proposed bridge designs on an individual basis."

To an extent, the furor has subsided. Portman is building one bridge (3), from the Trailways bus terminal to the Merchandise Mart, and plans a short connecting pedestrian bridge from the Peachtree Center tower to the Mart next door. The aldermen have passed no restricting ordinance. But if Atlanta was not too conscious of aesthetics before, she now shows signs of a growing awareness. The mayor has formed a committee to review Atlanta's entire downtown area. And the Peachtree Center Association, composed of the largest investors in the area, brought in Hideo Sasaki, Dawson, Demay Associates, Inc. of Boston to design landscaping for an eight-block downtown area. It looks as if Atlanta, unlike many cities throughout the country, is not content to wait until it is too late to take action.

Slowly I Turn...

NIAGARA FALLS, ONTARIO An old vaudeville routine, still seen occasionally on TV, has the straight man saying something to the comic about Niagara Falls. The words seem to trigger a complex change in the comic, transforming him into a monster bent on revenge. His eyelids droop, his hands become talons; he raises his arms and stalks the straight man, saying ominously, "Slowly I turn..."

Slowly turning 360° above Niagara Falls is a circular restaurant set on tapered concrete legs, in the tradition of Seattle's Space Needle. Completed recently, it is the fourth observation tower at the Falls and the third on the Canadian
complete revolution each hour, but the kitchen, located in the core, does not. Waitresses find their moving customers with the aid of color-coded table and chairs.

How Trivial Can You Get?

Evidently Trivia (see p. 52, January 1966 P/A) is played with as much zest in drafting rooms around the country as it is in the P/A editorial offices—and with greater accuracy. In response to our list of movies whose main characters were architects and the names of actors who played them, we were reminded that William Holden, not Barry Nelson, played the architect in the movie version of The Moon Is Blue. Correspondents also remembered that Henry Fonda was an architect in Twelve Angry Men.

Leslie R. Center, Jr., of Houston, wrote that the comic strip Mickey Finn currently has an architect in it. But that's a wholly different category: architects in comic strips. We can't think of any others. Can you?

Or Would You Rather Swing in a Crane?

NEWARK, N.J. After any major strike where the union members have obtained a significant wage increase, you hear talk in the drafting room, or at cocktail parties, that goes something like this: "Why are we wasting our time designing buildings when we could be making more money laying bricks?" Announced here recently was a three-year contract signed by Local 825 of the Operating Engineers (Crane Operators) Union, A.F.L.-C.I.O. It provides top wages of $7.75 an hour for large-crane operators, which is $16,120 a year based on a 40-hour week. Apprentices will get only $4.55 an hour, or $9464 a year. Of course, crane operators do not work all year. "Our employment is seasonal," says Peter W. Weber, president of Local 825, "and we are fortunate if we work four months of the year. Under the circumstances, a man has to make a decent wage." It looks as if, in New Jersey, they're well on their way.

$6 Million Adds Up to 287,000-sq-ft Math Building

WATERLOO, ONTARIO On the lower floor, behind its strong vertical structural elements, the Mathematics and Computer building for the University of Waterloo will house computer areas. Architects Webb, Zerafa, Menkes & Matthews designed these lower elements to reflect the large scale of the floor areas inside. This scale is reduced on the facade of the intermediate floors, which hold assembly areas and
Getting There Is Not Half the Fun

PITTSBURGH, PA. Setting the tone for the First International Conference on Urban Transportation, held here on February 1-3, was part of a luncheon benediction: "Bless us as we leave the city, and help us, O Lord, as we return."

An impressive roster of speakers from government, banking, industry, education, and architecture addressed almost 1300 attentive delegates looking for a way out of the traffic strangle.

Rapid transit (defined as public transportation on exclusive rights-of-way) held the spotlight. Problems were posed and suggestions made. What kind of system is best? How should it be financed? How about regional cooperation? Should public transit be free? What about labor and automation? Can't we get more out of what we have? And...how can the independent American be tempted out of his car and onto public transportation?

Several speakers said that the Federal Government should finance research and give aid to cities in trouble. Also, the Government should appoint a Secretary of Transportation to consolidate Government agencies whose functions now overlap. Cooperation between cities, counties, and states in regional planning was recognized as a must.

Megalopolitan centers urgently need revamping. It does not make much difference how renewed "downtown" may be if people cannot get to it from the suburbs, or move around in it after arriving. Charles Luckman, among others, suggested the "systems" approach to integrated planning of cities and transportation. This approach to problem analysis, which has proven so successful in the aerospace program, might be the answer for city/transit master planners.

In opting for rapid transit instead of more freeways, San Francisco leads the way toward better planning. The Bay Area Rapid Transit District expects to woo passengers with speed and comfort, although the system may not be as flexible or accessible as some planners would like.

It was generally agreed, however, that the automobile is here to stay and that the "right mix" of cars, buses, and trains is necessary. For city transportation, many speakers favored rubber tires and electric power for their noiseless, fuelless operation.

Planners are also keeping their eyes on high-speed intercity trains. Japan's Tokaido Line is an indication of what could be done in the U.S. Similar trains, travelling at 100 mph, will soon be connecting Boston, New York, and Washington, D.C.

Wheels or tires running on rails will probably dominate the rapid transit of the immediate future, but there were tantalizing hints of "far-out" ways of getting around.

MIT has been doing research on an air-cushion type of transportation. But Professor Miller of MIT sounded a rather discouraging, yet probably realistic, note. "Transportation is not receptive to change," he said. "Therefore, technology is not rushing in to develop the industry."

However, Westinghouse's new Skybus — automated, rubber-tired cars running on elevated tracks—was taking visitors around a two-mile track at South Park outside Pittsburgh. (See photo; P/A will publish a feature article on the system next month.) And an ancillary display by Teletrans, a company promoting automated, four-passenger tube cars with electromagnetic drive, showed a system that has been proposed for Detroit.

By way of a final flourish, Carnegie Tech announced the establishment of a Transportation Research Institute, which will be available to do research for just about anyone who needs it. It will also develop a transportation program at the graduate level. The staff will include representatives from the department of architecture.

At the end of the two-and-a-half day conference, one nameless gentleman kept repeating, "But who cares if you can move X number of people from A to B in Y time? Who cares?" We hope not too many feel so very overwhelmed.

Although self-interest on the part of Pittsburgh industry (U.S. Steel, Westinghouse, Alcoa, etc.) and the Chamber of Commerce (which sponsored the conference) was evident, the Golden Triangle City, long recognized for its interest in urban renewal, deserves a plaudit for giving a boost to transportation renewal.

The delegates went home not so much wiser in solutions, perhaps, but hopefully more aware of pitfalls and possibilities. And determined, we assume, to wean us from our cars.

U.N. School Plans Modified

UNITED NATIONS, N.Y. Since the time architects Harrison & Abramovitz released the model photo of their United Nations International School in late January (shown here), they have made several modifications. For one thing, the auditorium and gymnasium area that appears as a slab extending from beneath the left of the model is now a separately articulated unit, on that side, connected to the main building by a narrow neck. For another, the top floor is now cantilevered out beyond the floors beneath, which are set back at varying distances. And a student center has been added on the roof. Fifteen hundred students, from kindergarten through high school, will fill the building, with each section—high school, junior high, grade school—housed on a separate floor of the six-story structure.

To be built on filled land in the East River, about a mile south of the United Nations site, the school will replace a pier that is now being taken down. The city is leasing the
land to the U.N. for 99 years at a dollar per year. Construction costs will be met by the Ford Foundation ($7,500,000 for building and equipment) and the Rockefeller family ($1 million to prepare the landfill).

One of the nicest features of the site is that it will leave unsullied the open, landscaped lawns just to the north of the U.N. building, where the school was originally going to be located.

$40,100,000 was donated by Federal, state, and local governments, they set these records:
- Greatest total of gifts from corporations to an art center: $1,400,000.
- Largest donation from a foreign government to a single U.S. artistic institution: $250,000 from West Germany.
- Largest total of gifts from individuals to a single artistic institution: $50 million.
- Largest foundation grant to an artistic institution: $25 million (Ford Foundation).
- Largest total of gifts from foundations to an artistic institution: $10,100,000.
- Largest donation from a foreign government to a single U.S. artistic institution: $2,500,000 from West Germany.

Moreover, fund-raising costs have been held to 1.25 percent of the total raised, less than the interest earned by short-term investment of the funds awaiting use.

Lincoln Center, Francis says, "has been privileged to pioneer a wholly new concept which had been widely adopted as an example of community development of cultural resources." Last month, some 35 communities throughout the U.S. with performing art centers in the building or planning stage, and 70 others with civic center projects under way that make provisions for the performing arts, were watching Lincoln Center's unusual performance.

NEW YORK, N.Y. With the scheduled opening of Wallace K. Harrison's Metropolitan Opera at Lincoln Center only six months away, it looks as if the Lincoln Center's financing is also nearing completion. One other structure is still to be built, of course: The Juilliard School of Music. And there are rumblings about possible need for executive space for the center, and dormitories for Juilliard. But at least temporarily, with $165,400,000 in the capital fund, the budget seems fulfilled—or nearly so. Still needed, according to current goals, is $1,400,000.

In 1957, when Clarence Francis (shown), chairman of the campaign committee, went to work, the goal was $75 million. But building costs, like any other mirage, are never quite what they seem to be.

Even then, though, the goal was one that gave lesser men much apparent cause for concern. No such sum had ever been raised philanthropically for the arts, and indeed the performing arts were in what appeared to be a TV-caused slump. Francis and his group of volunteer fund raisers, in spite of the odds, or perhaps by way of disproving them, turned in what is surely Lincoln Center's finest performance so far.

On their way to raising funds for what one periodical called "the nation's most extraordinary urban renewal project" (because the land was acquired through urban renewal machinery and because New York," would have been pleased. Sometime before his death in 1875, he bought the old Medref Eden Farm for $34,000. And many thought him a fool for investing in land that far uptown. In 1904, $8 million of Astor money went to build a hotel on the old farm land, designed by Clinton & Russell in the French Renaissance style. When the Astor opened its doors (one for women and one for men), the rich, the established, and the well-known of New York flocked in to see the 22'-high gold and marble lobby colonnade, the 14,000 electric bulbs (making it the "most electrified hotel of 1904"), and the largest ball and banquet room in the country (maximum: 2500 dinners at one time). More than 15 million guests have stayed at the Astor since it opened. By the end of 1966, the last guest will have left. The hotel's sale and the pro-
posed construction of an office building has been greeted with favor by West Side businessmen. Apart from the Allied Chemical Corporation's remodeling of the Times Tower, the office building will be the only major building project in the area for 39 years. Already an "astonishing expression" of interest has come from prospective tenants. Minskoff will have a full house.

But the Astor—the thirty-third New York hotel to close down since World War II—is more than real estate and per­sq-ft income. In the past, it was a generator of energy, interest, and life in the Times Square area. Without it, the Square will not be the same.

Interama Revived Again

MIAMI, FLA. If current plans mean anything, Miami will have an Inter-American Trade and Cultural Center, a sort of permanent, limited-scale World's Fair by the end of 1967. To be known as Interama, the project is being promoted by Dr. Irving Muskat, an erstwhile scientist, who took over active leadership of the project (which has been talked about in one form or another since 1918) in 1961. Now backed by funds from a private bond issue which raised about $20 million, plus a Federal-Government-approved loan (through the Community Facilities Administration) of approximately $22 million, work has been done in arranging the land, 680 acres of swampland north of Miami Beach.

Also under discussion are plans for six pavilions in Interama's International Area to be designed by six leading architectural firms. All architectural work is being coordinated by Miami architect Robert B. Browne, who has engaged Marcel Breuer, José Luis Sert, Louis I. Kahn, Harry Weese, Paul Rudolph, and Edward Durrell Stone. Stone will design the $4.4 million U.S. pavilion. Breuer will be architect for the Eastern Group's (Brazil, Argentina, Uruguay and Paraguay) pavilion. Sert will design the Western Group pavilion, budgeted at $2.6 million, to house the exhibits of Venezuela, Columbia, Peru, Chile, and Bolivia. Kahn is handling the Central Group $2.4 million pavilion (Mexico, Panama, Guatemala, Honduras, San Salvador, Costa Rica and Nicaragua). The Caribbean pavilion (Jamaica, Haiti, Santo Domingo, Trinidad, and Tobago), at $1.1 million, is being done by Weese. And Rudolph has contracted to design a $2.4 million all-nations bazaar.

Browne's job is to do the site plan (shown here), to handle landscaping, and get the architects to cooperate. This last seems a highly difficult task, but Browne is confident that the six highly individualistic architects he has commissioned will produce a "harmonious juxtaposition of harmonious buildings." He has already conducted several meetings among them and told P/A that progress is being made. All have agreed to work in white concrete.

Recently, the U.S. Senate approved a $9.3 million Federal contribution to the project. It seems that, two years ago, LBJ, in an "incidental" helicopter flight over the swamp site, casually said he liked the idea.

THE SKIN TRADE

1961, Wright's problem was that he had no plans from which to work. Months of architectural detective work turned up only three documents that could be useful: an 1850 woodcut perspective, a sheet of dimensions of the "New North Church," signed by Bulfinch, and a Study Perspective of the interior. The rest of what Wright needed to know turned up only as workmen began stripping off the outer skin that had been added in 1862. Some of the original finish still clung to the wide boards Bulfinch originally used. Beneath the wood onion dome of the spire was the original Paul Revere copper dome. Some of the original window frames were still intact and so were a few of the original sash. Old hand-forged nails in the brickwork gave clues about Bulfinch's applied balustrades.

Underneath what Wright calls the "horribly over-colonized main entrance" was the outline of the original doorway. And on either side of it, two original entrances, complete with their doors, were found bricked up. The traceability of original millings and muntins was found in spite of mutilation by substitutions.

Inside, workmen restored the ornately painted ceilings and walls to their original oyster white. The flat arches between Bulfinch's original column caps were removed. And original paneling, hidden behind 20th-Century wood and plywood, was restored. Bulfinch used only three basic moldings, varying in their size and ar-
The Fifth Kling for Norfolk

NORFOLK, VA. Five years ago, this city embarked on a civic venture with Philadelphia architect Vincent G. Kling. Five Kling-designed civic buildings now stand on the 17.4-acre site set aside for the $15 million Civic Center: a Public Safety Building; a two-story Corporation Courts Building; a Utility Building; a one-story Public Services Building; and—a largest so far—a 14-story Municipal Office Building (shown here adjoining the Public Services Building at ground level).

The unique feature of the building is its window wall treatment of the 10 office floors, which cantilever over the two-story lobby base but come to a sad end with a rather heavily handled mechanical and electrical core at top. The air convection between the two glass layers, "reduce the solar load so that the result is the equivalent of a building with only 40 per cent glass."

Also associated in the design of the Norfolk Civic Center are Oliver & Smith of Norfolk, Associated Architects; Fraioli, Blum & Yesselman of Norfolk, Consulting Engineers; Charles S. Leopold, Inc., of Philadelphia, Consulting Engineers; and Ebasco Services, Inc., of New York, Space Planning Consultants.

Mediterranean on the Pacific

LAGUNA BEACH, CALIF. Sprawling down a steep hillside to the Pacific, these 16 duplex apartments reproduce a little of the effect of a Mediterranean seacoast town. Their white stucco exteriors help this effect, and does the sculptural quality of their arrangement.

Terraces, both public and private, wind through the units binding them together visually and physically. These terraces and steps also provide visual relief from the vast expanse of the Pacific, which all the units face.

Known as Los Ocho, the $270,000 project is the brainchild of eight Los Angeles actors, writers, and directors, who own eight of the units. The other eight will be sold as condominiums.

Architect is Edwin L. Fields, Beverly Hills, Calif.

Eavesdroppings

"For five years, architects are taught in most schools to regard themselves as mini-Mieses, given unlikely problems and the minimum of contact with the site. They are then thrown out on a market where they can earn good money in planfactories with little creative work, or they pour out their souls and build five houses in a

Continued on page 62

March 1966
AMERICAN FLETCHER NATIONAL BANK, INDIANAPOLIS.

Quartette's wall-to-wall installation covers 35,000 sq. ft. second floor of Operations Center. All-electric building utilizes heat-of-light for space heating. Provides uninterrupted "outdoor sky" of glare free, 450 footcandles lighting over all general office areas, data processing enclosures and private offices; efficient exchange of cooled or heated conditioned air in each office space; finest overall acoustical absorption and attenuation.


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decade. The result, very often, is an addled person producing addled architecture." Ian Nairn, "Stop the Architects Now," The Observer, February 13, 1966.

"On more than one occasion, a speaker has resorted to the earliest statement which we have on record. This statement goes back to classical times when Athens was in full flower, and the pledge of its citizens, taken a thousand years ago, has even a greater meaning for us today. "We shall never bring disgrace to our city; we shall fight for the ideas and sacred things of the city; we shall revere and obey its laws; we shall strive unceasingly to quicken the public sense of civic duty that in all these ways we may pass on this city, greater, better, more beautiful than it came to us." Kenneth B. Smith at the Stratford Seminar on Civic Design.

"Architects, engineers, and scientists are all what I call slave professions. They don't go work unless they have a patron. But architects are the most slavish of all, and they work under a system that hasn't changed since the time of the Pharaohs. When you're an architect, the patron tells you where he's going to build, and here are the zoning regulations, and here's Sweet's catalogue. I don't want anything special outside of it. So the architect is really just a tasteful purchasing agent. He discovers he's inherited a skeleton frame and guts, and all he can do is put in exterior decorating." Buckminster Fuller, quoted in The New Yorker.

Haughwout Wins Out

NEW YORK, N.Y. Charles MacKay, in his Life and Liberty in America or Sketches of a Tour in the United States and Canada in 1857-58, was overwhelmed with Broadway, its bustle and beauty. He especially admired a building that gave "its most imposing character to this busy and beautiful street." "The iron palace," as he called it, commonly known as the E.V. Haughwout Building (pp. 133-135, February 1958 P/A) still stands today—one of the finest examples of cast iron architecture and possibly the first building in America to use the safety elevator. The Venetian-Renaissance styled and J. P. Gaynor-designed Haughwout Building may have added another distinction to its list by being the first to cross New York's Robert Moses, chairman of the Triborough Bridge and Tunnel Authority. The building has been named a landmark by the city, which designation has been upheld by the Board of Estimate. Moses had appealed to the Board to "take no action" on this, as "these premises are directly in the right of way for the Lower Manhattan Expressway." It looks as though the highly controversial Expressway, Robert Moses' baby—in the making since the mid-40's—may have a longer wait yet.

Onward and Upward

LOS ANGELES, CALIF. Right across the street from the Los Angeles Music Center (see pp. 46-48, January 1965 P/A) stands the recently completed 17-story headquarters of the Los Angeles Department of Water and Power. With today's push to integration, buildings as disparate in purpose as these can be next-door neighbors and scarcely raise an eyebrow. But, architecturally, the Water Works upstages the Music Center. Not only is it a cleaner, less frivolous building, but it has a better site with room for a pleasing reflecting pool. This pool, with its eight fountains, surrounds the building, carries one-third of the building's air-conditioning load, and serves as a roof for a three-level parking garage for 2300 cars.

The building's 880,000 sq ft gross floor area is heated by bootstrap heating; heat from the lighting fixtures is captured and circulated. Constructed at a cost of $32 million, the building provides office space for 3200 employees and is said to have sufficient space to house 4300, the department's estimated headquarters work force by 1990.

Architects were Albert C. Martin & Associates.
Macomber does a lot of little things to help architects and builders do a better job... for example:

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SUBSIDIARY OF SHARON STEEL CORPORATION
Detroit, Mich. Too often, the only consideration given the elderly in housing built for them is in the name. These projects usually have names that say something about Senior Citizens or Golden Years, and site plans that include too many steps.

Soon to open near the heart of downtown Detroit is a 22-story apartment house for the elderly that provides more than a token offering for the comfort of its aging tenants. What makes the building distinctive, in an era too addicted to institutional-looking housing for the aged, is not only its site, which is adjacent to a park and a small lake, and its handsome facade, but also its carefully thought-out interior. The floors of public halls and bathrooms are of nonskid ceramic tile and all have handrails and grab-bars. All doors are wheelchair-width. And elevators, which service all floors including the basement-level parking facilities, have doors timed for delayed starts and are wide enough to accommodate wheelchairs and walkers. Each floor has seating at elevator lobbies and two laundry facilities.

The building will contain 264 apartments, either studio or one bedroom, each with floor-to-ceiling glass and balconies overlooking Detroit and the park. Architects John P. Morgan & Associates plan a snack bar in the lobby and community rooms in the basement of the building, an area completely surrounded by a 15'-wide sunken garden court. Entrance to the lobby is via a bridge across this court.

Japanese-American Church

LOS ANGELES, CALIF. Using the traditional form of the Japanese temple, but substituting two precast, post-tensioned concrete beams for wooden roof beams, the firm of Kajima International, Inc., has fashioned the Seicho-No-Ie Church for a Japanese religious organization in Gardena, California. Almost completed, at a cost of $200,000, the church will seat 300 in its main assembly hall and have classrooms in its half basement. Engineers are Moffatt & Nichol, of Long Beach.

The Day of the Hexagon

Ponce, P.R. Puerto Rico has many attractions, but until last December, major art museums were not among them. Now there is one, in Ponce, the island's second largest city, 75 miles from San Juan. Ponce is the hometown of financier and philanthropist Luis E. Ferré, who, feeling the lack of adequate museum facilities, in 1959 asked Edward Durell Stone to design such a structure. The result is a multipur-
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FLIP TOPS

On Readers' Service Card, circle No. 335

March 1966
AIA's Citation for Excellence in Community Architecture...

The Hawaii Chapter, AIA, also gave honor awards for outstanding architecture to John P. Tatton and the firm of Lemmon, Freeth, Haines & Jones.

Roney Plaza Coming Down
MIAMI BEACH, FLA. The grand dame of Miami Beach hotels is coming down. Developer Harry Mufson has announced plans to begin demolition of the Roney this summer to make way for a $25 million resort hotel to open in November of 1967. The new 600-room hotel will, he says, be "the most sophisticated resort complex in the world." Such a statement should rock the palms and fuchsias of the 40-year-old Roney. After all, with 280 rooms (one of which, the Presidential Suite, boasts a terrace large enough to accommodate 150 people for cocktails), 1300' of ocean-frontage and six acres of gardens and landscaping (which, thoughtfully enough, will be preserved), the Roney was not exactly dull.

Mountain Greenery College

Awards

Architect Howard Ashley of Kuala Lumpur, Malaya, has been selected to receive the Pan Pacific Architectural Citation of the Hawaii Chapter, AIA. The city of Charleston, S. C., has received the

Competitions
Royalmetal Corporation has launched its 1966 student competition for the design of a general office for eight people with an adjoining reception area. Entries must be in by April 30, and should be mailed to Royalmetal Corporation, Dept. ODC, 1 Park Ave., New York 16, N. Y. The deadline for the NIAE- and Pittsburgh Plate Glass-sponsored competition is April 22. This year's theme is "The Image of a State—A Hospitality Center on a Turnpike." Entry forms and further information are available from the National Institute for Architectural Education, 115 E. 40th St., New York 16, N. Y.

Obituaries

James Ruderman, structural engineer whose work totaled more than 40 million sq. ft. of space in New York City, died there on January 27 at the age of 67. So many of his steel-framed buildings lined Park Avenue that it was often called "Ru(e) der man Boulevard."

BENT, ORE. Hard by the Cascade Mountains on the Deschutes River in central Oregon, the town of Bend (population: 11,409) stands firmly on its bed of solid volcanic rock. Besides the sawmills and furniture factories, the town has, since 1949, been the home of Central Oregon College. The college, lacking adequate space and facilities, has not fared well. (At one time, full-time student enrollment was down to one.) Today, Central Oregon College enrollment is up to 400. Instead of using the Bend High School rooms at night, COC, with the help of state and Federal funds, now has 145 acres on the west slope of Awbrey Butte with four new classroom buildings, an administration building, a student...
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WASHINGTON/FINANCIAL NEWS

BY E. E. HALMOS

There's a real possibility that the President's much-cherished "beautification" program for highways may result in a cover-up with figurative chintz and a little Ivy—and very little else.

With the exception of a few forlorn voices, the emphasis seems to be on covering everything in sight with trees, flowers, and shrubbery. There's no stress at all on the possibilities of beauty inherent in design of roads and the structures that are part of them. The idea seems to be that the road itself must be somehow hidden from view behind a screen of greenery, rather than being made an integral part of its surroundings.

Of course, nobody denies the value of shrubbery, or extols the beauties of most advertising signboards, or argues that obnoxious things should not be removed or hidden. Only trouble is the almost total neglect of what the Government will or can spend to bring the trees-flowers-shrubs-and-grass concept that seems to have taken over the program now.

Public Library Expansion Likely

Little noted in the crush of more spectacular items occupying Congressional attention these days is the probably successful move (embodied in S.2802 and HR 12133) that would continue and expand the 10-year-old Library Services Act, which expires officially on June 30.

The program under this act has been a relatively quiet one, but it has involved considerable construction work, as well as made available funds for purchase of books, hiring of professional personnel, and expansion of library services.

In the extension bills now before both Houses, funds would be set aside for construction of library facilities: $75 million for (fiscal year) 1967, $100 million for 1968, and $125 million in both 1969 and 1970. Allocation of these funds is based on a Government report that indicates existing libraries need an additional 40,500,000 sq ft of space—at an estimated cost of $941 million—to meet public calls on their services this year.

National Budget: Fact and Fiction

Asusual, the annual budget presented to Congress in late January is up for consideration and debate. And, again as usual, it doesn't have too much relation to the actual bills that will be presented to the taxpayer.

That is not in many ways, the President's fault, but the result of Uncle Sam's very peculiar bookkeeping methods, which take no account of what he is obligated to spend, but only of actual present expenditures.

Thus, the President sought appropriations of $112,800,000,000. But the real measure of what the Government will or can spend is to be found in his requests for "New Obligational Authority" (NOA)—a sort of blank check from Congress authorizing future spending. If you add up these requests, they amount to more than $145 billion. And, added to more than $106 billion of "NOA" not used in previous years, it could yield an authorized spending total of nearly $251 billion.

The cuts and stretch-outs of Federal programs will have some long-range effect on funds available for construction. Unless the situation in Southeast Asia changes radically, however, the effect on building won't be felt this year.

Funds For Government Building

For construction (and planning) of facilities, the budgeted total amounts to nearly $10 billion (this includes new Government buildings for many agencies, assistance grants for various public works projects, and highways). If you add to this funds for continuing programs such as housing and urban renewal now taken over by the Housing and Urban Development Department and others, the total comes out to something close to $17 billion—very little below the figure a year ago.

Some few cuts and slowdowns are apparent in some of the programs, particularly in the matter of the already announced cut in military housing (down $100 million to $544 million); and in aid to "impacted" schools (where children of Federal employees put an overload on local districts), which will be cut from $397 million in 1966 to $206 million for the next fiscal year.

But the General Services Administration program for 33 new Federal buildings, and the design of 10 more—to cost $262 million in the next year—was not cut. (Neither was the Army Corps of Engineers' request for $967 million for flood control and other work.)

More Taxes

Most distasteful part of the budget message—to election-minded Congressmen—was the call for new or reimposed taxes to produce an additional $4,800,000 in revenues to support the President's hope for a smaller deficit.

Research Into Residential Walls

Through its wholly owned Research Foundation, the National Association of Home Builders has embarked on an...
ambitious research project that will serve as a basis for performance standards for load-bearing and non-load-bearing walls (interior) for residential use.

First step will be a search of any existing literature related to interior walls, including findings of manufacturers and universities, as well as any other research that may not have been published generally. Hope is to produce a mathematically expressed performance standard; and develop, or adapt, any needed new standard test methods to measure performance of walls.

Financial

Biggest exercise for anyone concerned with the construction industry this month continues to be study of the enormous Federal budget, and, particularly, of Congress' reaction to it. With more than $9,800,000,000 in direct appropriations for construction, plus perhaps $7 billion in loans and other programs that foster construction, a lot of the industry's business rides on what happens next. As March began, Congressional hearings had given no indication that the lawmakers would make any drastic change in plans in this area.

Despite a last-minute spurt in the number of "starts," the housing field, as expected, lagged behind totals for the previous year. Census Bureau estimates a total of 1,500,000 new, privately owned housing units were started in 1965—down 3 per cent from 1964. Possibly because of mild weather in some areas of the U.S., December starts jumped to 101,000, compared to 96,700 in 1964.

Nobody should ignore the contribution of state and local governments to the construction economy. According to the Commerce Department, in the 12 months ended in September 1965, these groups spent $17,400,000 on construction. And there are numerous indications that the spending rate has increased.

So far, there's little indication that recent increases in interest rates on loans have tightened money available for construction. One indicator seemed to suggest quite the contrary: FHA said its application volume was a record 1,100,000 in 1965.

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Brains for Buildings

Computers can now take over complete control of mechanical and electrical systems for large buildings. Centralized equipment for monitoring and adjusting all services will be installed for the first time in Main Place, a complex of buildings under construction in Dallas, Texas.

The Dallas system is one of four recently developed by Honeywell to handle the control of any project from a high-rise office building to a 40-building network.

All four systems are built around a compact console (4' x 4' x 2' deep). From this console, an operator can "lock in" on as many as 250 systems with 10 or more checkpoints each. When the desired system is located by means of a pushbutton code, its schematic is projected on a screen. The selected system can then be turned off or on, temperature set point adjusted, or damper position changed. Only one set of switches for temperature set point and damper position is required on the central panel. Two-way intercom, digital clock, and an alarm annunciator are built into the console.

System 10, least automated of the four, controls up to 100 systems. It can tell actual temperature set points and damper positions, and operator can make adjustments. A solid-state scanner alerts operator to off-normal conditions with an audible alarm and then prints out information. A multichannel recorder can automatically record temperatures for making system analyses or to observe trends.

System 11 is similar to the 10 but is equipped with a memory; automatic off-on programming is optional.

System 20 has what Honeywell calls "cerebral centralization," and is all solid state. It has off-on programming, a digital computer for high-speed data acquisition, and digital computer for summing up variables, such as energy totals, on the run. It is capable of operating up to 250 remote mechanical systems with 10 or more checkpoints each and can scan up to 10,000 points per minute. Critical points are examined more frequently. Two electric printers offer uninterrupted logging of information on points scanned at set intervals, plus alarm readings noting time, type, location, and value.

Air/Temperature

Big Boiler

Commercial gas-fired copper hydronic boiler has capacity of 670,000 Btu/h. Dual temperature controls and dual gas valves prevent waste heat by dropping gas input to 40% of capacity when water temperature approaches set point. Largest in manufacturer's commercial hydronic line, the boiler weighs 330 lb when full of water. A. O. Smith Corp., Kankakee, Ill.

Air Curtains for Industry

Cold air is stopped at open doors in plants and warehouses by air heated by steam or hot water coil units or direct gas-fired burners. In summer, "Miniweil" can be used to reduce inflow of hot, humid air from outside. Berner Industries, Inc., New Castle, Pa.

Construction

White Masonry Cement

White cement, designed for mixing masonry mortar, will not stain limestone blocks or panels. Colored mortar can be made by adding pigments to the white masonry cement. White masonry cement contains gypsum to regulate setting time; an air entraining agent to provide plasticity, water retention, and durability in the mortar mix; and a water repellent additive. Universal Atlas Cement, Div., of United States Steel Corp., 10 Park Ave., New York, N.Y. 10017.

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ish are made to order. Shelby Corp., East Smiley Ave., Shelby, Ohio. 44875.

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“Diamond Dust” or “Tinsel” irregularly shaped glass flakes are used for light-reflecting effects on cement or asphalt walks and patios; building façades; and walls, ceilings, and other interior applications. Flakes are available in sizes ranging from .0037” to .139”. Material can be sprayed or dusted on the surface of cement or plaster while it is still wet; secured to walls, ceilings, or other surfaces with standard, commercially available adhesives. Flake colors are red, green, blue, silver, yellow, copper, and clear. All colors are bleedproof and fade-resistant. Permafrost Corp., P.O. Box 569, West Caldwell, N.J. 07007.

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Silicone rubber material vulcanizes to a flexible concrete-like substance. It is weather-resistant, and, with a primer, may be used as a protective coating over concrete, steel, or wood. “Silicone Traffic Topping” is recommended to be trowelled onto horizontal surfaces, and may also be used as a grout for tile and stone, or to repair cracks. It is available in fade-resistant colors. General Electric, Silicone Products Dept., Waterford, N. Y.

Temporary Furniture

Ideal for toys, books, soft goods, and all sorts of paraphernalia, is Design Workshop’s functional, low-cost (retail: $10), disposable storage system. The system is composed of six 12” rigid craft-board modules (white) with three removable shelves and supporting struts of colorful plastic; it is easily assembled.

Don’t Bug Me!

Plastic lens “hides” light of ordinary incandescent bulbs from insects. White light from post and portable fixtures using lens, apparently cannot be seen by insects, thus eliminating their swarming around outdoor fixtures. Meredith Separator Co., 707 Helmers Ave., Cleveland, Mo. 64734.

Furnishings

The Perfect Couples

Two recent marriages in the vinyl wall-covering field are Durawall’s Suwilde and Vyn­ dura with “Tedlar,” DuPont’s nonstainable coating. In addition to the many textures and colors offered, the manufacturer claims almost every de-
Portable Exhibits

Aluminum telescoping legs and 2' x 4' foam-plastic panels permit fast showing of photos, posters, etc. (which are stapled on beforehand). The units, which are obtainable in any number of panels and legs, can be formed into a convention booth or island, and into wall-covering displays. Each unit weighs less than 4 lb, and all units fit into a carrying case 2' x 4' that is easily portable. Porta-Panel, 12 E. Grand, Chicago, Ill.

On Readers' Service Card, Circle 116

Folded Rhythms

Architect Alden Dow has designed a group of printed drapery fabrics based on rhythmic repetition of geometric elements. The designs are silk screened on linens, Sarans, and cottons in open and closed weaves; colors are formulated to designers' needs. Samples on request. Edwin Raphael Co., Inc., Infinity Lane, Holland, Mich.

On Readers' Service Card, Circle 119

Veil of Tears

Among a series of molded-and-pierced, lightweight panels is one that is a new interpretation, in new materials, of ancient imbrication—"Teardrop" (illustrated). Panels are usable both outdoors and indoors and are finished on edges and both sides. Approximately 2' square, they vary in thickness from 3/16" to 1 1/16" and weigh from 2-2/3 lbs to 8 1/2 lbs. Galway, Inc., Contract Div., 320 W. Ohio St., Chicago, Ill.

On Readers' Service Card, Circle 120

Sanitation/Plumbing

A Three-Wall Stall

Fiberglass shower stall consists of floor, three walls, and seat molded into 60"-wide by 75"-high unit. Steam-free construction prevents water leakage; available in six colors. Universal-Rundle Corp., New Castle, Pa.

On Readers' Service Card, Circle 121

Self-Seal Sink...

... fits directly over countertop. Eliminating metal trim means faster, more economical installation. Available in single or double compartments in several colors of enamelled iron. Kohler Co., Kohler, Wis.

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Red Hot/Cold Blue

Color disc in lavatory and shower faucets shows red for hot water, blue for cold and part red, part blue for mixed temperatures. A single push-pull acrylic dial controls on and off. Fixtures in solid brass with chromium finish. Speakman Co., Wilmington, Del.

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Services

Translucent Hangar Doors

Vinyl-nylon sandwich doors let light into airplane hangars, are said to be secure in winds up to 80 knots and unaffected by extreme temperatures. Electric motors roll 90' x 25' doors up or down in two minutes. Quiet operation, freedom from jamming due to ground heave, small storage space, and economy are said to be some of the advantages. Shown is installation at Cincinnati Lunken Air Transportation Center (doors closed). R.L. Kuss & Co., Findlay, Ohio.

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Walls of Glass and Epoxy

Chunks of stained glass are embedded in a matrix epoxy
LEAD establishes a new sound barrier

Today, foreign sounds invading your privacy need not be tolerated in office or factory. Thin-sheet lead, used as a plenum or over-ceiling barrier effectively reduces noise transmission from one area to another. Tests have confirmed that thin-sheet lead used as a plenum sound barrier as in the State Street Bank’s new Boston headquarters (illustrated below) is acoustically superior to any other conventional building material.

The movable partitions in this $30-million concrete and glass tower were terminated at a hung ceiling height, creating a plenum space immediately above. Then, thin sheets of non-porous, naturally limp lead were hung from the slab and dropped to the partitions below. The result was unmatched sound attenuation, substantially reducing the transmission of air-borne noise. And thin-sheet lead is workable... cuts easily simplifying installation around ducts, piping and conduits. Furthermore, lead is economical and salvageable.


LEAD INDUSTRIES ASSOCIATION, INC.


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resin for church window-wall panels. Cast glass (approximately 1" thick) is chipped or facets on interior face to disperse light passing through window. Set in modular steel frames, the glass and epoxy binding are reinforced with steel rods. Conrad Schmitt Studios Inc., 1325 S. 43 St., Milwaukee, Wis. 53214.

**Executive Touch**

"Victor 3900" electronic calculator can add, multiply, subtract, or divide. The calculations and results show on a 4" x 2 1/2" illuminated screen that can accommodate 20-digit figures. The machine features five display registers: three calculating registers show the two factors and the result in the lower three rows in logical sequence; two storage registers hold running totals, or constants for repeated use. Another feature is an automatic round-off/drop-off that provides accurate answers to whatever decimal place is selected up to 15 before dropping unwanted decimal places. Weighs 25 lb. Victor Comptometer Corp., 3900 North Rockwell St., Chicago, Il. 60618.

**Safety Mat for Playground Equipment**

"Safety-Surf," a 1"-thick interlocking rubber matting, provides permanent, maintenance-free installation beneath playground equipment, says the manufacturer. A waffle-like network of honeycombed ribbing on the underside of the matting absorbs impact of children's bodies. Safety-surf is available in 2' squares, and can be installed with recessed bolts over any hard-surfaced base. Matting is non-toxic and cannot harbor rodents or insects. Mitchell Rubber Products, 2120 San Fernando Rd., Los Angeles 35, Calif.

**New Math—Electronic Style**

"Deluxe Heavy Duty Nylon-On-Vinyl Matting" is a 100 per cent cut-pile nylon, permanently bonded to a 1/4"-thick vinyl backing. Cut-pile nylon is nonflammable, does not catch high heels or spiked shoes, and is easily cleaned. Matting does not break, crack, rot, or become brittle; it is said not to be affected by grease or chemicals. Gray or beige tweed striped or red tweed designs are available in 34", 46", or 70" widths and in any length up to 30'. Matting has flushed finished edges and no borders. R. C. Musson Rubber Co., Akron, Ohio. 44306.

**Surfacing**

"Par" spike-resistant carpeting, designed especially for country-club locker rooms, bars, and pro and coffee shops, meets the challenge of spiked golf shoes. Sheared virgin nylon is fused to an extra-tough 1/4" vinyl base; the carpet rebuffs dirt, as well as spikes. "Par" is available in three tweed colors: beige, gray, and red in roll lengths up to 90'. International Rubber Corporation, 83 High St., Boston, Mass.

**Step Softly**

Three-layer vinyl flooring has foamed vinyl cushion back for comfort, noise reduction, and warmth. Top layer is inlaid vinyl chips, and second layer is glass fiber to protect against dents from furniture or sharp heels. Noise reduction is said to be considerable. 8 colors. Armstrong Cork Co., Lancaster, Pa.
HAVE A HILLYARD ARCHITECTURAL CONSULTANT DETAIL SPECIFICATIONS ON TROPHY® GYM FLOOR FINISHING

DESCRIPTION: A seal and a finish specially formulated for wood gymnasium floors to give a light, durable, slip resistant playing surface that will resist rubber burning and marking.

SPECIFICATION AND HOW TO APPLY: An epoxy seal and finish. Apply with lambwool applicator. Seal coat fills porous wood surface. Additional seal coat may be required on highly porous wood. Game markings, using Hillyard Gym line paint, are painted in before finish coats are applied. Two finish coats are required. See Sweets Arch. File for detailed specification.

COVERAGE (Average): Trophy Seal - 350 sq. ft. per gallon. Trophy Finish - 500 sq. ft. per gallon.


Non-darkening—eliminates need for removing or sanding off finish for 10-15 years.

GUARANTEE: Controlled uniformity. Vacuum-packed. When applied according to directions and under supervision of a Hillyard representative, all claims for the product are guaranteed—provided containers are received at job site with factory seal unbroken.

MAINTENANCE: Regular treatment with Hillyard Super Hil-Tone dressing for conditioning and dust control.

APPROVALS: Maple Flooring Mfrs. Assn., Institutional Research Council. Listed by Underwriters' Laboratories as “slip resistant”. In use: 12 years on all major basketball tournament floors.

REFERENCES: Sweets Architectural File, section 13n

A.L.A. File No. 25G
A.L.A. Building Products Register

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On Readers’ Service Card, circle No. 452
For gymnasiums, stages, shop floors, bakeries, manufacturing plants

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MANUFACTURERS' DATA

Air/Temperature

Fin-Coil Units

Two-part booklet covers fin-coil units constructed of copper tubes and aluminum or copper fins for systems using: (1) water for heating and cooling; and (2) R-12 or R-22 refrigerant for cooling and dehumidifying. Booklet contains photos, comprehensive charts, graphs, and tables giving performance and selection data, and information on installation and maintenance. 60 pages. Westinghouse Electric Corp., Sturtevant Div., Hyde Park, Boston, Mass. 02136. On Readers' Service Card, Circle 200

Plexiglass For Lighting

Revised and expanded design data by Rohm & Haas discusses physical and optical characteristics of Plexiglass. Booklet gives tables on physical properties, sheet sizes and thicknesses for translucent, transparent, and patterned sheets; transmittance and distribution curves and coefficients of utilization are given for fixture diffusers. Booklet discusses museum lighting and luminous-ceiling design. 44 pages. Rohm & Haas, Philadelphia, Pa. 19105. On Readers' Service Card, Circle 201

Copper Flashing

Four types of copper flashing are described in a 16-page booklet: (1) through-wall interlocking system with bonding ribs; (2) two-piece cap flashing—one member laid in wall and second member snapped in after roofing; (3) two-piece reglet system—reglet attached to wood form before pouring of concrete inner walls; (4) lightweight wrought copper, laminated both sides to polyethylene film. First three systems are ribbed; fourth is smooth surface. (Sample is attached to booklet.) Installation details, specs, photos, and explanatory text. Revere Copper and Brass Inc., 230 Park Ave., New York, N.Y. 10017. On Readers' Service Card, Circle 202

Glazed Concrete Blocks

Brochure gives color charts, available shapes and sizes, and construction details for two series of glazed lightweight concrete blocks: Functional Series and Design Series. The latter includes scored faces, concave and convex surface patterns, and monogrammed blocks. 16 pages. The Burns & Russell Co., P.O. Box 6063, Baltimore, Md., 21231. On Readers' Service Card, Circle 203

Construction

Redwood Story

Photos illustrate varied use of redwood siding in residential work. Pamphlet describes redwood grades, finishes, and siding patterns. California Redwood Assn., 617 Montgomery St., San Francisco, Calif. 94111. On Readers' Service Card, Circle 204

Expansion Joint

Pamphlet illustrates applications of a flexible expansion joint for roof decks. "Metlastic," a butyl strip bonded to metal flanges, can be applied like sheet metal flashing or snapped on to curbs. Tables give sizes of available types. Great Lakes Carbon Corp., 333 N. Michigan Ave., Chicago, Ill. 60601. On Readers' Service Card, Circle 205

Electrical Equipment

On the Wall

Globes, cylinders, and square-section lighting fixtures for wall mounting are available in plastic, metal, and "half & half." Two catalogs, for indoor and outdoor fixtures, give charts and photos. Habitat Inc., 341 E. 62 St., New York, N.Y. 10021. On Readers' Service Card, Circle 206

Let It Rain

Catalog of lights for indoor, outdoor, and wet locations, gives sizes, descriptions, sections, and photos of weatherproof and corrosion-resistant cast aluminum fittings. Booklet includes wall, ceiling and post units, night lights, step lights and edge-lit directionalities. 20 pages. McPhilben, 1329 Willoughby Ave., Brooklyn, N.Y. 11237. On Readers' Service Card, Circle 207

Doors/Windows

Glass Sandwiches

"Acousta-Pane," a glass and plastic laminate especially designed to stop sound, is available in transparent, white translucent, or tinted sheets. Another sandwich of small horizontal bronze louvers (17 or 23 per inch) sealed between glass lights, is called "Comfort-Lite." Also described are amber glass, frosted glass, shatter- and bullet-resistant glass—all laminates. Brochure gives light-transmitance tables, charts, specs, sizes, photos, and comparison curves for sound transmission. 12 pages. Amerada Glass Corp., 2001 Greenleaf Ave., Elk Grove Village, Ill. 60007. On Readers' Service Card, Circle 208

Snappy Doors

Steel folding doors with baked enamel finish snap into alumi-
It's a Mirror... (from the brighter side)

num tracks with plunger-type hardware. Louvered doors, assembled in two- and four-door units, are suitable for residential, commercial, or institutional use. Two pamphlets illustrate doors and give selection charts, specs, styles, and installation procedures. Ken-natrack, Ekco Building Products Co., 1250 Bedford Ave., S.W., Canton, Ohio 44701.

On Readers' Service Card, Circle 209

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

Coatings for Any Wall

Ten wall coatings are formulated to meet varying requirements. There is a coating to resist fire, and one to resist chemical abuse, a coating that "breathes," one for irregularly shaped roofs, one to bridge minor cracks and resist chemicals, one for application on structural steel and metal panels, two that incorporate exposed aggregates of various grades, a textured acoustical coating, and a cementitious glaze-type coating that bonds to masonry. Flooring and roof decking are also included in a pamphlet with descriptions and photos. Desco International Assn., P. O. Box 74, Buffalo 5, N. Y.

On Readers' Service Card, Circle 211

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

Mirropane is used for observing consumer marketing reaction panels at Fuller & Smith & Ross Inc., advertising agency, Los Angeles, Calif.

Mirropane is used for observing consumer marketing reaction panels at Fuller & Smith & Ross Inc., advertising agency, Los Angeles, Calif.

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-0-F® glass distributor or dealer, listed under "Glass" in the Yellow Pages, or write

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6236 L-0-F Building, Toledo, Ohio 43624

On Readers' Service Card, circle No. 468

Finishes/Protectors

Danish Finish

Polymerizing action of "Danish Oil Finish" penetrates wood to harden and seal. It is natural-looking, has a low-gloss patina, comes in four shades for interior panelling and furniture, and is easy to apply. Data sheets give description, application, specifications. Postcard sample available. Watco-Dennis Corp., 1756-22 St., Santa Monica, Calif.

On Reader's Service Card, Circle 210

Furnishings

Space Savers

Four succinct pages show the Howard Miller Inner-Wall Cabinet line, which includes several types of shallow, compact storage cabinets for bathrooms or bedrooms in hotels, hospitals, dormitories, and elsewhere. Some have mirrors, electrical outlets, clock and radio, others are simply shelf units for odds and ends; also a hamper and drier. Designed
SOME PEOPLE KILL THEMSELVES TRYING TO GET TO WORK ON TIME

Getting your employees to and from work alive is a full-time job. Yours. And it's not just a matter of public welfare, either. Off-the-job traffic accidents cost American industry millions of dollars in lost time, training and production every year. Last year alone, more than twenty thousand workers were killed in off-job motor vehicle accidents. And more than 750,000 were injured. Motor vehicle accidents claimed more than 1½ times as many lives as on-the-job accidents. Can you do something about it? You really can't afford not to. Write now, to the National Safety Council for information on what you and your company can do. Address your letter to the Director of Public Information, National Safety Council, 425 N. Michigan Avenue, Chicago, Illinois 60611. Published to save lives in cooperation with The Advertising Council and the National Safety Council.
to be built into the wall or surface-mounted, the entire line of 24 combinations is designed around six basic modular units. Offered in natural wood finishes or epoxy colors. Prices, measurements, specifications, one-year guarantee. Howard Miller Clock Co., Zeeland, Mich.

On Readers' Service Card, Circle 212

Lamidall a Wall

Complete information on Lamidall wall paneling is available in eight-page booklet: installations are illustrated, data and specifications given, corner and edge treatment detailed (strips in wood grains and, rather touching, anodized gold aluminum; feature and divider strips), and the 23 patterns are pictured. These include a dozen wood grains—six walnuts to a white Indian teak, nine solid colors (fair to middlin' range), one white marble, and the too-perennial "gold-sparkle." Lamidall, Div. of Woodall Industries, Inc., 425 Maple Ave., Carpentersville, Ill.

On Readers' Service Card, Circle 213

Stainless-Steel Debutante

The serviceable "Sabre" series makes its debut in a 15-page brochure. Eighteen different chairs (arm, swivel, stacking, secretarial) and several multiple seating units are covered in Naugahyde, other coverings optional. All arms upholstered or wood-capped; 3"-thick seats
have hardwood frames with heavy-gage sinuous springs attached, and are covered with molded polyfoam. Heavy-duty frame construction of 7/8" tube 16-gauge steel has welded joints. Same design available at a lower price with frames of chrome or enameled steel. Milwaukee Chair Co., 3022 W. Center St., Milwaukee, Wis.

**Terrafino**

**"INSTANT" TERRAZZO SAVES TIME AND MONEY!**

...is easier to design with

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**Let Clients Plan Kitchens**

Kitchen Planning Portfolio, designed to give the consumer a practical guide for all phases of kitchen planning, will be a valuable aid for clients. Portfolio includes the basic rules of design, function, and construction; graph paper and tracing guide for floor plan designing; and a color guide. A "clip and save" section contains information on materials, construction, processes. "Cabinetmaker Kitchens" album ($1) and "Kitchen Planning" guide (no charge) available separately; complete portfolio, $2. Mutschler Brothers Co., Nappanee, Ind.

**Scupltured Walls**

Three four-page brochures offer three variations of Erwin Hauer's sculptured walls. Black-and-white photos demonstrate the versatility of the modular blocks in a range of interior and exterior uses. Smallest in

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**Terrafino Company, P.O. BOX 52, CARLSTADT, NEW JERSEY**

TERRAFINO is the original 12"x12"x3/16" flexible tile with real #1 and #2 marble chips permanently bedded in a tough epoxy plastic matrix. The TERRAFINO floor pictured above (Calico Kitchen Restaurant, Cheltenham, Pa.) is a typical example of the benefits to be derived from this modern way to install terrazzo.

**TERRAFINO SAVES TIME**

It is rapidly installed in the same manner as resilient tile—with a trowelled mastic. This terrazzo floor can be installed and ready for traffic in one working day!

**TERRAFINO SAVES MONEY**

In addition to the savings involved in cutting a week or more off conventional terrazzo installations, TERRAFINO saves money two other important ways:

1. It usually costs less than conventionally placed terrazzo.
2. It maintains like terrazzo—for far less than resilient tile.

**WIDENS DECORATIVE SCOPE OF TERRAZZO**

TERRAFINO can be used with conventional vinyl feature stripping for many practical and decorative effects.

Learn more about how TERRAFINO flexible terrazzo tiles may solve your flooring problems. Send coupon for samples, descriptive literature and specifications to:

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**On Readers' Service Card, circle No. 405**
scale is available in white gypsum for interior installation only; others available in white or gray concrete (for exterior use) and white gypsum. Brochures include installation instructions. Arts for Architecture, Inc., 50 Rose Place, Garden City Park, N. Y. On Readers' Service Card, Circle 216

Wholly Light

Four-page brochure shows aluminum and opalescent glass lighting fixtures for churches. Four styles are perceptively titled: "Futura," "Moderne," "Contemporary," and "Early American." Fixture construction includes rings, poles, brackets, and covers; nave and companion lights. Diagrams, black-and-white photos, complete specifications. Also shown: fiberglass baptistry, church spires. Wiedemann Industries, Inc., P. O. Box 672, Muscatine, Iowa. On Readers' Service Card, Circle 217

Constant Hot Water

Steam fed heat-exchange unit heats water and mixes it with cold to supply water within 8°F of preset temperature, between 110 F and 180 F. No storage tank required. Two models deliver 30 or 60 gpm. Shop drawings, piping layouts, and tables included on data sheets. Leslie Co., Lyndhurst, N. J. 07071. On Readers' Service Card, Circle 221

Carpet Kit


Insulation

Insulate Four Ways

Booklet covers four types of insulation: water-repellent vermiculite masonry fill, a rigid polystyrene insulating board, granular vermiculite for attics, and glass fiber batts. Wall systems using polystyrene sound-deadening board are also discussed. Guide specs, "U" value tables, coverage tables, and recommended applications. 12 pages. Zonolite Div., W. R. Grace & Co., 135 S. LaSalle St., Chicago, Ill. 60603. On Readers' Service Card, Circle 219

Sanitation/Plumbing

For the Bath

Catalog contains specs, photos, installation details for an extensive line of bathroom hardware. 36 pages. Hall-Mack Co., 1380 W. Washington Blvd., Los Angeles, Calif. 90007. On Readers' Service Card, Circle 220

Surfacing

Set A Tile

"1966 Handbook for Ceramic Tile Installation" has spec guides,grouting and setting data, details for installing tile on interior and exterior walls, floors, swimming pools, refrigerator and steam rooms. Special section sets forth Tile Council's testing and Quality Certification program recently established for ceramic tile.
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Want more information? Write Dept. PA 366, Pass & Seymour, Syracuse, New York 13209

On Readers’ Service Card, circle No. 383

March 1966
Plain and Fancy Tiles

Catalog illustrates glazed and unglazed tiles in many colors, surfaces, and sizes for walls and floors of commercial, industrial, and residential buildings; decorative relief tiles in a number of patterns and profiles; swimming pool tiles; and precast panels. The roof of the Sydney (Australia) Opera House is clad with Hoeganaes tiles. In addition to color photos, illustrations show available shapes with size/color/weight tables, installation details, and brief specs. 16 pages. Hoeganaes Ceramic Co., Taylors Lane, Riverton, N. J. 08077.

On Readers' Service Card, Circle 223

Colored Cork Tiles

Brochure illustrates “Color-Cork” natural cork tiles and rolls impregnated with variety of colors for use on floors and walls. It has a noise reduction coefficient of 0.11. Cork resists water, dirt, and stains. Color-Cork is available in 16 solid colors, eight “Jaspe” colors (a blend of two of the standard solid colors) and eight “Multi-color” colors (a blend of three or more either contrasting or harmonious colors). 4 pages. Gotham Materials Inc., New Rochelle, N.Y.

On Readers' Service Card, Circle 224

PROJECTIVE ARCHITECTURE

NEWS REPORT

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Write for samples and more facts. Sisalkraft, 56 Starkey Avenue, Attleboro, Mass.