- Powerful Construction Details Mark Milan Skyscraper (above)
- Baltimore Civic Center to Have Unique Roof System
- Curtain-Wall Spandrel Design Simplifies Construction
With four brand new schools opened this term, Sarasota is sure it can top any community in the U.S. in school architecture, a national magazine said recently.

One of the finest of the four is Riverview Junior-Senior High School, a 24-classroom, $1,204,945, two-story building by Yale’s Architecture Department Chairman Paul Rudolph. The school is built around a central courtyard, has exposed steel and white brick, copious canopies for sunshade — and a gymnasium floor that pleases both players and coaches as well as the architect.

Its patented design features extra thick maple flooring, Powernailed to Dri-Vac treated, short-length fir sleepers floating on resilient pads. The floor system is not attached to slab, walls or other structural members to permit expansion and contraction without buckling or cupping. Air-channeled pads cushion the entire floor, preventing shin splints and improving play — and PermaCushion’s selected strips of Northern rock maple assure beauty and smoothness that last for generations.

Get the facts on PermaCushion for your next gym job. For information and name of your nearest authorized installer, write Robbins Flooring Company, Reed City, Michigan, Attn Dept: PA-959.

*Patented and Registered US. and Canada.
MILAN, ITALY—The latest large-scale commercial building in this city's postwar construction boom, the headquarters of Pirelli Company, has reached completion. A notable array of Italian architectural and engineering "names" designed the building: Architects Gio Ponti and Alberto Rosselli and Engineers Antonio Fornaroli, Giuseppe Valtolina, and Egidio Dell’Orto; with the structural-engineering collaboration of Pier Luigi Nervi and Prof. Arturo Danusso. The result of this combination of talents is a building of interesting structural innovations covered with a skin bringing it perilously close in appearance to the run-of-the-mine curtain-wall buildings of New York's Park Avenue.

Structurally, the building comprises four giant, hollow supporting pillars—two at each end—which contain emergency stairs, elevators, and electrical and air-conditioning equipment. Between these are four intermediate bearing pillars. These piers, as can be seen in plan above, diminish in size as they reach the top of the building where there is less weight to bear. Central hall of each floor is widest at center of building, narrowing at ends where traffic is least.

The strong forms created by the use of prestressed concrete in the pillars and ceilings (below) evoke a far greater response than the bland façade of the completed building. Here can be detected the "fine Italian hand" of Nervi.
BALTIMORE, MD.—The proposed Baltimore Civic Center, designed by Architect A. G. Odell, Jr. & Associates, Charlotte, N.C., and Engineers Severud, Elsted & Krueger Associates, New York, will stand across the way from the future Charles Center redevelopment in this city. A pedestrian walkway will later link the two centers. The civic center will have provision for a maximum 13,000-capacity auditorium under an inverted, folded-plate roof, and a 100,000-sq-ft exhibition area under a conventional flat roof. Parking space for more than 400 cars will occur below the two-level exhibition space.

According to the engineers, the auditorium roof is a suspended system completely closed in itself, with respect to the horizontal thrust of the cables. Compression beams hold end-points of load-carrying cables apart and rigidly in place, and maintain balance of horizontal cable forces. The beams which create the form of the roof by sloping from the center to the outer edges also transfer, by local bending, the roof-deck load and live load to vertical struts which transfer the entire vertical load to suspension cables. Cable and compression members fan out radially from a common center point to provide a clear span of 270 feet. The roof gains its inverted, folded-slab appearance by lowering of the steel decking between compression beams to valleys that increase in depth toward the outer edge. This suspension system, according to the designers, “offers equally unique and economic framing for extremely long, non-fluttering spans covering any shape area.”
ARCHITECTURAL BULLETINS

• Twenty-story Hartford Fire Insurance Company Building in Chicago will sit four feet inside its reinforced-concrete structural frame. Exterior columns are to be granite covered. Glass curtain-walled building will have an esplanade overlooking Chicago River, and a wide public plaza to the south. Two lower levels under plaza will add to building's usable space. Architects Skidmore, Owings & Merrill have specified gray-glass walls permanently sealed against dust and dirt. George A. Fuller Company, General Contractor.

• Jan Rowan, Architect of Phoenix, Ariz., joins PROGRESSIVE ARCHITECTURE this month as Feature Editor. He received his architectural education at Architectural Association School in London and at McGill University in Canada—where he won the Pilkington Prize in Architecture. Rowan has worked with Le Corbusier in France and with several offices, including that of I. M. Pei, in New York. He comes to P/A from his own successful private practice in Phoenix. He has taught at Pratt Institute, Cooper Union, Brooklyn College, and Rhode Island School of Design. Deeply concerned with developments in contemporary design techniques and structural advances, Jan Rowan is equally interested in office-practice problems, particularly those of smaller firms. His wide background of experience is expected to make him a valuable addition to the P/A staff in serving and informing the architectural profession.

• Pittsburgh's # 4 Gateway Center building (below) will be at apex of that city's Golden Triangle. Twenty-two-story stainless-steel-and-glass building will have exterior, stainless-steel-sheathed, service core containing bank of 12 elevators, air-conditioning equipment, and other heavy-service facilities. Owner-building is Equitable Life Assurance Society. Architects, Harrison & Abramovitz, New York; General Contractor, George A. Fuller Company; fabrication, erection of stainless-steel wall, Limbach Company.

• Zenith Radio Corporation salon in Chicago, designed by Architects Shaw, Metz & Dolio, features large sculpture group by Harry Bertoia. Main element of wall sculptures is this great burst of brass, eight feet in diameter. Each unit of group is lighted "to convey an abstract concept of electronics communications." Shown examining sculpture are Architect Alfred Shaw and Sculptor Bertoia.

• Graduate School of Public and International Affairs at University of Pittsburgh has expanded its Municipal-Metropolitan curriculum to include program of study in Urban Renewal and Redevelopment, according to Dean Donald C. Stone. Courses start with Fall semester.
• Producers' Council will hold its 38th annual meeting and chapter officers' conference in St. Louis, Sept. 30-Oct. 2; last year's topic, "Dynamics of Distribution," will be resumed in reference to sales and marketing programs. . . . New York State Association of Architects meets at Lake Placid, N.Y., Oct. 8-10; New York Regional Council of AIA meets there also on Oct. 7. . . . Following 5th annual convention of Prestressed Concrete Institute in Miami Beach, Nov. 1-7, many members will take a field trip to Havana, Cuba, to view outstanding examples of prestressed concrete construction there. . . . 38th annual Oil Heat Institute of America convention will take place in New York concurrently with 23rd National Oil Heat & Air Conditioning Exposition at New York Coliseum, April 4-7, 1960. . . . 12th Triennial in Milan, Italy, will emphasize home and school in their relationships with architecture, town planning, interior decoration, and industrial design. International exhibition will last from July 16 to Nov. 4, 1960.

• Design for building hung from concrete arch won a Mars Outstanding Design Contest award for New York Architect Seymour Rutkin. Circularly wrapped high-tension steel cables unify structure and also hold circular, concrete, floor slabs in compression. Service cylinder pierces center of building. Contest is sponsored by J. S. Staedtler, Inc.

• New York has announced plans for 1964 World's Fair, to celebrate city's 300th anniversary (actually it is 300th anniversary of name of New York). Fair will be held at Flushing Meadow Park, site of 1939-40 New York World's Fair. Inquiry by P/A on August 14 revealed that no architect has been appointed yet. Los Angeles and Washington, D.C., have also announced world's fair intentions. Authorization for President to invite foreign exhibitors to such fairs would have to come from Congress, and fairs must be approved by International Bureau of Expositions, Paris.

• Octet truss of gold-anodized aluminum tubes measuring 100 feet long is part of exhibition of structures by R. Buckminster Fuller in garden of Museum of Modern Art, New York. Other structures are 55-foot-diameter plastic dome used by Air Force for DEW radar stations, and 45-foot-high discontinuous-compression, continuous-tension mast. Octet truss was cosponsored by museum and Aluminium Ltd. of Canada.

• John Knox Shear Memorial Fund, to award traveling scholarships, has been established by Carnegie Institute of Technology, where Shear formerly headed Department of Architecture.

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• Now everyone can have "sensual" architecture with readymade, prestressed-concrete, hyperbolic paraboloids. These were used in Cortez Shopping Plaza, Bradenton, Fla., by Architects Edward Dean Wyke and Lathrop Douglass. "Hype" is made by West Coast Shell Corporation of Sarasota in nine stock sizes, from 8'x10' up to 100' square.

• "Floating mall" will be unique feature of Mission Valley Shopping Center in San Diego, Calif., designed by Albert C. Martin & Associates, Los Angeles. Parking basin will be provided beneath specialty-shop mall; two major depart-

ment stores will sit on banks of basin at each end of mall. Customers will reach mall via moving sidewalks. Shops will open onto mall, with perimetrical service corridors screened by decorative grills. Service, sales, and storage areas will thereby be focused on one level, permitting flexibility of partitioning between these elements, and optimum use of floor space. Center "will reflect in contemporary terms the style of the mission from which the valley takes its name" through use of arcades, courtyards, etc. Associated Architects, Frank L. Hope & Associates, San Diego.
- AIA and NAHB have announced first in series of annual Awards of Honor to architect-builder teams contributing most in one or more of following categories: Community Planning, Individual House Design, Improvement of Building Techniques, Public Service, Architect-Builder Relationships, and Service to AIA or NAHB. Entries must be submitted by AIA or NAHB chapters or by either national organization. Submissions must be received at AIA headquarters postmarked not later than Oct. 1, 1959. Awards will be made at 1960 conventions of AIA and NAHB. For details contact: American Institute of Architects, 1735 New York Ave., N.W., Washington 6, D.C.

- Hollis Unitarian Church, Hollis, N.Y., will contain Sunday school facilities, auditorium for religious services and other community activities, and administrative offices. Steel-

- Immense 402-unit high-rise apartment building in Capitol Park Apartments has been opened in Washington, D.C. Designed by Washington Architects Satterlee & Smith for Roger L. Stevens and James H. Scheuer, unit is first element in high-rise/low-rise redevelopment shown above. Model of entire, 550-acre redevelopment (Webb & Knapp is developing other sections) was shown at American National Exhibition in Moscow to rebut Soviet claims of “slums in shadow of U.S. Capitol.”

- Greater accuracy in determining the results of seismic surveys is now possible through the use of powder-actuated fastening tools, according to producers of Ramset Fastening System. Old method of striking sledge hammer against steel plate is replaced by firing fastening tool, without fastener, against steel plate to produce even flow of shock waves. Refraction seismograph then picks up waves, enabling soils engineers to compute depth of different soils and rock formations.

- Park Avenue’s latest Rothscraper is this 50-story building, which will be largest commercial structure on the one-residential street. Announced for completion in 1962, building will have more than 1½ million sq ft of space. Architects: Emery Roth & Sons; Builders: Cauldwell-Wingate Corp.

- Headquarters of Scott Paper Company, designed by Wal-ton Becket & Associates, Los Angeles, will adjoin Phila-

- Delphia’s International Airport on 41-acre site. Initial plan includes six-story office building and three-story chemical and mechanical research laboratory; future elements include recreation building, another laboratory, and more offices. Cafeteria in office structure will overlook airport.
Yamasaki's "vertical Gothic" will grace Michigan Consolidated Gas Company Building in Detroit. Exterior walls will be composed of marble or quartz chips in white precast concrete. Windows will be in shape of elongated hexagons composed of marble or quartz chips in white precast encased in stainless steel frames. Colored lights will illuminate crown of the building at night. Approach to building will be by bridge over reflecting pool. Associated with Minoru Yamasaki & Associates on the project are Smith, Hinchman & Grylls, Inc., Detroit.

Manufacturing Chemists' Association, Inc., will undertake study at Southwest Research Inst., San Antonio, to establish basic fire-safety factors affecting use of plastics in buildings. One-year project will utilize actual plans for two proposed buildings—one for multiple-occupancy building such as office building, the other for one-family house.

University of Washington Nuclear Reactor Building will be used to train students in operation of nuclear power plants and as research facility for College of Engineering. Surrounding deck will be used for viewing reactor operations, plus outdoor exhibits. Reinforced-concrete structure will have reactor room spanned by four-foot wide precast concrete channel slabs resting on ten-inch thick poured beam walls which also support steel beam-rails of traveling five-ton crane. Architects: Wendell Lovett, Daniel Streissguth, and Gene Zema, Architect Artist Group, Seattle.

Personalities

New Orleans Architect I. WILLIAM RICCIUTI has been made president of New Orleans Philharmonic Symphony Society. Ricciuti, describing his childhood struggles with another muse, said he became the "worst violin player in the world!" . . . CARL KOCH & ASSOCIATES, Cambridge, Mass., has been retained by Ferro Corp. to design series of homes featuring porcelain enamel on steel. Designs will be part of program in which Ferro, together with U. S. Steel Corporation and Fenestra, Inc., plans to design and construct pilot models of "highest quality homes of porcelain enamel on steel which can be available at lowest possible cost" . . . CHARLES FRANCIS MURPHY (Naess & Murphy, Chicago) received Building Stone Institute's 1959 award for outstanding contributions in field of architecture. Murphy "by his creative designing, has developed a variety of architecturally distinguished buildings [capitalizing on] beauty and durability of natural stone," stated P. J. Valentine, BSI president . . . KENNETH M. NISHIMOTO, Pasadena architect, will lead his 4th annual Architects' Tour of Japan, leaving San Francisco Oct. 13. Contact him at 263 So. Los Robles Ave., Pasadena, Calif. . . . HAROLD A. HARTY, Wolverine Tube executive, was elected Chairman of Board of National Industrial Advertisers Assn., during group's recent San Francisco convention . . . CLARENCE E. DAY (vice-president and director of Harley, Ellington & Day, Inc., Detroit architects-engineers) retired after 54 years of practice. He will continue to serve firm in consulting and advisory capacity . . . ROBERT S. HUTCHINS and GILMORE D. CLARKE named Supervising Architect and Consulting Landscape Architect, respectively, for Vassar College. Hutchins will represent his firm, Moore & Hutchins, New York, in development of over-all plan for future development of school. Clarke will represent Clarke & Rapuano, New York, in advising on campus landscaping . . . The other partner of Moore & Hutchins, JOHN C. B. MOORE, was elected president of Fine Arts Federation of New York. Architects elected directors of Federation were WALTER H. KILHAM (O'Connor & Kilham) and FRANCIS KEALLY . . . HIDEO SASAKI became professor of landscape architecture at Harvard Graduate School of Design in July. . . . PERRY E. BORCHERS, associate professor of architecture at Ohio State, has been awarded McKim Traveling Scholarship by his alma mater, Columbia University. He will study "three-dimensional recording of architecture in space" of Baroque and Byzantine churches in Europe . . . HAROLD LEEDS, architect and interior designer, is new chairman of Interior Design Department, Pratt Institute, Brooklyn . . . DR. WALTER GROPIUS reports that TAC will establish new office in Rome, to be called The Architects Collaborative International. Principle reason for branch is supervision of firm's Iraq project, Baghdad University . . . NORMAN J. SCHLOSSMAN (of Loeb, Schlossman & Bennett, Chicago) is chairman of study committee on school fire safety for Building Research Advisory Board and Committee on Fire Research, two groups of National Academy of Sciences-National Research Council. Study is being made under grant from Educational Facilities Laboratories, Inc.
NEW YORK, N. Y.—This city's most elaborate restaurant to date has opened in the Seagram Building on Park Avenue. It is "The Four Seasons" owned by Restaurant Associates. All design elements of the restaurant will be detailed in a RELATED DESIGN FIELDS article in DECEMBER 1959 P/A.

LAVISH NEW YORK RESTAURANT READY FOR GOURMET PALATES

Architect of "The Four Seasons" is Philip Johnson, assisted by William Pahlmann Associates, Interior Designers; Garth & Ada Louise Huxtable, Industrial Designers; Richard Kelly, Lighting Consultant; Karl Linn, Landscape Architect; Sculptor Richard Lippold; and Emil Antonucci, Graphic Artist.
VAILS GATE, N. Y.—Alarmed by the continued spread of monotonous, repetitive, soul-destroying housing developments across the American landscape, Mastic Tile Corporation ten months ago established a $25,000 competition for design and planning of better community developments (DECEMBER 1958 P/A, page 34). The pressing nature of this problem and its interest to architects was made apparent by the receipt of hundreds of entries from architects and students throughout the country. From this group, a grand prize, second prize, third prize, and four merit awards, plus first, second and third student prizes and four student merit awards were selected recently by a Jury headed by Pietro Belluschi and including Edward H. Fickett, George Fred Keck, Reginald Roberts, and Joseph H. Orendorff (Special Assistant to Administrator, FHA). A. Gordon Lorimer was professional advisor. Certificates of Achievement were also given in professional and student groups.

According to Belluschi, "... this competition should be able to show that any good piece of building land need not be abused by the usual long and dismal row of salt boxes which in recent years has marred the semi-urban landscape of our nation; and it should give a demonstration of the fact that, with a little care and ingenuity, interesting relationships between houses can be achieved, producing amenities without added cost."

Entrants in the competition were given for "development" an undeveloped farm site "in the general industrial Great Lakes area on the periphery of a major city." Program stated that residents would be middle-income families with total capital investment per family of $16,000-$24,000.

Grand Prize Winner (above) was one of the few winners which did not include high-rise apartments. The Jury felt that this solution would be within the technical abilities of the average builder. It was also felt that this program solved internal traffic problems while maintaining peace within house groups. Architects: Howard R. Meyer, James Reece Pratt, John Harold Box, of Dallas, Texas.

Second Prize Winner, by Manuel Dumlao, Robert Burley, Edward Kovach, of the office of Eero Saarinen & Associates (above, right), drew from the Jury the comment that "the intermixing of individual houses, staggered rows of houses, and co-operative apartment groupings is particularly well handled."

A unique system of residential nuclei (center right) was the solution of another group from the Saarinen office; Paul A. Kennon, Chartier Newton, Henning Huth, Phil Kinsella, Jr. The Jury appreciated the "strong sculptured effect of the court clusters of residences." Cars for each "nucleus" are stored in areas beneath its court.

Pratt Institute Students George Ohanian and Fernando Gonzalo won First Prize in the student group (above, right). This entry was noted for "its realistic approach and fine solution."

Juror Keck said it was "interesting to find many site plans based upon (or justifying) Henry Wright's early 1920 Radburn plan. This plan recognizes again the forgotten pedestrian...[it] has been forgotten for a long time and few, if any, actual tract projects have adopted it."

COMPETITION WINNERS SUGGEST AVENUES FOR HOUSING IMPROVEMENT

Planning and Economics Emphasized by Jury
HANDY WAY to estimate the cost of roof constructions

Now Fiberglas assists you in making helpful estimates. The new Roof Construction Evaluation Chart shown below quickly brings cost estimates together and provides an easy way to compare different roof constructions. The chart considers initial and operating estimated cost of the heating-cooling equipment in relation to roof-ceiling thermal performance, as well as similar costs of deck insulation and built-up roofing. Other factors included are joist weight and other variable and fixed cost items. Owens-Corning Fiberglas representatives will gladly show you how a Roof Construction Evaluation works for any roof construction you plan. For complete information, write: Owens-Corning Fiberglas Corporation, Department RCE, 717 Fifth Avenue, New York 22, New York.
HOW TO CHOOSE the right roof-ceiling combination for above and below the deck

The wide range of Fiberglas products fits most types of roof construction. Below are examples of how Fiberglas products “build-in” adequate thermal and/or acoustical performance. Top: combined thermal-acoustical treatment for steel decks using roof insulation above the deck and a suspended ceiling board for noise control. Low U value depends on thickness of insulation and a U of .04 is possible by adding Fiberglas Sonobatts on top of the ceiling board. Middle: low-cost Fiberglas Form Board and poured-in-place deck combination with a U value of .16. The Form Board serves as a permanent thermal-acoustical insulation and interior surface finish. Bottom: new Fiberglas Access Tile and new Fiberglas Polarizing Light Panel in a suspended ceiling under a 4" concrete deck. With 1" Fiberglas Roof Insulation, combination produces a U of .10.

WHY U = .15 for heating and .10 for cooling provides optimum thermal design

Designing for proper U value is important, since amount and kind of insulation affect both cost and comfort. Human comfort within a building can be expressed mathematically with surprising accuracy, even though the “comfort yardstick” has been established by empirical methods. Design criteria of U = .15 for heating and .10 for cooling represent a reasonable balance of initial and operating cost savings with desirable comfort levels. These recommendations were published in Construction Specifier Magazine, based on a study of constructions and analysis of heating-cooling equipment initial and operating costs. For assistance in determining thermal requirements, contact your Fiberglas representative or write: Owens-Corning Fiberglas Corporation, Department RCE, 717 Fifth Avenue, New York 22, N.Y.
FINANCING OF MUNICIPAL REDEVELOPMENT EXPLORED
by William Hurd Hillyer

Benjamin Franklin's observation that it is always profitable to pay court to older women, because they appreciate it so much, can be applied to the current enthusiasm for redevelopment of our older downtown districts. Approaches to this problem by architects and city fathers, which are at once sensitive and practical, will result in a gratifying revitalization of the in-town sections. In a recent statement, Oliver M. Walker, chairman of NAREB's Committee on Real Estate Economics, wrote, "The central zone continues revitalization of the in-town sections. In a recent statement, Oliver M. Walker, chairman of NAREB's Committee on Real Estate Economics, wrote, "The central zone continues revitalization of the in-town sections. In a recent statement, Ol..."}

We shall try to discover how these plans for downtown revitalization are financed. Baltimore has such a plan calling for $470 millions during the next 20 years. Private investors will take up three-quarters of the cost, with the City of Baltimore and the Federal Government splitting the remainder. From New England comes word that commercial redevelopment is expensive; Federal, state, and local governments are spending over $150 millions in about 50 downtown renewal projects in that region. Portsmouth, N.H., proposes converting the area into a historical center similar to Williamsburg, Va. Lowell, Mass., is gradually transforming its stagnant business area into a completely modern one. Louis C. Purdey, executive director, Peninsula Industrial Committee for Newport News, Hampton, York County, James City County, Virginia, claims industrial financing opportunities equaled in few southern sections; multimillion-dollar plant construction can be funded by issuance of low interest, tax-free revenue bonds. The Federal Reserve Bank of Richmond, Va., states that at end of 1958, 392 communities in 41 States, District of Columbia, Hawaii, and Puerto Rico had completed, were planning, or carrying out 685 urban renewal projects. It lists what is needed for Federal aid in urban renewal: (1) comprehensive community plan; (2) adoption and enforcement of adequate building, welfare codes, and ordinances; (3) detailed analysis of blighted neighborhoods to determine treatment; (4) establishment of administrative organization to carry out program; (5) statement of provisions made for meeting its share of costs; (6) plans for housing displaced families; (7) community-wide citizen participation and support. With this listing perhaps more architects will be inspired to start their communities on such a program.

Mrs. Hoffman, Director of the Bank of America (founded by her father) upon her return from a ten-day meeting of NATO's Atlantic Congress in London, said: "I think we in America have to give first consideration to depreciation of our dollar. When one travels and talks with leaders abroad, one finds there is a declining confidence in the dollar. The fact is that we have not curbed our Government spending and Government deficits. The result is inflation and a declining confidence in the dollar's value. The evidence of declining confidence in the dollar is shown in the fact that foreign nations have been withdrawing their gold reserves." Federal Reserve Bank of New York gave the decline of our gold in 1959's first six-and-a-half months as $853 millions, but this decline was exceeded by 1958's similar period.

The American Banker editorializes: "The relation of our gold stock to our banking and currency system affords endless opportunities for statistical exercises, alarming and otherwise. . . There is general agreement that the shrinkage in our bullion has reflected a redistribution of gold to central banks abroad, which in turn has reflected an economic recovery of overseas nations . . . the objective of U.S. foreign economic relations ever since the war."

An experienced observer is certainly the Berliner Handels-Gesellschaft of Frankfurt am Main, one of the leading banks of West Germany, with total assets equivalent to some $145 millions. The bank's Economic Review states: "It follows there is no prospect of any dollar devaluation in the form of a rise in the price of gold. There is all the less chance of it because the countries which have the principal currencies would at once follow suit, so that devaluation could not be expected to produce any effect at all on the balance of payments."

According to Government reports: Building activities rose to new highs in June and the first six months of this year. New construction in this year's June rose to $5 billions; this was up $400 millions from the previous month and $660 millions from the like month of 1958. Private construction spending in June rose about $300 millions and totaled $3.5 billions, about $500 millions over June, 1958. Public construction outlays in June were $100 millions over the previous month and the like year-ago period with a total of $1.5 billions. Private housing starts in June rose to a seasonally adjusted annual rate of 1,370,000, up from 1,340,000 pace in May. At June's end 709,500 private and public dwelling units were under construction—an increase of 32% over 1958's first six months and a record high for the period.

Requests for VA appraisals of proposed homes in June totaled 27,164—the largest number since August 1958. Total was 31% above May's and actual starts in June came to 10,958—6.9% up from those of May. Actual applications for home loan guarantees advanced 11.1% in June to 16,975. Mr. Harry Held, senior vice-president of Bowery Savings Bank, New York, and regional vice-president and chairman of the Research and Educational Trust Fund of Mortgage Bankers Association of America, recently said we have "minimized the possibility of a recurrence of conditions like those of the 1930s . . . measures have been taken to prevent future depressions and deflation, changes in mortgage loan contracts, particularly the universal shift to the amortized long-term loan in home financing." Illinois passed new amendments to its savings and loan law which permit State-chartered associations to make 80% straight mortgage loans for 18 months on individual trade-in houses, and also on a builder's or realtor's revolving inventory placed in trust. It is felt that similar laws may find their way into other states.
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STONE DISCUSSES NATIONAL CULTURAL CENTER

by Frederick Gutheim

In a distinguished career that has included extensive experience in public building, culminating in recent years in the American Embassy in New Delhi and the famous pavilion in the Brussels Fair, Edward Durell Stone reached an unmistakable climax here this summer when, within a few days, he was named architect for the large new National Presbyterian Cathedral Center, on Massachusetts Avenue, and also the National Cultural Center. A great deal has been written since about both the architect and these two projects, especially the latter. As the most informative to date, and my personal nomination for the AIA’s journalism award for 1959, I am devoting this column to reprinting the fascinating question-and-answer session with Stone which appeared as Betty Beale’s column, “Exclusively Yours,” in the July 17 Washington Star.

1 Will the cultural center be modern or will it conform to the classical architecture of Washington?

“This is a very important monument ideologically and it should be here for centuries. So it's important that it not be dated, that people two generations from now won’t say 'that is the way architecture looked in 1960.' ”

2 Artist Peter Hurd said here last week he doesn’t believe Washington should be a proving ground for beauty. Do you agree?

"'You don’t want to make the rules so stringent that your imagination is restricted. However, this building is something to be taken very seriously indeed since it speaks for the cultural maturity of a country.'"

3 Will the center be all white or will color be used?

"I would say this, that Washington is primarily a city of white buildings in a park-like setting. I would see no reason for departing from that."

4 Have you decided on what materials you will use?

"No, we have not, but I would assume that where masonry is used it would be stone."

5 Will the building be ornamented with sculpture?

"I would think since we have developed such talent in this country in painting and sculpture we would want to incorporate the work of our talented sculptors and painters and that is in the tradition of architecture since the time of the Greeks.”

6 What is the maximum seating planned for the cultural center?

"No specific program has been formulated. It could have an auditorium which is devoted exclusively to opera, plus a symphony hall exclusively for concerts plus a theater, and that conceivably would be a flexible auditorium where you could have a seating a 1000 to 1200 for drama which might be expanded to 2000 for musical plays and operettas. It might be deemed advisable to have small rooms for conferences, etc., but it has not been decided."

7 Will the building include a room suitable for an inaugural ball or dressy state occasion?

"One suggestion made, and I think it’s an interesting one, is that the concert hall be so decorated as to have a ballroom character rather than an austere character, and so designed that a floor could be placed over the seats, as is done in the Paris Opera House when great balls are given there."

8 Will the stage be big enough for the largest Bolshoi Ballet?

"I do not know of any electronically controlled curtains but this is an area where we will make use of all the 20th Century technical advances."

9 Will electronics be used, in controlling curtains, for instance?

"I do not know of any electronically controlled curtains but this is an area where we will make use of all the 20th Century technical advances."

10 What kind of parking facilities do you plan? When Mr. Wright spoke here he said the beauty of buildings is destroyed when surrounded by cars.

"What we would visualize and this depends a great deal on water tables—it's very critical here—are two or possibly three levels of parking beneath the building so that the cars would be under cover and people would have direct access to the building. The buildings of today are irreparably damaged by cars around their perimeter."

11 Will the landscaping include a vast sweep of green down to the Potomac?

(Continued on page 118)
FOR SAFETY'S SAKE, SPECIFY
VACU-BREAK POWER PANELS

Here are some basic facts why BullDog Power Panels with Vacu-Break* units are tops in safety and performance. Vacu-Break design minimizes destructive arcs because contacts are housed in compact chambers that extinguish the arcs immediately. Result: maximum safety . . . virtually no pitting or burning of contacts . . . minimum maintenance. Vacu-Break switch units are “quick-make, quick-break” with an interlocking safety mechanism. Contacts are directly attached to operating handle. No tricky toggles or springs. You get positive, safe switching always. And when the handle is in OFF position, you know the switch is off!
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BOX 177 ♦ DETROIT 32, MICHIGAN

*Vacu-Break and Clampmatic are registered trademarks of the 1-T-E Circuit Breaker Company. **Amp-Trap is a registered trademark of the Ohme-Shaumut Company.
LITITZ, PA: Voted one of America's top 10 plants of 1957, this new Lambert-Hudnut building makes interesting use of LUPTON aluminum curtain-walls and windows ... featuring permanently clean and attractive light green porcelain-enamel spandrels.


KELLOGG, IDAHO: Extreme climatic conditions (wind and dust storms; smoke from a nearby smelter; a wide variance in atmospheric temperatures) made the selection of precisely-engineered weather-tight LUPTON metal windows unusually important at Kellogg High School. Ruggedness and simplicity characterize construction with these tight-fitting steel architectural projected windows. Architects: Culler, Gale, Martell & Norrie, Spokane, Wash.; Perkins & Will, Chicago, Ill. Photograph: Hendrick-Blessing.

BOULDER, COLORADO: 115 aluminum "Master" projected windows were installed on this handsome municipal building. These windows are attractive, yet functional, and require a minimum of maintenance. Architect, James M. Hunter, Boulder, Colorado.
Typical examples of modern buildings designed with LUPTON aluminum curtain-walls and windows

North, South, East, West. All over America, architects are designing modern buildings with LUPTON aluminum curtain-walls and windows. And no wonder! LUPTON has 75 years' manufacturing experience and a reputation for reliability... for delivering parts on-time and as specified. And, whether you're designing a school, hospital, municipal building, or other, LUPTON construction offers you significant advantages like these: design freedom, lasting modern beauty, low cost installation and maintenance, and single-source responsibility.

Investigate all the important advantages of LUPTON construction. See SWEET'S (Sections 3 and 17) for the Michael Flynn Aluminum Curtain-Wall and Window catalogs, and write for further specific information. Inquire about LUPTON Comfort-Conditioning*—the new curtain-wall system that cools, heats, and ventilates. Ask for the new LUPTON brochure showing its application in modern motels. A call to the nearest LUPTON representative (see the Yellow Pages under "Windows—Metal") will bring fast action without obligation.

*Trade Mark

NEW YORK CITY: LUPTON supplied and installed Type "H" fabricated aluminum curtain-walls for this building at 300 Park Avenue. Mullions are aluminum tube with expansion joints at alternate floors. Non-insulated spandrels of opaque structural glass were used. Architect: Emery Roth & Sons.

DALLAS, TEXAS: LUPTON met the design requirements of this modern Clinical Science Building at The University of Texas with opaque panels of blue anodized aluminum—insulated with 1% fiberglass, and with aluminum interior surfaces. Alternate mullions have special decorative fins. Architect: Mark Lemmon, Dallas, Texas.

DES MOINES, IOWA: The striking beauty of the Memorial Chapel and Charles Medbury Hall, College of the Bible, Drake University, exemplifies the variety of design easily achieved with LUPTON construction. LUPTON Master Casements alternate with fixed glass in LUPTON Type "H" curtain-wall units. Architects: Eero Saarinen & Associates, Bloomfield Hills, Michigan.

For more information, turn to Reader Service card, circle No. 304
The building has a beautiful setting. It's a park already on the Potomac and obviously we would want to overlook that fine Potomac view. Already there is a wonderful landscaping tradition established in Washington with these great elms, and fine grass and shrubbery, and I think it should capitalize on nature’s blessings here.

12 Will the building overhang the river?

"I think the possibilities are infinite and that will certainly be one thing we will explore. The possibility of a great terrace overlooking the Potomac—how adjacent would be conjectural—would be a thing to strive for."

13 What do you think of the architecture in Washington?

"Naturally, I am living in the 20th Century and I would like to see the advances of the art of architecture in our country—and I do believe we lead the world in architecture—recorded in one of our great buildings here. In other words, I think this should represent so far as it can the indigenous talent and culture of our country. We have always been too modest about our cultural attainments, and I think this symbolizes our coming of age culturally. The building should express it."

Dallas Gets Commercial Center


ROCKER-GLO SWITCH

Many of today's switches are specialties primarily for decoration; some others are sturdily constructed for heavy duty performance. Now in one switch these two features are combined — P&S Rocker-Glo. Rocker-Glo's design and action are such that it can be pressed, pushed, rocked or rolled. It has the basic rugged mechanism that insures long, trouble-free performance. Eventually all light switches may have a rocker action — like Rocker-Glo.

Rocker-Glo switches are AC switches designed to be used at full current rating on tungsten filament and fluorescent loads (one switch takes the place of two ordinary AC-DC switches on fluorescent loads). It can be used anywhere old style toggle switches are used.

Rocker-Glo's clean functional lines and soft beauty blend with any decor and add a touch of graceful charm to any type of building.

Available in Despard interchangeable type, Despard type mounted on a strap and narrow rocker for tumbler switch plates. A specification grade switch, 15 and 20 amps, 120/277 volts AC.

Write for free Rocker-Glo bulletin, Dept.PA-939

P&S SWYACUSE, INC.
60 E. 42nd St., New York, N.Y.
For more information, turn to Reader Service card, circle No. 305

Progressive Architecture
new luminous grillework

INFINILITE
the true non-modular suspended ceiling of infinite dimension

- Single wall-to-wall luminous expanse without supporting grids
- Circular louvers with restful brightness control ring
- 80% light transmission value—one of the highest known
- Snap-on panels for refreshingly simple installation

INFINILITE
is the dramatic architectural lighting answer to the problem of irregularly-shaped ceiling areas.
INFINILITE, created from a new, light-stabilized plastic, is first to offer Drop Strip fixtures with VTS. Diffusers to completely eliminate direct view of lamps through grillework. Where desired, a new Finish Edge Trim can be used to obtain a floating luminous ceiling, free of contact with walls. We invite your inquiry.

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For more information, turn to Reader Service card, circle No. 306
Specify Yoloy (nickel-copper low alloy) steel conduit to handle applications where greater strength, corrosion-resistance, and weldability are required.

Yoloy Conduit should be specified for electrical installations where corrosion is expected to be more severe than normal. Research has proved Yoloy resists corrosion 4 times longer than carbon steel in marine and industrial atmospheres.

Yoloy steels have proved highly resistant to corrosion in oil fields, coal mines, railroad cars, motor trucks and highway construction equipment for over a quarter-century. Long-time tests and actual installations have proved that Yoloy pipe lowers costs when used for salt water lines, oil wells, industrial installations and corrosive soils.

Corrosion studies conducted for 14 years in 13 different soils show that Yoloy has 19% less pitting and 36% less weight loss than carbon steel—and 10% less pitting and 23% less weight loss than wrought iron. This proved corrosion resistance greatly lengthens the life of coatings—galvanized or enameled—on Yoloy Conduit.

Check with your Youngstown Representative and get the complete story on how Yoloy Conduit and E.M.T. can easily meet your most exacting job specifications.

The Youngstown Sheet and Tube Company, Youngstown, O. Carbon, Alloy and Yoloy Steel.
The vast majority of curtain-wall buildings erected today employ structural mullions to frame glass (window) and spandrel panels, and to transmit wind loads to the structure. A newly-designed spandrel by Walter Dorwin Teague for Sharon Steel Corporation eliminates need for mullions in window and spandrel areas, reducing costs and increasing flexibility in curtain-wall design.

Teague’s system consists of panels of folded steel formed to cantilever up and down to glazed areas from small concealed clips anchored to spandrel beams. Stressed steel skin can receive lateral wind loads, over its own plus glazed area, and transmit them to spandrel beam and floor slab. Use of panel-to-panel seal would cause system to become completely self-flashing—eliminating, according to Teague, at least two trades from curtain-wall installation. In design of panels, Teague used “Sharonart,” textured surface steel, which can be plated, metalized, plasticized, and painted in a wide range of colors.

Advantages of system are: (1) elimination of structural mullions; (2) use of any spacing of glass division and any kind of sash—for instance, reversible sash where sash meet each other with own gaskets forming only member between them; and (3) design of skin may permit space-saving provisions (right) such as below-sill mechanical space, and window-head blind pockets, beyond column-beam line.

Sharon Steel Corporation
WALL ASSEMBLY PRODUCTS

Wall System Features Flexible Windows
"Fenwall" aluminum curtain wall system is designed on basic grid allowing highly adaptable ventilation arrangements. Numerous combinations of sash, including double-hung, casement, projected, top-hung inswing, and hopper windows can be used without special extrusions, adapters, or exposed fittings. System also features negative pressure holding device. This holding mechanism keeps grid unit in place under unequal pressure conditions, yet allows for horizontal adjustment and expansion or contraction. Single-source responsibility for system includes engineering, manufacturing, and assembly of all component parts at a factory. "Fenwall II" is custom wall without limitations on types, size, or arrangement of grid units.
Fenestra, Inc.

Tile Faces Curtain-Wall Panels
Hermosa "Triangle Tile" (shown in Arcadia Metal Products' new window wall, see JULY 1959 P/A, p. 93), finds new use as spandrel panels for window wall construction. Many effects are possible with wide range of colors available in tile line. Permanence of colors, together with easy maintenance of Hermosa's "Dura-Glaze" finish, reportedly provides long-range economy.
Gladding, McBean & Company

System Designed for Low-Rise Buildings
All-aluminum "Ador-Wall" is designed for one, two, and three-story buildings of wood frame, steel, concrete, or masonry construction. Horizontal windows and vents are free of obstructions. Basic 2"x4" mullion system is used throughout. System is designed for custom fitting and sizing to individual building requirements; utilizes any type of panel ranging from 3/16" to 3" thickness, and single, dual, and triple glazing.
Ador Corporation

Wall Sections Allow Design Versatility
"HV Trimline" dry-glazed wall construction system features horizontal and vertical members which allow architect to place emphasis where he wants it: horizontally, vertically, on exterior, or on interior. Basic components are aluminum extrusions containing keyed-in vinyl glazing strips. When framework is installed and glazed, vinyl compresses against glass or panel for positive and permanent resilient seal. "Perimeter Weather Bar" anchors and weatherproofs perimeter of installation with compression seals. Variety of face members and snap-in back members gives wide choice of glass line locations and design variations.
American Art Metals Company

Sealant Blends with Curtain Walls
Curtain-wall and building maintenance sealant is especially designed to blend with light-colored masonry materials such as marble, limestone, and concrete. "Weatherban" off-white sealer provides excellent adhesion to above materials plus metal, glass, porcelain, wood, and other standard building materials. When mixed with curing agent, sealant chemically cures in place to produce solid rubber seal with superior...
Adhesive and Coatings Division
Minnesota Mining & Manufacturing Company

Wall Blocks Are Three-Dimensional
Modular block of cast concrete designed by Austrian sculptor Erwin Hauer recently won a Design Award from Industrial Designers Institute. Blocks may be used to create exterior-interior walls, space dividers, and light-diffusing screens. Open, three-dimensional character provides constantly changing effect, depending on angle of vision and changes in direction and intensity of light. Shown is application of blocks at Vassar College Language Center, designed by Paul Schewikher and Winston Elting.

Large Plastic Curtain Walls Developed
Wasco office building, Cambridge, Mass., by The Architects Collaborative, uses 144" GP Acrylite panels for both exterior skin and interior panels. Panels are said to be world's largest cast acrylic sheets, available in sizes up to 144"x100". Thicknesses range from 1/8" to 1/4". May be formed in diamond shape as illustrated, or framed in metal. Also available with decorative embedments in maximum sheet size 36"x72"x1/8" or in thicknesses up to 2" on custom basis.

Building Panels Have Clean-Lined Look
Design of Hillsdale High School, San Mateo, Calif., by John Lyon Reid & Partners of San Francisco, utilizes "Cemesto" building panels. Units consist of laminated sheets of Celotex insulating fiber board to which cement asbestos facings have been bonded with moisture-proof adhesive. Panels possess high insulation value and structural strength. Cement-asbestos facings are wear, weather, and fire-resistant, and combine readily with other contemporary building materials. Metal battens with built-in neoprene gaskets aid in attachment of panels to modular-spaced steel framing.

Panel Wall Has Horizontal Sliding Sash
Window-wall unit known as "Sapphire Panel Wall" incorporates horizontal sliding sash. Individual sliding sash units containing panels are mullioned together to form walls for one-story buildings. Weight rests on sill, rather than being carried on mullions. Materials which may be used for infill panels include porcelainized steel, mosaic tile, and opaque glass. System can have "U" insulation factors exceeding those of 16" masonry wall. Company also produces "Sapphire Curtain Wall" for multi-story buildings.

Limestone Available for Spandrel Panels
Insulated, thin, and comparatively lightweight limestone panel has been developed for use as spandrel panel in curtain walls. Panel is 4" thick, composed of 2" limestone backed with 2" insulation. Inner surface of insulation is protected with asbestos-cement board or metal pan, depending on type of insulation, code requirements, and appearance (if surface is left exposed). Limestone is cut...
by Permyron permanent metal surface-coloring process. Units are 13' high by 5' wide, weigh less than 150 lb exclusive of glass. Window glass installs separately. Current installation is New York's Union Carbide Building, by Skidmore, Owings & Merrill.

Indiana Limestone Company

Fountains Add Excitement to Open Areas
Water-display fountains can be used imaginatively to enliven landscaping and add interest to façades of buildings. "Symphony" (shown) consists of 71 spray jets, in four tiers, individually regulated to desired heights. Comes with brass fitting valves and #4 pump. Price: $332. Also available are "Rainbow" (21 spray jets, #2 pump; $119); and "Plumes" (58 spray jets, four tiers, #3 pump; $265.33). Custom designs also made.

Canal Electric Motor, Inc.

Unique Styling Marks Juvenile Furniture
Lawrence Peabody has designed group of modular chests which may be stacked, or wall-hung by removing legs. Finished in walnut, cases have porcelainized ceramic pulls, 29" high, 34" wide, 17½" deep. Sliding door storage chest has reversible doors, cane-paneled or enameled in bright color. Bench shown is storage box with seat supported by friction hinge to protect child from falling lid.

Child Craft Division
Smith Cabinet Manufacturing Co., Inc.

Curtain Walls Have Black Matte Finish
Self-contained curtain walls using black matte stainless steel are complete with window frames, spandrel and column panes. Sandwich-built spandrel panels consist of textured stainless steel outer sheet, impregnated asbestos honeycomb core, and aluminum backup sheet. Panels are colored by Permyron permanent metal surface-coloring process.

Union Carbide Corporation

Real Gold Added to Curtain Wall Product
"Goldtex" curtain-wall spandrel material has 22-karat gold applied to raised or bossed parts of textured metal base which has first been processed with colored porcelain enamel. Same fabrication principle applies to "Colortex," with exception that porcelain enamel provides secondary color in lieu of gold.

Wolverine Porcelain Enameling Company

Recent Designs Announced for Panels
Custom-order line of reinforced fiberglass "Designer Group" debuts with three designs. "Florentine Lace" (shown) is silk screen lace design on woven natural fibre. "Our Town" is reproduction of cityscape drawing by Edward Wormley done for Stimulus collection of Schiffer Prints; and "Venetian" is stained-glass motif on silkscreen rice paper. All designs embedded between fiberglass surfaces, and available in lightweight and structural gages.

Barclite Corporation of America

Danish-Designed Chairs Introduced
New additions to the Danish Craftsmen group are two new architect-designed armchairs of subtly-sculpted Oriental teak. Both the Kindt-Larsen chair and the one by Finn Juhl (shown) are available in linen, leather, Danish wool fabrics; with hand-rubbed oil or lacquer finishes. Chair shown (31½" wide, 30" deep, 30" high) retails in muslin for approximately $117.

John Stuart, Inc.
NEW-TYPE NORTON DOOR CLOSERS AN ARCHITECTURAL ASSET IN THIS MODERN MICHIGAN SCHOOL!

A continuing series of outstanding schools, office buildings, hospitals, churches, and industrial structures using NORTON DOOR CLOSERS

HIGH SCHOOL: MICHIGAN CENTER, MICH. WARREN HOLMES COMPANY ARCHITECTS
HARDWARE DISTRIBUTOR: SCHABERG DIETRICH HARDWARE CO., LANSING, MICH.

Employs unique corner-type Norton Door Closers to complement clean-lined modern door design.

Thoroughly modern in appearance, this school is equally modern in every item of functional equipment, including Norton Door Closers. Of particular interest among the latter are the Model 750 corner-type Norton Door Closers used on principal entrance doors.

Model 750 was specifically designed to blend unobtrusively with the narrow rails and stiles so popular in present-day doors. The shell is extruded from a very strong, durable, 100%-seep-proof aluminum alloy. Arms are completely concealed when the door is closed. Full rack-and-pinion mechanism offers the ruggedness, dependability and precision workmanship common to all Norton Door Closers.

Other Norton models are available to satisfy every door-closer need. Write today for full information about all models, including the new Trimline series.

NORTON DOOR CLOSERS

Dept. PA-99, Berrien Springs, Michigan

For more information, turn to Reader Service card, circle No. 308
Prefab Curtain Walls Are Ceramic Faced

Ceramic-faced prefab curtain wall and partition units, for installation in standard or specially-designed framing system, are available in varied types to suit any requirement. Tile facings are furnished as selected or to specification—come in 79 standard colors for maximum flexibility in wall treatment, are available in mosaic patterns of geometric and abstract design, and in nine scientifically developed colors for functional application in industrial, institutional, and commercial installation.

The Cambridge Tile Manufacturing Company (Continued from page 109)

System Provides Perimeter Cooling

"Wall-Line" perimeter air conditioning provides continuous flow of cool air along outside wall where most summer heat enters. Unit is said to circulate air in room evenly to eliminate "dead spots." Air-flow pattern in cutaway shows:
1. fans push air through ducts providing conditioned air along perimeter wall;
2. UniTrane air conditioner circulating chilled or hot water, cooling or heating as it passes over coils;
3. 1/2" insulation resists temperature loss and also acts as sound deadener;
4. after air has circulated, it returns to be cooled or heated through air intakes; and
5. if partition is placed over spacer between units during change of partition arrangement, air would recirculate to UniTrane air conditioner by intake under shelves.

The Trane Company

New Pattern Added To Budget Vinyl Line

Non-directional pattern called Harvest uses gold and white on a base color with tiny glitter highlights. Available in 9"x9" tiles, color range of 10 colors, the tile is germ-proofed with Anti-Septic to prevent and inhibit the growth of bacteria.

Amtico Vinyl & Rubber Flooring Division
American Biltrite Rubber Company

Plastic Light Panels Are Non-Combustible

Non-combustible louver diffuser panels are completely non-electrostatic, meaning they repel dust and dirt and require virtually no maintenance. Material reportedly will not sag, buckle, warp, or bend, and is scratch resistant. "NC Gratelites" come in 24"-sq panels, have UL approval, with listed flame-spread rating of 25.

Developed by Edwin F. Guth Company and Plastics and Coal Chemicals Division of Allied Chemical Corporation.

Edwin F. Guth Company

Color Available In Glass Block

Color is now added to hollow glass block during forming process. New block has blue-green color chosen for its cool appearance and ability to reduce sun brightness and solar-heat transmission. Block is most effective when used on east and west exposures which receive strongest, most direct sunlight. Process enables blue-green glass and colorless glass to be drawn from melting furnace at the same time. Colored block available in 8" and 12" sizes.

Kimble Glass Company, subsidiary of Owens-Illinois

Curtain Walls Have Asbestos-Honeycomb Core

Impregnated asbestos-honeycomb core for use in curtain wall panels has great compressive strength (125 psi) and rigidity. Material is reportedly resistant to temperature and fire, and is unaffected by humidity, water, and vermin. Available in two types: Type X for exterior curtain wall construction; Type I for interior partitions. Has wide range of uses in other applications. Can be tailored to exact requirements.

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The Only Luminaires Made with All These Advantages!

Featuring Holophane PrisMacon®

Series 6400

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Totally New!... Recessed 2-Foot Wide Luminaires...
WALL ASSEMBLY PRODUCTS

Porcelain Enamel in Architecture
Booklet describes uses of porcelain enamel in curtain-wall construction, including its advantages: permanent colors, weather resistance, durability, ease of maintenance, possibility for varied textures and finishes. More than 20 installations are shown, some in full color, with curtain-wall details. Section on design factors deals with panel manufacture and erection. Partial listing of completed porcelain-enamel curtain-wall projects is given. Companion booklet is Porcelain Enamel in Architecture: Part I, Veneer-Type Construction.

Porcelain Enamel Institute, Inc. (AIA 17-A, 28-p.) 201

Neoprene Gaskets for Curtain Walls
Booklet presents case for a solution to problem of sealing glass and panels into curtain walls—compression seals of neoprene synthetic rubber. Results of hurricane tests and earthquake tests of products are given; and two notable installations—New York International Air Terminal and General Motors Technical Center—are shown in photographs and details.

Elastomer Chemicals Dept.
E. I. du Pont de Nemours & Company, Inc. (AIA 17-J, 12-p.) 202

Ceramic Veneer Color Guide
Four-color brochure provides color selection guide for architects specifying ceramic veneer for curtain wall and other uses. Colors were chosen by color consultant Faber Birren from products as manufactured by members of Architectural Terra Cotta Institute. Actual samples may be had on request from manufacturers listed in brochure.

Architectural Terra Cotta Institute (AIA 9, 4-p.) 203

Modular Panel Systems
"Panelfab" building panel is stressed-skin sandwich composed of phenolic impregnated Kraft honeycomb core with interior and exterior facings laminated with phenolic resins under heat and pressure to form one-piece construction with high strength-to-weight ratio, torsional rigidity, and dimensional stability. Booklet shows details of construction and use of Panelfab for interior wall and roof applications.

Panelfab Products, Inc., (AIA 17-A, 8-p.) 204

Wall Systems for High- and Low-Rise Buildings
Window unit of standard design serves as basic window unit for "Bayley System" in either curtain-wall or window-wall construction. Three designs in either vertical or horizontal assembly systems are illustrated in booklet: series 450 and 250 for curtain-wall buildings, in which windows, glass areas, and panels are mounted in a sub-frame; series 150 for window walls, where windows themselves form interlocked wall assembly. Details of various applications given.

The William Bayley Company (AIA 17-A C-59, 20-p.) 205

Lightweight Insulating Cellular Concrete
"Cellcon" is lightweight insulating cellular concrete for core material in metal type sandwich panels and pre-cast concrete sandwich panels for curtain-wall construction. Currently being used in Executive House, downtown motel in Detroit, Cellcon is described in text and installation and detail photographs.

Cellular Concrete Corporation (AIA 37 B-1, 4-p.) 206

One-Piece Neoprene Gasketing
Entire perimeter of "Inlock" neoprene structural gasket is "fused into a continuous one-piece setting member." Booklet describes advantages of gasket, including ease of replacement of windows or panels. Installation and test data given, plus recent installations, numerous cross sections, method of glass or panel size determination, installation procedures, architectural details for various applications.
information on filler strips and installation tools, and order, warranty, and specification data. Also included is "doodle" page, given "to suggest a few other Inlock Gasket design ideas."

Inland Manufacturing Division
General Motors Corporation

AIR AND TEMPERATURE

Convectors Gives Floor-to-Ceiling Comfort
Catalog describes Perma-Trim wall-to-wall continuous convector for large window area installation, combining high heat capacity of convector design with advantages of finned tube radiation. Unit may be installed directly beneath window sill. Incorporates 1" O.D. tubes which eliminate stacking of heating elements within enclosure, resulting in lower installation costs. Features prevent wall streaking, take care of irregular wall surface problems. Available in sloping top outlet and face outlet types with full line of accessories such as end caps; extension sleeve corner pieces permit extension of total enclosure length to 12' at each end. Sizes: 4"x6" depths; 10", 14", 20", 26" heights; 3' through 8' lengths.

Modine Manufacturing Company (Bulletin 259-A, 12-p.)

Climate Control in One Compact Package
Folder shows components of air-conditioning package for use in buildings such as stores, restaurants, other types of service establishments—and for modernization of larger buildings where multiple units rather than central station installation, are preferred. Provides completely self-contained package, easy-to-install with or without ductwork. Available in water- and air-cooled models in sizes from 3 through 15 tons.

Acme Industries, Inc. (Catalog 571, 4-p.)

Packaged Heating Provides Zone Control
Brochure describes advantages of hot-water packaged baseboard heating system for homes, suited especially to split-level and ranch types, which provides independent thermostats to control individual living areas for the most efficient and comfortable heat distribution throughout home. Features include low installation cost, no wasted heat, simplified servicing. Drawings show inconspicuous appearance of baseboard system, how it operates, and method of installation.

Edwards Engineering Corporation (Brochure SLC-1, 8-p.)

Dry-Web Space Filter Offers Efficiency
Bulletin covers performance and construction details of Dustflee space filter for air filtration in industrial and commercial fields including all types of processing and manufacturing plants. Certified to be at least 85% efficient on NBS Atmospheric Air Stain test, filter claims same efficiency as electrostatic precipitator without high moving cost and possibility of arcing "blow-off." Contains no moving parts, is not oiled; filter web in dry state effectively holds dirt. Unit has capacity of 1000 SCFM. Stocked in 231/2"x231/2"x57/8" size fitting into 24"x24"x8" frame—available in other face sizes. The 57/8" depth remains constant. Installation details included.

Mine Safety Appliances Company (Brochure 1505-6, 8-p.)

Gas-Fired Intake Units
Bulletin describes series of gas-fired intake units for supplying outside air to replace air removed by industrial exhaust systems, which achieve nearly 100 percent combustion efficiency by burning natural or propane gas in line-of-flame burner directly on entering airstream. Can be mounted on roof or in wall opening and used with or without duct systems for air distribution. Units are made up to specifications from 2, 4 or 6 million BTU per hour, with air volumes of 25, 50 and 75 thousand CFM. Available with fan and accessories to meet requirements.

Hartell Propeller Fan Company (Bulletin A-115, 2-p.)

Heater Solves High Ceiling Heating
Bulletin covers features of high-ceiling downflow gas heater designed for efficient heating from as high as 40’ above floor level. Heater is direct-fired, consists of duct furnaces with automatic controls, propeller-type fan assembly, and screened, bell-mouthed intake boots, louvers that adjust to distribute heat to specific areas or for spot concentration. Standard specifications include aluminized steel heat exchangers and on-off gas valves with 115 or 230-v controls. Available in four basic sizes from 300,000 to 600,000 BTU—may be installed in multiples for greater capacities. A 4-way diffuser for hemispherical distribution over a wide area is also available.

Reznor Manufacturing Company (4-p.)

CONSTRUCTION

Moistureproof Insulating Structural Panel
Folder describes construction of Transitop 4'x8' wall panel which consists of integrally impregnated insulating board core faced on both sides with special noncombustible asbestos-cement board, bonded with colorless waterproof adhesive. Combines unusual structural strength, high insulation, maintenance-free interior and exterior finish in a single fire-resistant panel that is easy to apply over wood or steel framing. For general building construction and general commercial and industrial applications. Comes in natural grey with high light reflection. Table of physical properties, detail drawings, photos included.

Johns-Manville Corporation (8-p.)

Control of Industrial Vibration, Shock, Noise
Booklet gives engineering specifications and performance data for 27 types of products for control and measurement of machinery vibration, shock, and noise. Contains detailed discussion of relative merits of steel springs and organic materials as isolation media, selector chart covering wide range of equipment showing recommended and alternate methods of isolation; also indicating when concrete foundations are necessary. Actual installation photographs show (Continued on page 138)
Another D & H First!
The NEW SLIDING PyroDor
The Forward Look in Fire Doors!

PYROMATIC RELEASE

Outmodes OLD-TYPE FIRE DOORS

UNDERWRITERS' LABELED
3 HOUR TEST
Plus Lowest Heat Transmission

WHY D & H SLIDING PyroDoors ARE OUTSTANDING—
• CONTEMPORARY FLUSH DESIGN, SMOOTH LOOKING, Interlocking Panel Sections.
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• NEW UL Labeled D&H PyroMatic Fire Door Release.

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BUILDING SEALER TAKES VIOLENT LASHING

Even severe underwater turbulence can't blast through the seams of this glass panel tank.

The test above proves the toughness of 3M's new WEATHERBAN® Sealer. Shows why curtain wall construction can be lightweight, leakproof!

WEATHERBAN Sealer adheres strongly...cures without shrinkage to a durable, solid rubber seal that flexes, stretches, compresses with wall movement. And during winds as high as 140 mph by actual test, it cushions glass to guard against breaks and cracks.

It seals for years, too, despite sun, ice, even winds of hurricane fury.

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Now available in four colors: aluminum, black, tan and off-white. For glass, stone and metal installations.

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Consult 3M Research. Contact your 3M Field Engineer. Or for information and free literature, write on your company letterhead to 3M, A.C.&S. Division, Dept. YD-99, St. Paul 6, Minn.

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...WHERE RESEARCH IS THE KEY TO TOMORROW

For more information, turn to Reader Service card, circle No. 311
variety of equipment, how typical problems have been solved.

The Korfund Company, Inc. (Bulletin K4E, AIA 39D, 8-p.) 215

Building Products and Services
Technical manual is divided into six separate catalog sections detailing engineering data and specifications for each of the following commercial building elements: metal curtain walls, metalclad fire walls, rolling steel doors, electrified M-floors, long span M-decks, steel roof decks, acoustical and troffer forms, acoustical ceilings, structural steel, steel plate components. Diagrammatic drawings and photographs accompany text; section with construction details for drafting room use is included.
The R. C. Mahon Company (100-p.) 216

Suggested Ideas for Design with Redwood
Data sheets suggest ideas for uses of redwood. Redwood Ceilings contains material covering variety of ceiling designs, examples of redwood plank-and-beam construction. Redwood Grillework displays examples of redwood used for grills, screens, louvers, and dividers. Most recent revision of Garden Redwood—has as primary change the inclusion of new RIS grademarks.
California Redwood Association (8-p.) 217

★ Color in Movable Metal Partitions
Presentation contains comprehensive data on line of versatile Mobilwall movable metal partitions to suit every layout requirement including office, school, hospital, etc., now available in enduring Permacolor finish, in full range of colors. Company service includes free planning help and follow-through with field installation by factory-trained crews. Also continued rearrangement service, and continuous "open-stock" supply of interchangeable units and accessories for additions or replacements. Photos of existing installations, detail drawings, index of partition types and accessories, included.
Virginia Metal Products, Inc. (AIA 35-H.6, 60-p.) 218

Craftsmanship in Concrete
Data sheets contain comprehensive information on mixing and application of concrete in cold and hot weather conditions. Sections deal with causes of cracking, dusting, and
America's Architects select VAMPCO ALUMINUM WINDOWS, Curtain Walls and Entrance Doors for Modern Homes, Schools, College and Commercial Buildings

The attractive new Kellogg Center at Michigan State University, Lansing, Michigan (pictured above) has Vamco 2000-series 2" Aluminum Curtain Wall fenestration and Vamco Aluminum Entrance Doors. It is a fine example of how architects and builders are using Vamco Aluminum Windows, Curtain Walls and Entrance Doors to provide modern, streamlined beauty...functional design...structural strength and durability. This is one of over 12,000 schools now using Vamco Aluminum Windows.

Vamco Aluminum Windows for every type of construction are available in casement, combination casement, awning, intermediate projected, curtain walls of varying sizes and thicknesses, heavy ribbon, window walls, glass block and custom designed types. Vamco also manufactures a complete line of Aluminum doors, frames, side lights and transoms. For complete illustrated literature, mail coupon below, today.

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crazing, show how these failures can be avoided. Drawings illustrate step-by-step procedures to follow to obtain a weather- and use-resistant concrete surface. Alpha Portland Cement Company (4 bulletins)

Factory-Assembled Window Wall
Brochure covers line of window wall systems for use in institutional, industrial and commercial buildings, claiming savings to 40% in erection costs where factory-assembled units are utilized. Constructed of heavy-duty aluminum engineered for strength, with integrated horizontal gliding aluminum windows. In addition to factual data and specifications, a cutaway isometric illustration of a typical window wall section, quarter size detail drawings, illustrations of typical arrangements showing design and construction flexibility, are included.

Whizzer Industries, Glidorama Division (AIA 17-A, 6-p.)

Steel Beams Speed Construction
Polder gives specifications, details and properties of lightweight Diamond Span-R beams, designed to support floors and roofs over long and short spans between beams, walls and girders in all types of structures. Open-web structural steel offers advantage of fast construction, are completely fabricated, ready for immediate placing; eliminate complicated bridging, readily accommodate ductwork and conduits, are fire-, vermin-, and sound-resistant. Esthetically pleasing when used as exposed members.

Elizabeth Iron Works, Inc. (AIA 13-G, 6-p.)

ELECTRICAL EQUIPMENT, LIGHTING

Geometric Shapes in Danish Fixtures
Catalog illustrates line of imported Danish lighting fixtures which form co-ordinated group of ceiling fixtures, wall brackets, desk, table, and floor lamps. Ingenious designs derive from four elements of basic geometrical shape.
National first place award winning H. I. C. Home in Eugene, Oregon, is pictured below. Par-TILE was specified.

The most beautiful practical floor of all

Par-TILE now used in homes, schools, office and industrial buildings, hospitals, hotels, apartments, motels, restaurants, gymnasiums and dance floors.

NATURAL WOOD BLOCK FLOORING

Architects, builders, engineers and designers are now specifying beautiful new Par-TILE natural wood block flooring in all type constructions. Par-TILE's density of 55 lbs. makes it extremely durable and highly resistant to wear, yet is resilient and easy to walk on. Will not dent under heavy furniture... Truly the finest floor in the world.

- mar and stain resistant
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- economical
- pre-finished
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- flexo-grid scored back
- square or eased edge
- easy to install
- easy to maintain
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  (other sizes available on special order for industrial uses.)

Manufactured by
Pacqua, Inc.
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Available in all plastic, or combination of white acrylic plastic and lacquered mat sprayed metal in the following colors: black, mustard, coral and sand—smooth surfaced plastic provides clear, soft light, does not discolor. Many fixtures can be made for pulley suspension, wall mounting, or special groupings, and custom-made chandeliers can be ordered to specification.

Architectural Lighting Corporation (44-p.) 222

SPECIALIZED EQUIPMENT

Master Television Antenna Systems Manual, Recommended Practices For the Design and Installation of Master Television Antenna Systems, points out need for including plans for television systems in original designs—details criteria for antennae, amplifiers, and distribution. Comprehensive diagrams are included, showing types of systems that may be encountered in design. Various examples of system design are illustrated, and appropriate and necessary tables are supplied. Entron, Inc. (6-p.) 223

Solar Screens in Lasting Color Bulletin illustrates ceramic veneer open grill solar screens in various designs and geometric patterns, available in wide range of enduring colors. In addition to standard units illustrated, grills may be ordered custom-made, at slightly higher cost.

Federal Seaboard Terra Cotta Corporation (4-p.) 224

SURFACING MATERIALS

★ Specifications for Ceramic Wall Tile

American Standard Specifications for Glazed Ceramic Wall Tile, Ceramic Mosaic Tile, Quarry Tile and Pavers, Installed in Portland Cement Mortars, including requirements for related divisions, approved by the American Standards Association, supersedes Tile Handbook originally issued in 1951. Participants in preparation were manufacturers of ceramic tile in U.S., working in co-operation with representatives of AIA, Bricklayers, Masons & Plasterers International Union, tile contractor associations, other related industries in this country. Approved by ASA. Specifications do not include installation of ceramic tile with adhesives or with new dry-curing mortars—latter are in process of revision for near future issue.

Tile Council of America, Inc. (28-p.) 225
Now... Choose from 3 basic Wayne gymnasium seating systems to meet your budget

Match your seating to your dollars and save. Choose from a complete line by the world's largest manufacturer of spectator seating.

With economy as the watchword in today's new school construction, it will pay you handsomely to look into the only line of gymnasium seating that offers a choice of three budget ranges... an outstanding, efficient seating system for each! Every Wayne model is engineered with the important attention to detail that assures longer life, smoother performance, lower maintenance costs... more seating efficiency for your money! Check these three Wayne values before you decide on any seating at any price! Write for catalog data today!

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Big favorite in value-packed luxury seating, the model that made the Wayne name famous in spectator seating. Features include: Wayne vertical front design, smoother, easier operation, uniform load distribution, completely closed risers, fine woods, finished to a rich lustré, and other Wayne engineering advantages. Feature for feature, dollar for dollar, this is truly the champion in conventional gymnasium seating.

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Another Wayne exclusive! Folding Bleacher-type seating engineered from the wheels up for long trouble-free life, easy operation and maximum seating. Enameled steel, diagonally cross-braced rock-solid understructure, gleaming finished woods. Investigate the Model 30 now and let us show you its dollar-in-hand savings over any price quotation offered you on any folding bleacher anywhere.

WAYNE IRON WORKS, WAYNE, PA.

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**CHEMICAL NEWS for designing people**

Products of the chemical industry are becoming increasingly important to good design and construction in the building field. To architects, no less than to builders, these products are essentially tools of design whose use makes construction and maintenance easier or more economical, or provides new benefits. This report is one of a series designed to give architects a quick look at some of the most modern of materials, and how they fit modern design needs.

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**ARCHITECTS** — For more information about Scorbord or for copies of a Sweet’s catalog insert, write to THE DOW CHEMICAL COMPANY, Midland, Michigan, Department 1603EB9.

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**SCORBORD® Properties**

<table>
<thead>
<tr>
<th>Insulation Type</th>
<th>Width</th>
<th>Length</th>
<th>Density</th>
<th>Compressive Strength</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vertical Perimeter Insulation</td>
<td>3&quot;</td>
<td>9&quot;</td>
<td>8 feet</td>
<td>2,000 lbs/sq. ft.</td>
</tr>
<tr>
<td>Horizontal Perimeter Insulation</td>
<td>8 feet</td>
<td>8&quot;</td>
<td>24 inches</td>
<td>2,000 lbs/sq. ft.</td>
</tr>
<tr>
<td>Cavity Wall Insulation</td>
<td>3&quot;</td>
<td>8 feet</td>
<td>8&quot;</td>
<td>2,000 lbs/sq. ft.</td>
</tr>
</tbody>
</table>

**Thermal Conductivity**

- Less than 0.28 at a mean temp. of 40°F.

**Water Resistance Properties**

- Capillarity—none
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Looking Forward to October

PROGRESSIVE ARCHITECTURE

TRENDS IN HOSPITAL PLANNING

October P/A will examine—in presentations of two recent health structures and three outstanding student project theses (from Yale and Carnegie Tech)—the state of planning for health facilities in the U.S., and what trends are likely to become apparent in this field in the future. The completed buildings to be presented are: Rehabilitation Center, Stamford, Conn., by Sherwood, Mills & Smith; and Fisher-Titus Memorial Hospital, Norwalk, Ohio, by H. E. Beyster & Associates, Inc., Architects-Engineers.

THE ARCHITECT & HIS COMMUNITY:

JYRING & WHITEMAN

The next in P/A's Architect & His Community series will be devoted to the practice of Jyring & Whiteman, Hibbing, Minn. Situated in the midst of the ore-rich Mesabi Iron Range, this firm has a continually-expanding practice currently doing projects worth approximately $6 millions. Included in the 12-page article will be examples of the firm's designs for public buildings, schools, and religious buildings.

THE NEW SENSUALISM II

P/A's critique of the "sensualist" trend in American architecture—began in the current issue—will conclude in October. This examination of a subject of interest to most architects should stimulate a great deal of new thinking on this important topic.

Interior Design Data in October will document two clinics. One, by Robert Billsbrough Price, is in Puyallup, Wash., the other, by Thorshov & Cerny, in Watertown, S. D. Materials and Methods articles will be concerned with air heating and ventilating of classrooms, museum lighting, and more of the imaginative structural concepts of Paul Chelazzi (including proposals for a 300-story skyscraper).
To provide all the necessary facilities, and yet stay within the limited budget allowed for the Sentral Community High School, required the most economical construction methods and materials available. By using laminated wood beams the architects, Haarstick Lundgren and Associates, Inc., were able to do this without sacrificing warmth and utility. The beams arrived on schedule, were quickly erected by the regular job crew and, because of their inherent beauty, were left exposed. The result was a big savings of time, labor and material.

Rilco Laminated beams and arches resist warping, splitting, cracking — require no painting — actually improve in beauty with age, taking on a richer, warmer appearance.

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Rilco Laminated arches and beams can help you solve design and cost problems on your structures — whether they're schools, churches, residences, industrial or commercial buildings. For information on how to build better for less, contact your nearest Rilco office.