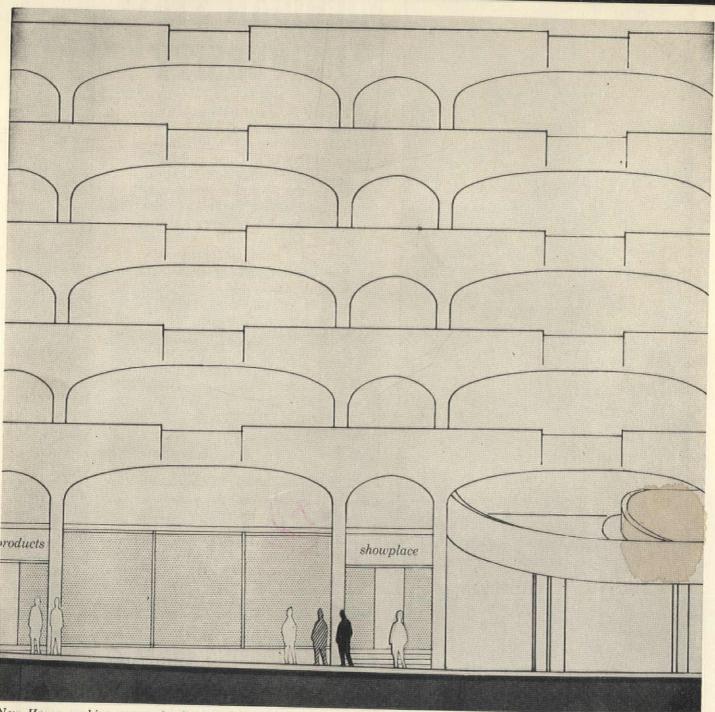
PROGRESSIVE ARCHITECTURE SEPTEMBER 1960

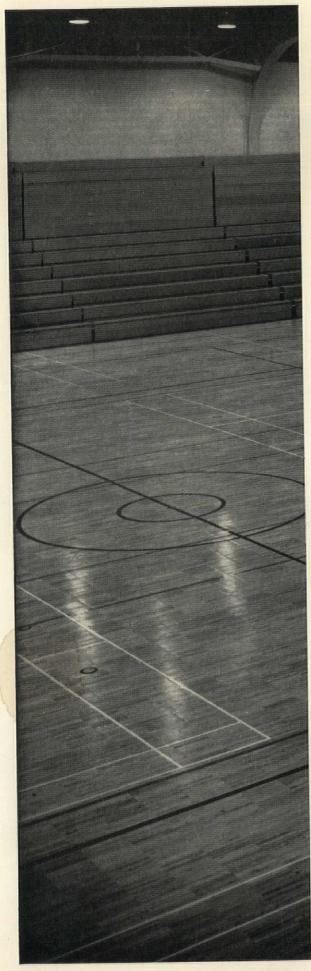
NEWS REPORT

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



New Haven parking garage by Paul Rudolph will have two-block frontage, recall Roman walls and aqueducts.

- 51 MURUS RUDOLPHUS FOR NEW HAVEN
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- 97 MANUFACTURERS' DATA



79,000 sq. ft.

of smooth, resilient beauty for

MICHIGAN STATE UNIVERSITY

The 60,000 sq. ft. Ironbound* Continuous Strip* Hard Maple Floor installed in the new Men's Intramural Sports Building at Michigan State brings MSU's total Ironbound floor area to approximately 79,000 sq. ft. This includes Ironbound floors in gymnastic areas, squash courts, exercise rooms and handball courts in the new building and the 19,000 sq. ft. installed in 1958 in MSU's Women's Gym, shown below.



Ironbound floor in MSU's Women's Gym. Arch: Ralph R. Calder, Detroit; Installer: Bauer-Foster Floors, Inc., Detroit



May we tell you of the many benefits Ironbound offers you? For information and name of your nearest authorized installer, write Robbins Flooring Company, Reed City, Michigan, Attn: Dept. PA-960.

ROBBINS FLOORING COMPANY

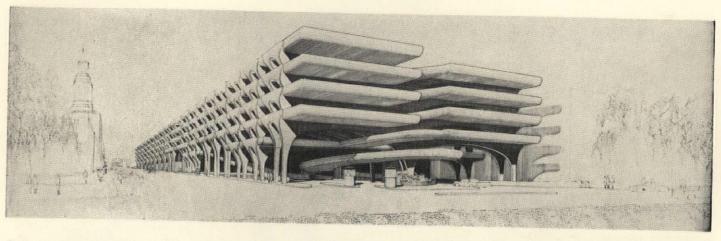
Reed City and Ishpeming, Michigan

Manufacturers of Ironbound* Continuous Strip* Maple Flooring, Perma-Cushion† Resilient Floor Systems and other hardwood flooring

*T.M. Reg. U.S. Pat. Off.

†U.S. Pat. No. 2862255

Background photo is Ironbound floor in Men's Intramural Sports Building, Michigan State University, East Lansing, Mich. Arch: Lewis J. Sarvis, Battle Creek, Mich.; Installer: Bauer-Foster Floors, Inc., Detroit. Flooring Dri-Yac treated.



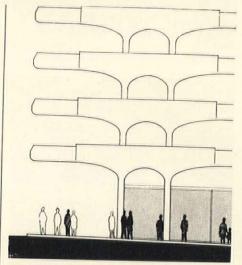
Sensually Structured Parking Garage by Rudolph

Design Sprang from Engineering Requirements

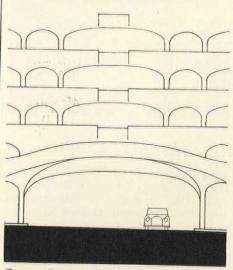
NEW HAVEN, CONN. A two-block-long parking garage which at least one observer has compared to a Roman wall has been announced for the City of New Haven. The garage, designed by Paul Rudolph, Chairman of Yale's Department of Architecture, will have a 1487-automobile capacity, plus 41,-400 sq ft for shops and stores.

The structure will be bounded front and rear by Church Street and Temple Street, and at either end by Crown Street and North Frontage Street. George Street will penetrate the center of the building. Entrance and exit ramps will occur at either end, and on either side of George Street. There will be three entrance-exit ramps at each typical level. Levels will alternate back to front, providing ten parking areas above ground. Levels will measure 10 ft apart from top of slab at outside face of column to top of slab at the same point. Four elevators and three sets of stairs will provide for vertical circulation of Two underground parking patrons. levels will accommodate 378 cars. According to Rudolph, these basement levels will be connected with a hotel which will be built to the north of the garage.

The ground floor will contain specialty shops and a department store, the latter to have a 2900 sq ft mezzanine at the second level. Storage space for these merchandising facilities will be included in the basement. Rudolph's plans indicate, but do not include, a shopping mall to bridge Crown Street at the third or fourth levels. The ground floor will be arcaded all along the Church Street and Temple Fronts in a series of alternating narrow and wide arches. The shops and department store will open off these arcades and have glazed show windows facing



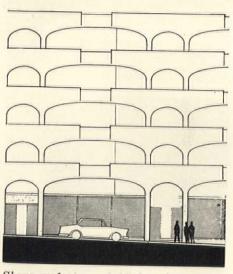
Parking levels will project past columns at North Frontage Street end.



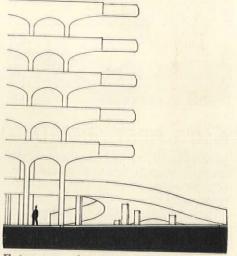
George Street will penetrate building at midpoint, have garage ramps.

on to the streets.

Asked about the structure of the garage, Rudolph stated: "The plasticity of the structure comes from the engineering requirements and forming of the concrete rather than the mechanical systems. In point of fact,



Shops and stores behind arched arcade will invite pedestrian trade.



Entrance, exit ramps will extend out from Crown Street end.

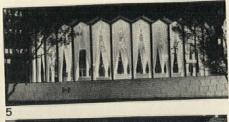
the upper portions of the Garage are open, and not mechanically ventilated."

Structural engineer: Henry A. Pfisterer; mechanical engineer: Jerome F. Mueller; parking consultant: Wilbur Smith & Associates; design consultant: E. A. Barton & Associates.

















AISC'S FIRST ARCHITECTURAL AWARDS GIVEN

NEW YORK, N. Y. Thirteen winners of the first awards for architectural excellence in use of structural steel have been announced by the American Institute of Steel Construction, Inc., sponsor of the annual awards.

Award-winning buildings shown above are: 1 National Bank of Detroit by Albert Kahn Associated Architects & Engineers, Inc.; 2 Church of Our Saviour by Cochran, Stephenson & Wing, Baltimore; 3 Bartlett Mountain Retreat Cabin by David Thorne, Berkeley, Calif.; 4 The Southland Center by Welton Becket & Associates, Los Angeles; 5 American Trust Company Bank by Skidmore, Owings &

Merrill, San Francisco; 6 Harvest House Hotel by Ralph D. Peterson & Associates, Denver; 7 Bloomington High School Gymnasium by Lundeen & Hilfinger with Schaeffer, Wilson & Evans, Bloomington, Ill.; 8 National Maritime Union Building by Ledner & Saputo, New Orleans; 9 Children's Hospital of Pittsburgh by Alfred D. Reid Associates, Pittsburgh. Not shown are St. Ann's Catholic Church by Martin & Lemmon, Andrews, Texas; Dudley High School Physical Education Building by Lowenstein-Atkinson, Greensboro, N.C.; and Red Bud High School Gymnasium by Clarence H. Glass, Decatur, Ga.

World's Tallest Hotel for N. Y.



NEW YORK, N. Y. The tallest hotel in the world with the largest banquet and restaurant capacity of any hotel in the world has been announced for the West Side of New York by Loew's Theatres, Inc. Designed by Morris Lapidus, Kornblath, Harle & Liebman, creator of several of Miami Beach's most uninhibited hostelries, the hotel will have 50 stories—each of which "will be dedicated to one of the states of the Union"

of the Union." The "Americana West" (an "Americana East," also by Lapidus, was announced recently) will rise on Seventh Avenue between West 52nd and West 53rd Streets. The 2000-room hotel will be faced with honey-colored, glazed brick and white Vermont marble, with window frames of stainless steel. A year-round swimming pool will occur at the 25th-floor setback. Public rooms at the lobby level will include two large restaurants, coffee shop, specialty restaurant, and bar. The upper level will contain a supper club. The grand ballroom and private dining rooms will be approached via their own entrance on 52nd Street. A 30,-000 sq ft exhibition hall will be accessible from street level.



Gruen Plans 2000-Acre Australian Community

Country Club To Be Center Of Informal Community

MELBOURNE, AUSTRALIA Across Port Phillip Bay from this city, a complete new town designed by an American firm is scheduled to rise. Clifton Springs will be a residential, countryclub community within 20-minute commuting distance of fast-growing Geelong, and an hour and twenty minutes from downtown Melbourne.

Victor Gruen Associates have created a community which will not only house hundreds of families, but also will provide week-end and vacation accommodations for visitors from Melbourne and other cities. Parks, beaches, tennis courts, bowling greens, swimming pools, marina, mineral springs pavilion and golfing facilities will all be at the disposal of the tourist as well as the resident. Family and social life is expected to center around a large, well-appointed country club overlooking the fairways on one side and the bay on the other. Within easy walking distance from the clubhouse grounds will be a commercial center (above) designed to serve all the needs of Clifton Springs except for durable hard goods available in Geelong. Included in this center will be a supermarket, clothing stores, drug store, services such as laundry and barber, a large variety store,



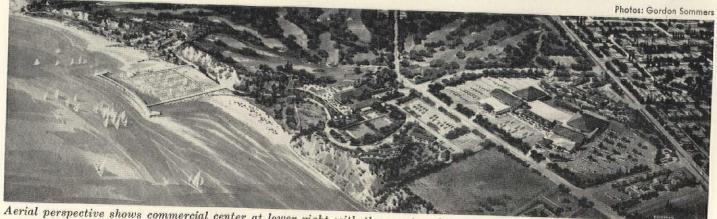
1 clubhouse, 2 commerce, 3 motels, 4 single residences, 5 multiple residences, 6 golf course, 7 driving range, 8 marina

specialty shops, and a garage-service station. Motel cottages for visitors will be grouped informally along the shore, some near the country club and a larger group hard by the mineral springs whence the town gets its name.

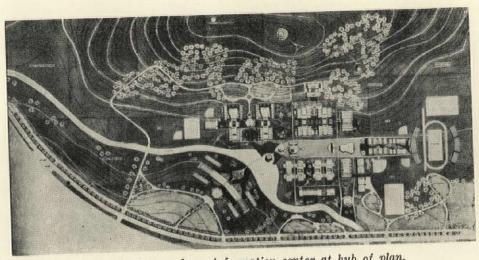
The architecture of the community will be relaxed and comfortable, featuring low, overhanging, clay tile roofs, masonry walls, collonades and courts, and natural landscaping.



Motel cottages informally arranged.



Aerial perspective shows commercial center at lower right with the country club and golf courses to its left.



Grand Prize winning design places information center at hub of plan.



Relationship and scale of buildings appealed to the Awards Jury.

Education-Recreation Center Theme of Competition

Program Second to Explore Planning for Towns

VAILS GATE, N.Y. "The annual national architectural competition sponsored by the Mastic Tile Division of The Ruberoid Company is one of those too infrequent manifestations of the large corporation willing to spend a significant sum of money to explore and develop the building culture of the nation beyond the immediate consequence of the sale of the corporate product." So spoke Henry L. Kamphoefner, Dean of the School of Design at North Carolina State College, at the termination of his duties as Jury Chairman for the second annual Mastic Tile architectural competition.

The competitions are based on architectural design and planning of the American community. Last year, entrants were presented the problem of creating a middle-income housing development in the Mid-West near a large city (SEPTEMBER 1959 P/A, pp. 102-103). This year, under the theme "Education for Youth and Adult—

And Recreation for All the Family," competitors were asked to design an educational (junior high school, high school, and college) and recreational complex to serve the community. Hypothetical site consisted of 295 wooded acres adjacent to the housing development which was the basis of the 1959 program. On the jury in addition to Dean Kamphoefner were Architects William W. Caudill, John Lyon Reid, and Eberle M. Smith, and Dr. Harry J. Carman, Dean Emeritus of Columbia College, New York. Architect A. Gordon Lorimer was Professional Advisor.

Grand Prize of \$10,000 was won by Edward Colbert of McComb, Miss., and Alfred J. Petrilli of Detroit, Mich. Jury commended the entry on its planning, which placed an information center serving the community and the schools at the heart of the site, and attention to scientific aspects (entry included an atomic reactor).

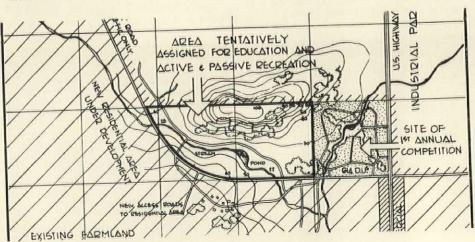
The \$5000 second prize went to Edwin F. Harris, Jr., of Raleigh, N.C. A large space module developed for the program and an interesting roof

system for light and ventilation pleased the Jury.

Marvin Hatami, New York, received the \$2500 third prize for having one of the best de-centralized plans in the competition. Jury felt it was a superior architectural statement.

In the Student Group, the \$2000 first prize was awarded to John Scarlata of Brooklyn's Pratt Institute. The Jury's attention was held by the good use of water; the planning of the cultural center; and the provision of views from all seminar rooms.

Juror Caudill stated that the competition gave a good picture of what the trends are in school design. Two things are evident, he said: "(1) Dr. Trump and his 40-20-40 system of educating high school and junior high school youngsters intrigues school designers. A very substantial number of entries were based on the Trump Plan. (2) If education or educators would not get in their way, a great number of designers would go the route of complete decentralized plans, as evidenced by the number of schools based on the decentralized concept.



Basic site plan showed wooded 295 acres crossed by a stream.



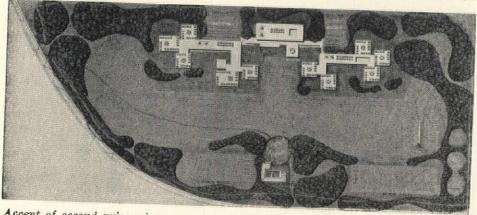
Standing: Lorimer, Kamphoefner, Carman, Reid; seated: Smith, Caudill.

Apparently designers are attempting to humanize school plants in the best way they know how-by breaking up the big piece into little pieces." "The emphasis on the community use of the educational facilities points to a recognition of the urgent problem of every community in making maximum use of available facilities for the benefit and enjoyment of the community," according to John Lyon Reid. Dean Carman said: "We are a pragmatic, materialistic people and as a consequence some of us are willing to sacrifice that which is esthetically beautiful as well as practical for the sake of cutting costs. This Program stressing . . . the quality of excellence

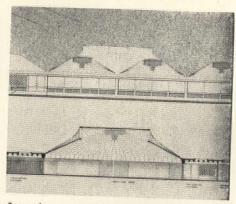
can . . . contribute to . . . esthetic aspects of American life."

Professional Merit Awards of \$500 each were won by Peter Tarapata and Charles MacMahon, Jr., of Bloomfield Hills, Mich.; John V. Sheoris of Grosse Point, Mich.; Israel Stein and Robert F. Lindsey of Houston; Richard Saul Wurman and Alan Levy of Philadelphia; J. Byers Hays, Harry J. Roberts, Joseph A. Poch, and H. David Howe of Cleveland; and John V. McPherson, Jack H. Swing, Robert L. Amico, and George Albers of Homewood, Ill. Professional Certificates of Achievement went to Ralph Lewis Knowles of the Department of Architecture at Auburn University;

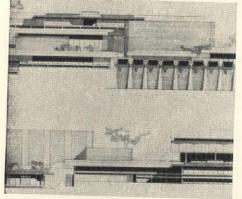
George Colvin and William B. Little of Charlotte, N.C.; and George B. Hagge, Chih-Chen Jen, Hanford Yang, and Heinz Zobel of University City, Glendale, St. Louis, and Affton, Mo., respectively. Second prize in the Student Group was won by Richard M. Foose of Columbia University; and Pratt Institute scored again with Richard C. Marcantonio's third prize. Student Merit Awards were given to Fredric E. Melby of the University of Minnesota, Minoru Takeyama and Ozdemir Erginsav of Harvard Graduate School of Design, John M. Ellis of Massachusetts Institute of Technology, and James S. Daley of Oklahoma State University.



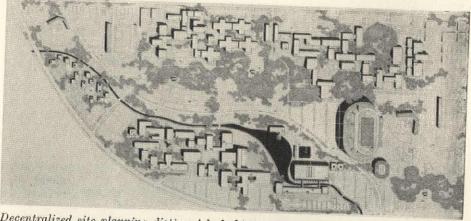
Accent of second prize winner was on planning within large space module.



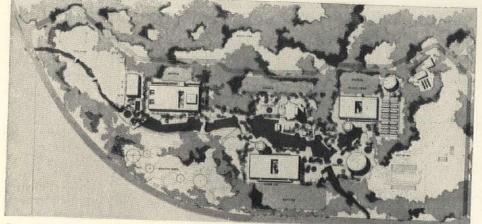
Ingenious roof system contains lighting and ventilating elements.



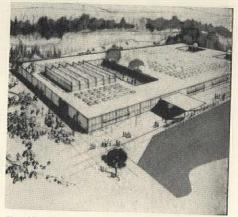
Architecture of third prize winner earned Jury's commendation.



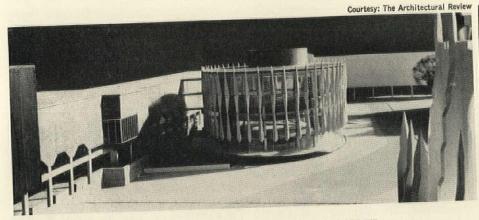
Decentralized site planning distinguished third prize winner.



Jury found first prize winner in student group commendable for use of water.



Double-decking of seminar rooms gave each a view of water and woods.



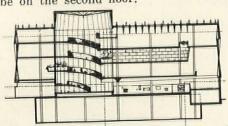
LIBRARY TO REFLECT CATHEDRAL RUINS

Project Latest in City's Redevelopment

coventry, england One of those almost unheard-of phenomena, excellent architecture by a civic employe, may be seen in the projected Central Library for Coventry by City Architect Arthur G. Ling. The library continues the generally high level of design and planning which have characterized the rebuilding of this city—most of it, excluding the new cathedral, by the city architect's office.

The library will be an elliptical structure projecting into a new square, across which readers and librarians will be able to view the ruins of the old, bombed-out Coventry Cathedral, and, through them, the new Cathedral. The building will stand on its own paved and patterned plaza, connected only by a slim link to the new city art gallery (which will contain some offices and lecture halls for use with the library). The other two sides of the square will be closed by a late Victorian, neo-Jacobean Council House

at one end, and a four-story building housing city council offices (including Mr. Ling's) at the other, Exterior of the library will be glass with aluminum mullions which will project above roof level and echo the finials of the Cathedral ruins across the square. An open well will penetrate the building, allowing the visitor to be conscious of the entire building on entering Basement will include the main book stack, a news room, three meeting rooms, and a 400-seat lecture room. The ground floor will house the quickreference department, an exhibition hall, and a two-level children's reading room. The main lending library will be on the second floor.



Section shows library services arranged around ramped well in center.

British Information Services

Library will sit in newly-created square across from cathedral ruins.

CHIEF OF DESIGN DISCUSSES FAIR

"We must approach this problem positively and with hope to get the best results; you [the press] can help us in this direction." "The Fair can represent a wonderful opportunity for industry to make a major statement, an important contribution to design . . . if they can get together." "If we have a no-holds-barred Fair, in the design sense, it might attract some exciting new designs and perhaps some exciting new designers, such as the young Scandinavians."

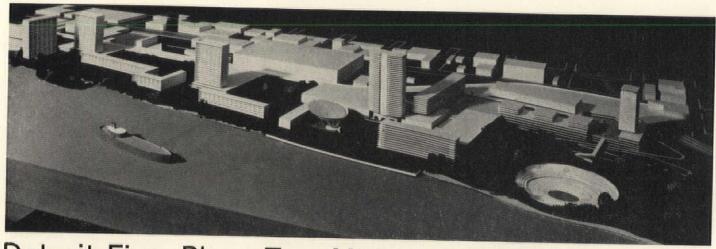
Sitting over lunch in New York's Swiss Pavilion restaurant (itself a vestige of the 1939-40 World's Fair), Wallace K. Harrison, Chairman of the Board of Design for the 1964-65 New York World's Fair, discussed with P/A plans for the event.

Asked whether the Fair would have a "theme" structure such as the Trylon and Perisphere, Harrison said he certainly hopes not. "Those structures are usually meaningless. That thing—the Atomium—in Brussels was terrible." He said that the Fair board itself does not have money to build buildings. "We have just about enough to prepare the grounds and create some new pools."

Harrison said that, at this point, indications are that the Fair will not be unified in the design sense. This was proposed by the design board, but turned down by the administrative and executive branch under Fair President Robert Moses. Shortly thereafter, Gordon Bunshaft resigned from the design board. "I respect Gordon for his action, but certainly wish he had stayed with us."

What has been accomplished at the Fair so far? "Right now, our basic plan for allotment of land between the various types of exhibits has been accepted and Fair representatives are contacting potential exhibitors in this country and abroad." The closest thing to a main building probably will be the U.S. Federal Building, which will be sited on axis with a large, circular pool some distance away in the industrial exhibit area. This building will have the additional duty of screening the permanent New York City Building, an eyesore. Surrounding the U.S. building will be state and foreign buildings, and a "Tivolilike area" is planned around the amphitheater on Meadow Lake.

"This can be a terrific propaganda vehicle—not only for us, but also for all other countries that participate," Harrison concluded. "I hope we can have a good Fair, and I am going to stick with it in that hope."

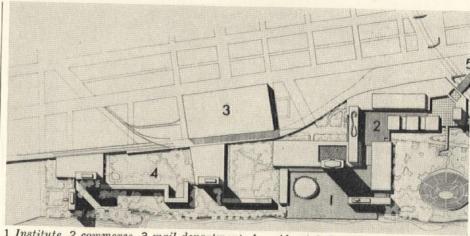


Detroit Firm Plans Two Michigan School Projects

Detroit's Civic Center, Dearborn Are Sites

DETROIT, MICH. Designs for a largescale riverfront development for the Detroit Institute of Technology near this city's redeveloped civic-convention center and a junior college in Dearborn are now on the boards of Eberle M. Smith Associates. Inc.

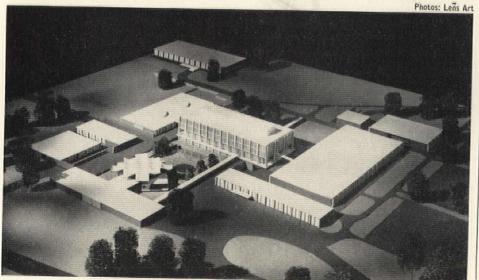
Prime objective in the design of the Detroit Institute of Technology Riverfront Development (above) was to provide a technical campus in mid-city which will be as spacious and cloistered from its surroundings as possible. With this in mind, educational and research buildings will be screened from the neighboring convention center and the adjacent expressway by commercial and recreational areas. Both public and campus housing will be provided, each oriented for maximum light and view. A hotel will serve visitors to the Institute and the convention center. An amphitheater planned for the campus will be used for summer musical performances.



1 Institute, 2 commerce, 3 mail department, 4 residential, 5 train station

The entire redevelopment, which will complete Detroit's riverfront plan, will replace unsightly railroad yards.

The Dearborn project, Henry Ford Community College, will be located on the late automobile magnate's "Fairlane" estate adjoining the Dearborn Center Campus of the University of Michigan. The junior college will have a student enrollment of 2600 full-time and 9300 part-time students. The nine major buildings presently planned include liberal arts and library building, science building, technical building, technical laboratory building, fine arts building, music building, administration and student center building, and physical education building. All but the latter will be grouped around a central sunken court.



Henry Ford Community College is planned around a central, landscaped courtyard.



Library-liberal arts building faces student center across court.



Student Center, attached to administrative wing, sports jaunty roof.

PERSONALITIES



The architect and planner providing for 20th-Century man "needs the ardent passion of a lover and the humble willingness to collaborate with others, for, great as he may be, he cannot do it alone." In this quote from Dr. Walter Gropius'

talk at the 1955 P/A Design Awards Banquet is contained the philosophy of collaboration and mutual respect for his peers which guided him through the creation of the Bauhaus, the years as head of Harvard's Graduate School of Design Department of Architecture, and the founding and successful operation of The Architects Collaborative. Most recent honors for this muchhonored man include last year's longoverdue Gold Medal from AIA, his being made Honorary Life Member of The International House of Japan in Tokyo and a Benjamin Franklin Fellow of the Royal Society of Arts in London, and the German Grand State Prize for Architecture. The text of the latter award, presented to him by Dr. Meyers, Minister President of Rhineland Westphalen, at the Academy of Arts in Dusseldorf, read, "Walter Gropius performed at the beginning of the century pioneer work basic for the new architecture. The comprehensive community of the Fine and Applied Arts united by him in the Bauhaus has set an example of how to renew the integration of all design. It has exerted his influence to the present day. His architectural work, his thoughts, and his teachings have been effective and have found acceptance throughout the world reilluminating the German sphere through his personal participation, counsel and advice." Returning from Germany, Gropius stopped in London to advise entrepreneur Jack Cotton on two projects: the Piccadilly Circus building and a civic center in Birmingham. Cotton heads a British group investing in New York's Grand Central City project, for which Gropius is consulting architect with Pietro Belluschi.

EERO SAARINEN will design his first skyscraper for Columbia Broadcasting System in New York; structure will be on Avenue of the Americas between 52nd and 53rd Streets, two blocks north of RCA Building, home of National Broadcasting Company.

Architect HARMON H. GOLDSTONE is new president of New York's Municipal Arts Society; treasurer is EDWARD

LARRABEE BARNES, and P/A Managing Editor CHARLES MAGRUDER is secretary Same society gave an award to Violinist ISAAC STERN for his leadership in the successful fight to save Carnegie Hall . . . John Louis WILSON was re-elected as president of Council for the Advancement of the Negro in Architecture.

Effective the 15th of last month, James Johnson Sweeney resigned as



director of the Solomon R. Guggenheim Museum. In a letter to Harry F. Guggenheim, president of the museum Board, Sweeney said, "In view of the difference between the ideals held by the Board of Trustees with

reference to the aid and use of the museum and my own ideals, which I feel I have a responsibility to follow, I herewith submit my resignation. Brooklyn-born, Irish-descended Sweeney (he is a Fellow of the Royal Society of Antiquaries of Ireland; named his children, Ann, Séan, Siadhal, Tadhg, and Ciannait) has stood up for his convictions before. He resigned as Director of Painting and Sculpture of the Museum of Modern Art in 1946 when the museum wanted him to go along on a curatorial program with which he did not agree. Trouble at the Guggenheim has undoubtedly been brewing ever since Wright's designs for the building were first revealed (Sweeney changed a number of Wright's plans, notably the lighting, mounting of the pictures, and interior wall color). The immense popular success of the museum since its reopening in the new building has evidently persuaded the Board to consider a program directed at a less-informed viewer than heretofore. In a release on the acceptance of Sweeney's resignation, Guggenheim stated that "... the trustees believe the time has come to develop a series of activities that will be interesting, informative and educational to an ever-widening number of art lovers and will attract for display at the museum notable collections of art throughout the world." This is an attitude against which Sweeney has written in Daedalus, ". . . museum trustees or perhaps even museum directors are ambitious to embrace the broadest possible public and, in our democratic age, have not the courage to face the fact that the highest experiences of art are only for the elite who 'have earned in order to possess.'

No immediate plans have been announced by Sweeney, but his time will undoubtedly be well taken up by his work on at least 15 art or educational boards, lecturing, and writing. His successor has not been appointed at this writing.

Dismal note department: "We are prepared to build anywhere and everywhere. Our only requirements are substantial demand, available land and the opportunity to make money," says Levittown perpetrator WILLIAM J. LEVITT.

Major problem confronting Rockwell King DuMoulin this fall is probably



which hat to wear next, for, in addition to being a practicing architect and a devoted teacher, he is also Head of the Department of Architecture, acting Chairman of the Division of Architecture, and acting Head of the Department of Interior Architecture at Rhode

Island School of Design. Furious activity seems to be taken with a great deal of sang froid by DuMoulin, however-in the twelve years between 1943 and 1955, he represented the United States or the United Nations in design and planning capacities in about 40 countries in Europe, Asia, Africa, and North and South America. These assignments included such posts as directing the UN program for Public Works Rehabilitation in Yugoslavia, City Planner and UNRRA Capital Liaison Officer in China, and overseeing the Point 4 Program of Technical Aid in Architecture throughout Latin America. Retired to the comparative peace of private practice and teaching in Rhode Island since 1955, he says the family summers "in one of those wonderful 'Cottages' built in the Maybeck manner 50 years ago, on the side of a hill overlooking fields and the ocean. A super-highway is heading right for the view from the cantilevered wood deck." In winter, the lucky DuMoulins live on Providence's College Hill in the servant's quarters of the Candice Allen House, designed by John Holden Green, c. 1818. Pretty soon, architecture will have a new DuMoulin; "Rocky's" younger son is entering Columbia Architectural School this semester.

> Rouises Corbellety Sketches by

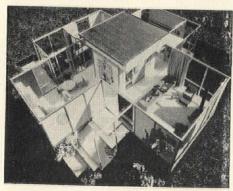


Use of Copper in Roof Merits Award

Architect A. G. Odell, Jr., won special citation in competition held by the Copper and Brass Research Association for his "distinctive creative application of copper in the design of Concordia Evangelical Lutheran Church" (DECEMBER 1959 P/A, pp. 128-133). Commenting on design, Mr. Odell said, "It was my opinion that the only suitable roof covering for the sanctuary was copper. The anticipated blue-green patina was a primary consideration, and the batten seams were designed to give variety and texture to the large expanse of roof." Annual competition honors outstanding new use, application, or metallurgical development of copper, brass, or bronze.

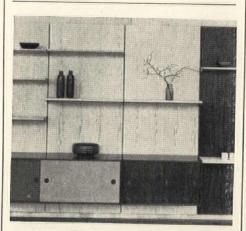
"HOME AND SCHOOL" THEME OF TRIENNALE

The 12th Milan Triennale, which opened in July and will continue through November 4, has not exactly



aroused the acclaim of the multitudes. Departing from previous tri-annual expositions, which had as their raison d'être advances in architectural and industrial design, this one announced a theme: "Home and School." Ad-

mittedly, several of the most interesting exhibits were beyond this pale (notably the Frank Lloyd Wright retrospective mounted by Paul Grotz and Walter McQuade, and the exhibit in honor of the late Adriano Olivetti). But, according to reports, the general effect of the whole exhibition is diffuse and unrewarding. Main buildings are a complete school from Great Britain, by Rex Goodwin, and a U. S. house done for Alcoa by Designer John I. Matthias of California (shown). U. S. Government agencies repeated their past history of disinterest in U. S. participation in this international design showcase, and it was once again the task of Walter Dorwin Teague to save our face by encouraging private and governmental enthusiasm (in 1957, with desperate lastminute activity, he and Paul McCobb managed to get us in with the awardwinning Fuller dome display). Thanks to Teague, Alcoa, and the Wright exhibit, we are represented this year. It might not be too soon for the State Department to start thinking about the 13th Triennale. A direct report on the show has just come in from Professor John C. Grace (on European leave from Tulane University); watch for it in VIEWS in OCTOBER P/A.



Exhibition to Highlight Design from Denmark

To open its autumn exhibition season, New York's Metropolitan Museum of Art will have royalty in attendance. King Frederick IX and Queen Ingrid will preside at the opening of "Arts in Denmark," an exhibition of Danish architecture, arts, and crafts, on October 15. The show, designed by leading Danish Architect Finn Juhl will run through January 8, 1961. Opening of the show will be the climax of a series of "Denmark in the U. S. A." events planned during the state visit of the King and Queen to this country October 4-17. Shown is an example of Architect Juhl's furniture design.

Tube-Tower Center of Student Exhibition

An interesting structure utilizing 18 in. diameter cardboard tubes was designed by Rhode Island School of Design students as housing for a large sculpture (also student-designed) in the recent exhibition of student work at RISD. The 25-ft-high structure is of six double columns forming a hexagon. Central ring was built on the ground, then hoisted into place around a staging tower. Columns were bolted together on the ground, then raised and bolted into place to support the dome. Columns were connected to



a wooden frame extending four feet into the ground for protection against high winds. For weather-proofing, the tubes were treated with a mixture of waterglas and paint. For news of RISD's Rockwell K. DuMoulin, see page 58.

Wavy Restaurant Will Palpitate over Lake

Restaurant for Sterling Forest Gardens, Tuxedo, N.Y., is described by Arthur Wagner Associates, designer, as having "highly organic forms" to "retain a relationship with the natural and organic forms of flower and plant inherent in the garden's site." Structure will be in three open pavil-



ions: main dining room, cocktail lounge, and kitchen. A central entrance lobby will give access to the three. To provide open plan, most duct and electrical work will be in the floor. Restaurant will have views of a lake and the gardens.

Institute for Crippled and Disabled Building Proposed

Sherwood, Mills & Smith, architects of the Stamford, Conn., Rehabilitation Center for the Institute for the Crippled and Disabled, have designed



a New York building for the Institute which will house administrative offices, general workshops, and an auditorium. In addition to administration, the building will be used to instruct professionals in the rehabilitation of the disabled, and for the treatment and training of the handicapped. The six-story building will be faced with precast concrete on the street front; other three sides will be glazed face

brick. Ground floor doors will be fully automatic and treadle operated for convenience of visitors using crutches or wheel chairs. Partners-in-charge Thorne Sherwood and Carrell S. Mc-Nulty, Jr., state that the lobby will be enhanced by a relief mural or large sculpture. Mechanical engineer: Bernard F. Greene; structural engineer: Werner-Jensen & Korst.

Contini Designs Prefab Parking Structure

A self-parking structure which can be mass produced in three basic elements off the job site and rapidly erected in multiple combinations has been announced by Tishman Research Corporation. "Tierpark," designed by Engineer Edgardo Contini, has as its three primary components the typical prestressed, precast concrete slab, slanting down- and up-slabs, and tapered columns to support both typical slabs and ramp slabs. Secondary elements such as railings, lighting, and decorative panels may be custom designed for specific projects. First Tierpark installation is at Hempstead,



N. Y., branch of Abraham & Straus Department Store. Tishman has announced 49 prestressed concrete producers licensed to fabricate Tierpark components.

HEADY ARCHITECTURE

Wallace K. Harrison and Oscar Niemeyer probably will be somewhat bemused to see items from the current collection of hat designer Sally Victor. One piece of headgear is based



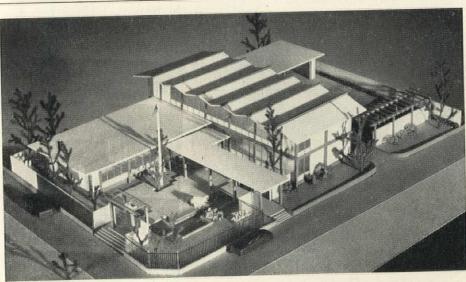
politan Opera House in Lincoln Center, and the other chapeau is said to



be derived from Niemeyer's design

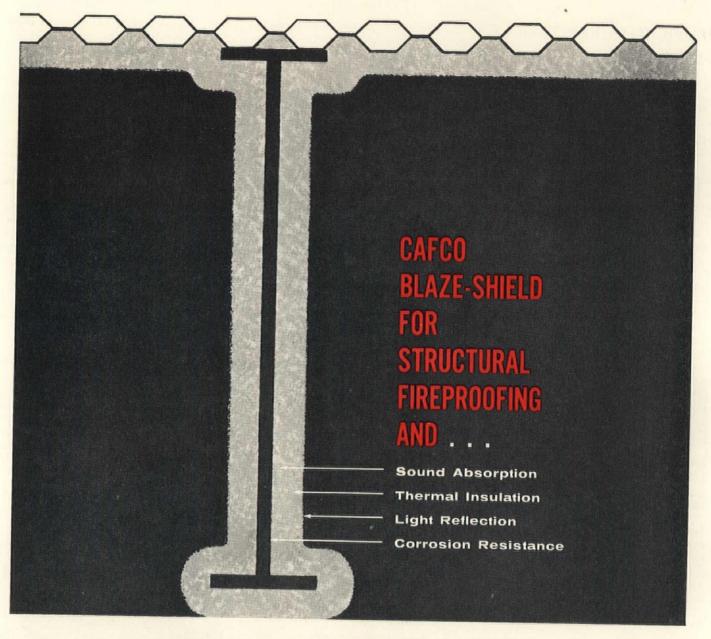


for the Brasilia cathedral. Onward and upward with the arts . . . we suppose.



EXPRESSION OF JAPANESE DESIGN FOR CONSULATE

For the design of the U.S. Consulate in Fukuoka, Japan, architects Hervey Parke Clarke, John F. Beuttler, and George T. Rockrise of San Francisco strove for such characteristics of Japanese design as simplicity, serenity, and refined articulation of structural elements "without aping traditional Japanese architecture." The result will be a building on a residential scale in a garden which will reflect the parklike atmosphere of the neighborhood. Most prominent design element will be the folded-plate concrete roof of the two-story wing. Frame, wall panels, and floor and roof slabs of reinforced concrete will have different finishes and colors to define parts of the building. Indigenous materials such as stone, slate, and various woods will relate the building to its environment. In addition to consular affairs, the structure will house a portion of the U.S. Information Agency for Fukuoka and the surrounding area. Associate architect: Shohei Matsuda; landscape architect: Lawrence Halprin; civil engineer; William B. Gilbert; mechanical engineer: Buonaccorsi & Murray.



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Gateway #4 Building, Pittsburgh; Architect: Harrison and Abramovitz; General Contractor: George A. Fuller Co.

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National Cash Register Building, Chicago; Architect: Naess and Murphy; General Contractor: Somner-Sollitt Co.

Federal Post Office, New Orleans; Architect: Perez and Associates; General Contractor: Bellows Construction Co.

Liberty Mutual Building, Boston; Architect: Perry, Shaw, Hepburn and Dean; General Contractor: Turner Construction Co.

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MUSIC IN GREEK TEMPLE FOR LOS ANGELES

A building planned to combine "modern structure and design with elements of classical taste" has been proposed for the long-awaited Los Angeles Music Center by Welton Becket & Associates. The five-story center will be enclosed on all four sides by roofhigh, fluted columns of steel covered with precast white stone. The roof overhang will be sculptured into modillions on its underside, and wide promenades will occur at the first and second floor levels. Capacity of the auditorium will range from 2700 to 3100; additional amenities will include a 1000-capacity reception hall, a 300-seat top-floor restaurant, five rehearsal halls, offices for non-profit cultural groups, and underground parking for 700 cars. Seating will be on the orchestra level, dress circle



level, and two upper tiers. At no performance would the farthest spectator be more than 130 ft from the stage. Site of the Music Center is Los Angeles's Civic Center. Consultants to the Becket firm—acoustics: Dr. Vern C. Knudsen, Paul Veneklasen, and Dr. Robert Leonard; stage engineer-

ing: Professor Walter Unruh; stage lighting: Jean Rosenthal; seating: Ben Schlanger.

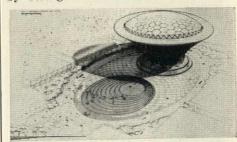


Apartment Group Will Pierce L. A. Skyline

The Barrington Plaza development in Los Angeles will feature three highrise apartment buildings oriented to provide views of the ocean on the west and mountains on the north. Two 17story apartment buildings will occupy one end of the site, balanced at the other end by a 26-story apartment building and a two-story commercial building. Glass and bronze-anodized aluminum curtain walls will sheathe the buildings. The sloping site will be used advantageously in construction of underground garages. The park around the buildings will include a swimming pool and recreational area, Completion is expected in early 1962. Architects are Daniel, Mann, Johnson & Mendenhall.

World's Fair Center Paris Prize Theme

Winner of the 1960 Lloyd Warren Fellowship (47th Paris Prize in Architecture) was this design by Lloyd G. Walter, Jr., of North Carolina State College. Subject of the competition was "a theme center for the 1964 New York World's Fair." Mr. Walter's proposal provides nine levels for national and international exhibits surrounding an immense circular space. Hyperboloid shapes generated by straight-line elements of two lat-



tice skins form the main structure. In his report for the Jury, Morris Lapidus stated, ". . . beside an imaginative design, the presentation shows a thorough grasp of draftsmanship, which is something rare in student competition these days."



Has-Everything Hotel Center for New Jersey

The "Forum," a unique design by Davis, Brody & Wisniewski for Lakewood, New Jersey, will combine three distinct elements-hotel, motor inn, and convention hall-in one. The three units will be situated atop a plateau with parking, kitchen facilities, service, and storage below. Structures will be reinforced and precast concrete, both with exposed aggregate of marble and quartz. Business conventions will be offered recreation breaks by the outdoor and indoor swimming pools, health club, and skating rink which can be converted into tennis courts. Continued on page 66



World's Fair to Get First Building

Action for the New York 1964-65 World's Fair has begun with the current erection of a temporary administration building to be situated on the World's Fair grounds. The architects, Skidmore, Owings & Merrill, designed a prefabricated shell "Butler" type structure including administration facilities and cafeteria. Completion has been set for late December.



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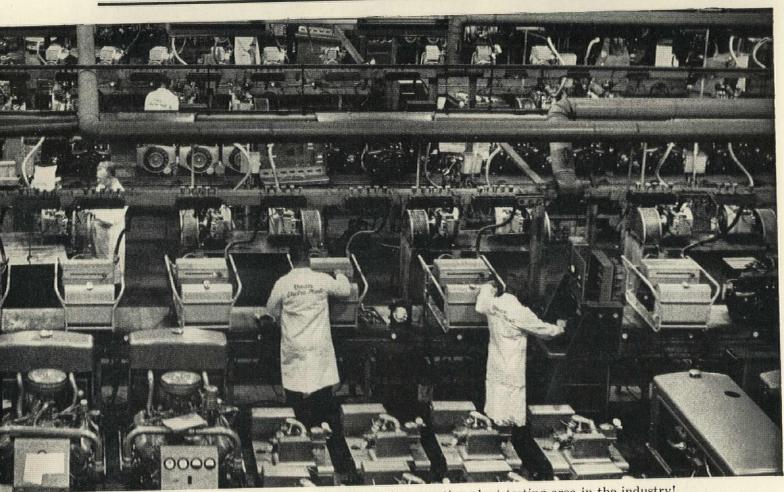
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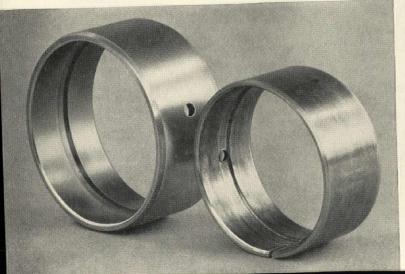
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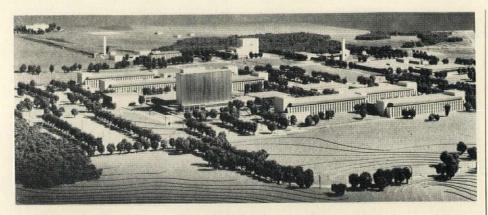
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New Laboratories for National Bureau of Standards

Relocation of the National Bureau of Standards to a 550-acre site near Gaithersburg, Md., will begin with the construction of three building units designed by Voorhees, Walker, Smith, Smith & Haines, New York. The first phase includes Engineering Mechanics Laboratory, Radiation Physics Laboratory, and Power Plant. Completion of first phase is expected in about two years. Design work is also in progress for numerous other buildings including Fire Research Laboratory and Concreting Materials Building. The demand of science and industry for new and improved standards and measurement methods will be met with modern laboratory facilities provided in the Bureau's new home. First phase set at \$23.5 million.



New Headquarters for American Cyanamid

An example of American industry moving into and reviving a town (in this case, practically putting it on the map), is seen in plans of American Cyanamid Company for its new executive and administrative center in Wayne Township, New Jersey. The company, which had planned to build elsewhere, was approached at the instigation of "amateur" citizen leaders, was convinced, and will now contribute to the future, formerly somewhat dubious, of this section.

Design for the headquarters, by

Design for the headquarters, by Vincent G. Kling of Philadelphia, provides a long, curving, four-story main building, following the contours of the site. This building will house administrative office space. Two wings

will extend from the east side of the main building, one to contain a 600seat cafeteria, and the other executive offices topped by a penthouse board room and executive dining room. Main entrance canopy and two stair towers will jut from the west side of the building. Structure will be steel frame with concrete-filled steel deck. Sculptured spandrel facings of cast stone with exposed aggregate will highlight exteriors of the serpentine building. Vertical expression will be given by aluminum frames outlining walls of glass above and ceramic-enameled glass below. Structural engineer: Severud-Elstad-Krueger Associates; mechanical and electrical consultant: Meyer, Strong & Jones.



Country Club to Have Sophisticated Design

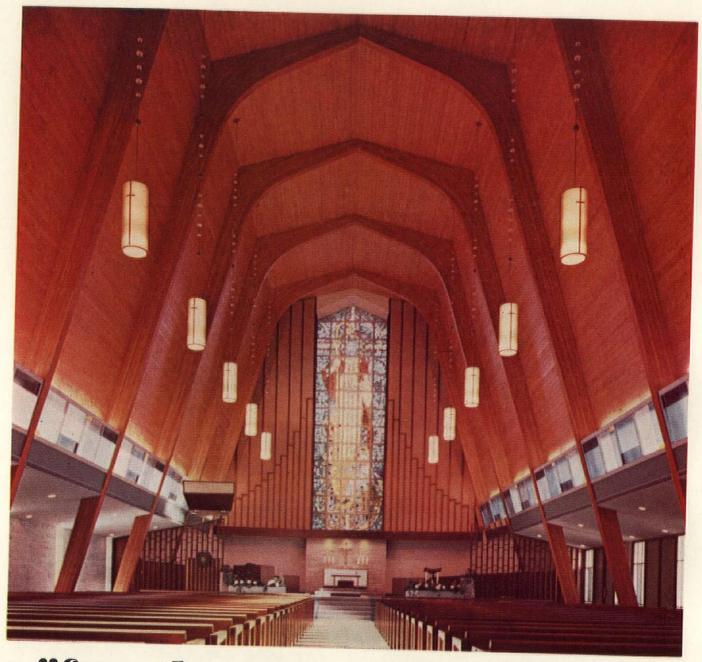
For River Vale, New Jersey, Architect Norval White, New York, has designed the Edgewood Country Club in the form of a "raised basilica" with side aisles and clerestory lighting. Dining room, bar, and lounge occupy raised hall; locker, service, and kitchen facilities are located below existing grade. Structure is basically of laminated wood with columns paired and in clusters of four. Exterior materials consist of stained laminated members, painted wood frames, natural cypress in vertical strips, and glass. Associate architect: Gerald A. Paul; engineer: Robert E. Levien; mechanical engineer: Kalman Kish.

GOLDEN GATEWAY RACE

Word from one of the finalists in San Francisco's Golden Gateway Competition (APRIL P/A, pp. 77, 79-81) is that five competitors have gone by the wayside, leaving the Welton Becket scheme "still in because of its ingenious and attractive financial offer for the land (which is $2\frac{1}{2}$ times everyone else's offer)," the Wurster, Bernardi & Emmons—DeMars & Reay submission, and the entry by John Carl Warnecke & Associates, Gardner A. Dailey & Associates, and Victor Gruen Associates. The latter two were the design jury's choices, the first on the basis of good planning, and the second on grounds of fine architecture.

Central Park Cafe Voted by City Board

OK for the cafe in New York's Central Park (MAY P/A, p. 78) was given by New York's Board of Estimate after a hearing during which the Board heard 22 persons speak against it and six people speak in favor. Board voted to approve Huntington Hartford's gift of \$862,500 (up \$362,500 since May), including the fee of \$112,500 for Architect Edward D. Stone, according to The New York Times.



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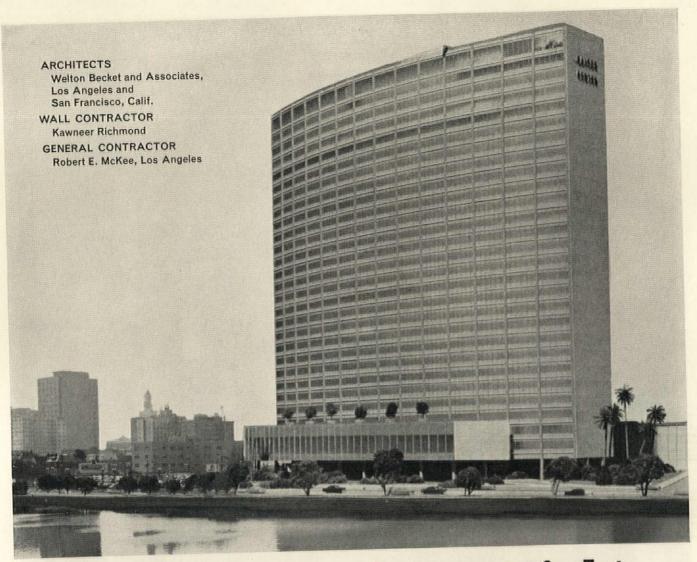
First Methodist Church, Rochester, Minn. Rilco laminated wood arches span 51'; center height 52'; 15' o. c. Architects: Bergstedt, Hirsch, Wahlberg & Wold, Inc., St. Paul, Minn.





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Concern Voiced Over Decline in Population of Cities

Census Indicates Move Away from Cities' Centers



 $By\ E.\ E.\ Halmos,\ Jr.$

Census Bureau has started detailed studies of a phenomenon of major concern to architects, as well as city officials and other planners: the population decline of almost every major U. S. city over the past 10 years.

You have probably read sketchy accounts based on preliminary census results. They

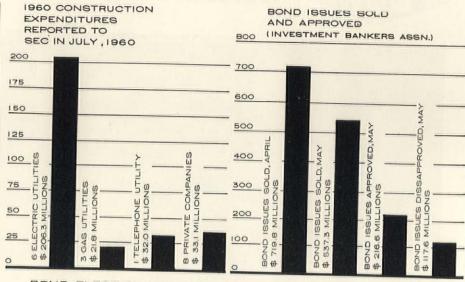
indicate that all U. S. cities, with the exception of six, lost population to their suburbs, although the total population of "standard metropolitan areas" generally showed increases, or at least no loss.

(The six cities that gained are Los Angeles, Houston, Dallas, Milwaukee, Seattle, and Atlanta—and some of these showed gains as a result of extensions of city limits.)

Reasons quickly advanced are many. They include such factors (to take a local example) as the major urban renewal program in Washington's Southwest section, which has cleaned out acres of housing (even though much of it was well below substandard), thus forcing residents out of the city area; better and less crowded schools and family accommodations in suburban areas; lack of good city transportation; obsolescense of office and store buildings; destruction of living areas to make way for highways; and the like.

Nevertheless, the loss is real enough, and it is bound to affect the thinking that goes into future planning for city construction and rehabilitation. It lends strength to a longheld argument of many planners: perhaps the original need for a city, as a concentration of many people, services and skills in a comparatively small area, is passing—thus planning should be concentrated on creating a business and shopping center of greatest beauty and utility, to be fed daily by people from outlying areas, but be virtually unoccupied (except for theater-goers, etc.) at night.

It also presents the somewhat horrifying picture of endlessly growing square miles of suburban housing and shopping centers, rising formlessly on the outskirts, and creating problems



BOND ELECTION RESULTS - MAY 1960 BY USE OF PROCEEDS

USE OF PROCEEDS	APPROVED		DISAPPROVED	
	AMOUNT	NO	AMOUNT	NO
EDUCATION:		The second		110
ELEM. & SEC. OTHER	\$126,323,000	108	\$86,861,000	41
	1,640,000	3	145,000	2
ROADS & BRIDGES	57,420,000	8	275,000	2
WATER & SEWER	15,684,000	31	18,453,000	8
HEALTH & WELFARE	1,060,000	4	200,000	
RECREATION	1,731,000	6	3,828,000	
PORTS & AIRPORTS	2,060,000	2	225,000	4
INDUSTRIAL	425,000	2	223,000	1
REFUNDING	49,000	1		0
PUBLIC HOUSING	1,148,000	2		0
VETERANS AID	235,000			0
FLOOD CONTROL	5,080,000	2		0
ADMIN. & OFFICE BLDG.	485,000	2	1.500.000	0
UNCLASSIFIED	3,295,000	10	6,140,000	5
TOTAL	\$ 216,635,000	181	\$117,647,000	70

BOND ELECTIONS SCHEDULED AS OF JUNE 1,1960

монтн	AMOUNT
JUNE	\$895,284,000
JULY	42,927,000
AUGUST	5,100,000
SEPTEMBER	9,390,000
OCTOBER	19,855,000
NOVEMBER	1,129,585,000
MARCH 1961	70,000,000
NO DATE SET	744,645,000
TOTAL	\$ 2,916,786,000

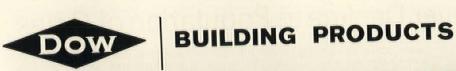
JSE OF PROCEEDS	AMOUNT
EDUCATION: ELEM. & SEC. OTHER ROADS & BRIDGES WATER & SEWER OTHER UTILITIES HEALTH & WELFARE RECREATION PORTS & AIRPORTS INDUSTRIAL REFUNDING FLOOD CONTROL PUBLIC HOUSING VETERANS AID ADMIN. & OFFICE BLDG.	\$ 683,734,000 215,815,000 191,260,000 56,008,000 710,262,000 176,595,000 37,527,000 11,686,000 2,000,000 2,000,000 70,075,000
TOTAL	\$2,916,786,000

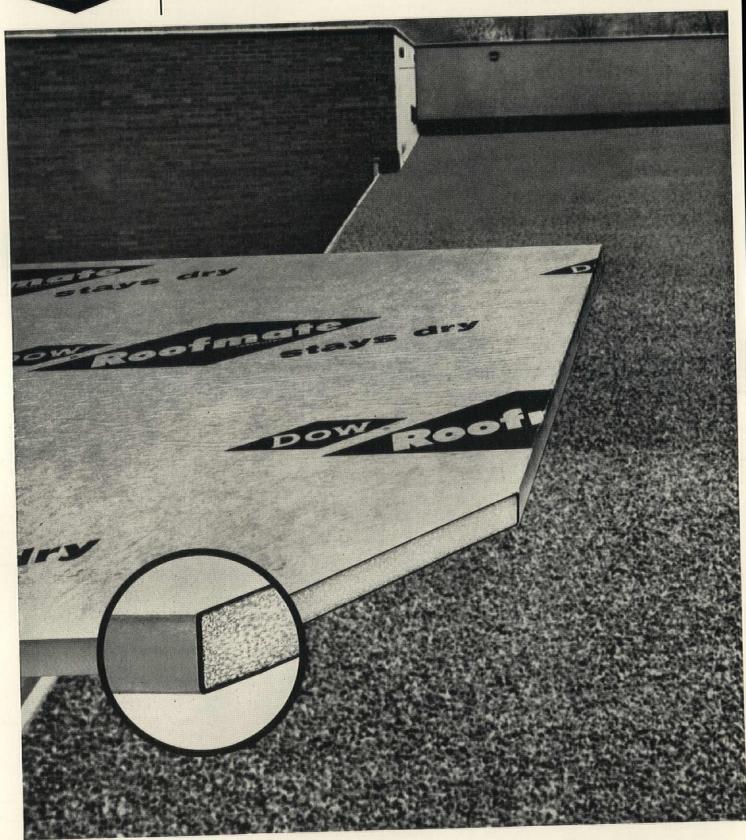
in transportation, culture, sanitation, etc. greater than those of any single city.

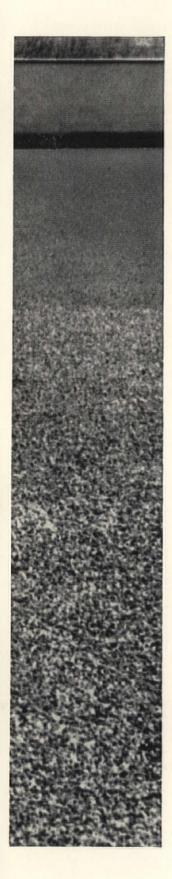
Census, along with government agencies concerned with housing, health and other aspects of urban life, wants to dig deeper into its facts, hopes to come up with indications of causes and further trends.

Incidentally, the Census figures are sure to give impetus—this next session of Congress—to bills such as were presented (but not acted upon)

Continued on page 72







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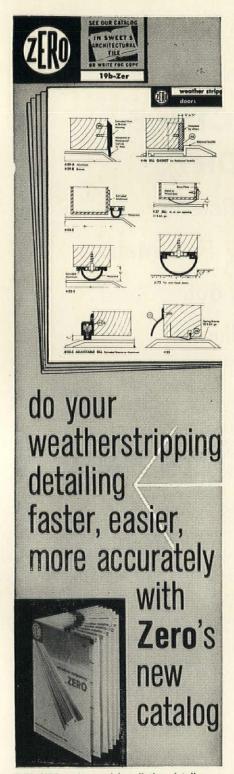
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Continued from page 69

to the previous session, calling for creation of some sort of a federal department of urban affairs to deal with the city-suburb complexes that are developing. (See Congressman Lindsay's article on page 164 of this issue.)

FINANCIAL

While housing starts held steady to near the predicted 1,334,000 units for 1960 (good, but below the 1,577,000 for 1959, shown by newly-adjusted Census figures), homebuilders pinned their hopes on future increases.

They had some facts and some predictions going for them: Dr. Reinhold P. Wolff of the University of Miami saw a "record rate" of construction due during the next five years (he set it at 1,350,000-nonfarm); Dominick & Dominick, New York investment bankers and brokers, saw a 1.8 million level by the mid-1960s. On the fact side, the Federal Housing Administration said that the annual rate of FHA applications on new homes turned upward in June for the first time this year—up 9% from May.

And there was high hope that a new source of mortgage funds would aid the housing picture after FHA began a new plan that will permit individuals-for the first time-to invest in FHA-insured mortgages. Bankers think this source will develop slowly, while investors learn the ropes.

On financial matters, generally, the U. S. economy continued to show strength, particularly for the construction market.

Probably most encouraging was the announcement of a surprisingly large U. S. Government budget surplus, amounting to about \$1 billion. That represents an amazing rebound, when you consider that last year showed a deficit of \$12 billions. Actual tax recepits by the government jumped nearly \$10.1 billions over those for Fiscal Year 1959. Economists took it as ample evidence of the nation's economic strength.

In construction areas (see chart, page 69) evidence of continuing demand remained surprisingly strong, in view of the fact that the half-year mark had been passed.

Public utilities, or instance, announced plans during the month of July for more than \$260 millions worth of work for the remainder of the year; private investors also continued their planning for heavy expansions of manufacturing plant and housing construction.

Sales of municipal bonds also continued strong-reports for May (latest available) showing continuing acceptance by the money markets. In this connection also, average median yields on these bonds, in all categories, remained several percentage points below the high figure for the year (in March).

It is interesting also that voters continued to be disenchanted with proposals for water and sewer construction and recreation projects of all kinds-they turned down much more than half of all proposals in this area. But schools and road projects continued to be approved in great

There were, however, a couple of specks on the generally good financial picture. One of these was in the manufacture of construction machinery, which apparently will drop (at \$1.7 billion total shipments) in 1960 to a rate of about 60% of the capacity of manufacturing plants. The drop-offblamed on dumping of government surplus and imports-has already caused cutbacks in production sched-

Another was FHA's announcement that secondary market prices for FHA-insured home mortgages creased (by 0.1%) during Junewhich indicates a slight tightening of the money markets.

ICBM Construction Changes

Architects who have been working -or hope to work-in the area of missile-base construction should study carefully the recent changes made by the Army's Corps of Engineers in its organization for handling construction.

The changes are at once a major overhauling of the Corps' traditional organizational setup and an answer to growing criticism of alleged delays in base construction. Further changes may be in the offing in other areas of the Corps' work.

And in any case—along with some parallel reshuffling by the Air Force anyone working in missiles now has a whole new set of bosses and circumstances to contend with.

Briefly, here's the picture: the Corps has set up a new "Corps of Engineers Ballistic Missile Construction Office" (already dubbed "CEBMCO" in initial-happy Washington), under command of Brig. Gen. Alvin C. Welling, who has just completed a 3-year tour as Engineer-Commissioner of Washington,

CEBMCO has a direct line to Washington, reports only to the Chief of Engineers, and supersedes all district and division offices in connection with ICBM work (and experimental construction at Vandenberg, Andrews, and Patrick bases as well). It will let all contracts for architect-engineering as well as construction work; field officers on the sites will report directly to it, not to district or divisions.

PROGRESSIVE ARCHITECTURE WILL CARRY IN ITS OCTOBER ISSUE A PRESENTATION BY THE MAKERS OF ARMSTRONG FLOORS: A PORTFOLIO OF MID-TWENTIETH CENTURY ARCHITECTURAL INTERIORS— WITH COMMENTS BY VITRUVIUS.

This sixteen page collection of views of important new buildings, with quotations from Vitruvius' "The Ten Books Of Architecture", suggests that, while there are always new architectural functions and forms, certain precepts and truths are inherent to good architecture in any period.

WATCH FOR THIS OUTSTANDING ADVERTISEMENT IN OCTOBER.

PROGRESSIVE ARCHITECTURE MEANS PRODUCTIVE ADVERTISING

PROGRESSIVE ARCHITECTURE 430 Park Ave. New York 22, N. Y. A Reinhold Publication





"OVERHEAD DOOR" opens a <u>new</u> door to traffic control

Doors channel traffic-speed movement of people, vehicles, materials

"Overhead Doors," as movable walls, give you new flexibility in designing traffic control. By creating new outlets, they can speed traffic through dead ends. By opening more outlets, they can prevent pile-ups, distribute the main flow of traffic through several openings. By providing a selection of outlets, they can divert the flow of traffic in a desired direction. For an unlimited variety of applications, they offer a simple, low-cost solution to more efficient movement of people, vehicles, materials.

The flexible Union Pacific Railroad freight station, shown at left, is just one example. Two banks of 38 doors serve to *sort* goods being moved from railroad cars to waiting trucks. The railroad cars enter bays inside the building and are quickly unloaded with the use of

small hand trucks, which are carried by a conveyor to the proper door. This ingenious system can handle as many as 96 freight cars at once.

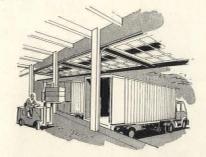
Many other new ideas in traffic control have been developed and tested by Overhead Door Corporation engineers—ideas that result from this company's 39 years of experience in the garage door field.

Get detailed information from your local distributor (see "Overhead Door" in the white pages) for an application you may now be planning, or write to Overhead Door Corporation, General Office: Hartford City, Indiana—Manufacturing Distributors: Cortland, N.Y.; Hillside, N.J.; Lewistown, Pa.; Nashua, N.H.—Manufacturing Divisions: Dallas, Tex., Portland, Ore.—In Canada: Oakville, Ontario.

To solve many traffic control problems-



Drive-through—"OVERHEAD DOORS" front and rear (or front and sides) are frequently used by auto service centers, garages, car wash businesses and delivery companies to allow cars and trucks to drive through and avoid interruption of incoming and outgoing traffic.



Reverse opening—"OVERHEAD DOORS" that open outward, rather than inward, follow the contour of outside wall and canopy. Their reverse opening provides needed head-room for fork-lift trucks and similar equipment used inside to speed materials handling.



Directional control—"OVERHEAD DOORS" offer a simple, low-cost way to direct the flow of people. A typical application is a railroad passenger station using automatically operated "OVERHEAD DOORS" to open and close gates of loading passenger trains.



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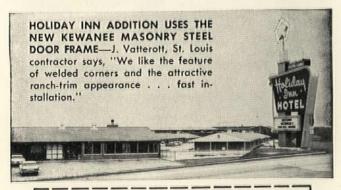
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-35/8" & 6" OR THICKER MASONRY

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Request Bulletin 153D



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For more information turn to Reader Service card, circle No. 312≯

Efficient Science Room Furniture is Flexible

Circular Units May Be Included in Lecture Halls

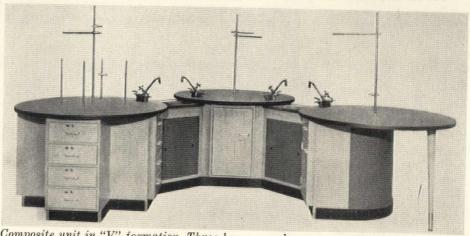
PHILADELPHIA, PA. School laboratory furniture which combines flexibility of arrangement and use has been introduced here. "Science Circle" furniture consists of laboratory tables with circular tops and a choice of bases, including a general cabinet unit with racks for equipment, a drawer unit, and a unit combining a drawer and a

"Science Circle" science room arranged for 24 students.

cabinet. Tops are available in green or black Searesin but may also be specified in alberene and stone or monolab. Supporting furniture is of white oak in two stains. Connecting sink units provide two cold water faucets, four gas cocks, four duplex electrical receptacles, stainless steel bowls, and a lead drum trap to floor line for chemicals. Each lab unit accommodates four students. Science Circle manufacturer has published a brochure showing a number of arrange-

ments of the furniture, including an eight-student combination biologyphysics-general science unit and two twelve-student combination chemistryphysics units. In addition, arrangements are shown featuring the laboratory tables in combination with an instructor's lecture and demonstra-tion desk, curved "Amphi-Lecture" student's lecture tables, student seating, and projection equipment. John E. Sjostrom Company, Inc.

On Free Data Card, Circle 100



Composite unit in "V" formation. Three bases are shown.

ROOF DECK, SHEATHING ARE ECONOMICALLY PRICED

Roofing Is Printed with Walnut Grain Pattern

SEATTLE, WASH. Two products of forest industries which will effect construction economies and add to the value of residential and small commercial buildings are announced.

"Paneldeck" is a wood grain insulating roof deck for use in post-andbeam construction. It is finished with a walnut grain pattern printed on super-smooth calendered stock. Pattern is laminated to the insulating roof deck and covered with a coat of clear resin. Paneldeck, scored at 8"



Sheathing is pre-treated for protection against termites, rot, and mildew.

centers for a planked appearance, is available in 2'x8' size in thicknesses of 11/2", 2" and 3", with tongue-andgroove edges. It has a thermal insulation value of K-0.36.

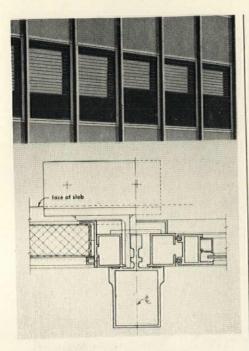
"Super-Strong Sheathing" is designed primarily for use without corner bracing. The sheathing, made

from long, rough fibers of Douglas Fir and Western Hemlock, comes in 1/2" thickness, in 4'x8' and 4'x9' sheets. Wood and asbestos shingles may be nailed on directly, using annular ring nails of specified size. Simpson Logging Company.

On Free Data Card, Circle 101



Insulating roof deck may be used in exposed beam construction.



New Curtain-Wall System

"Series 400" curtain-wall system is erected in independent mullions and one-story units consisting of sash and panel frame. System can be combined with all generally-accepted spandrel materials and fixed or reversible windows. Series, made of high quality aluminum extrusions, is integrally keyed for weather-tight seal, simplified erection, and protection against expansion and contraction. System can be erected largely from inside the structure, permitting all-weather erection. Albro Metal Products Corp.

On Free Data Card, Circle 102

Custom Fabrics May Be Applied to Foam Backing

Almost any fabric may now be backed with vinyl foam up to 1/4" thick, creating sound absorbent wall covering. New laminating process enables a wide variety of fabrics to be mounted on the foam backing. Material can then be applied to walls with standard cellulose paste, or tacked or stapled. B. F. Ruskin & Company.

On Free Data Card, Circle 103

Luminous Tile for Glowing Floors

"Afterglow," a luminous vinyl floor tile incorporating phosphorous pigments, glows in the dark with a bluish light "bright enough so that objects near or on it are clearly distinguishable." When strength of light source and length of exposure equal eight

ft-candles of light, tile will emit steady glow for as long as 12 hours. Decorative possibilities include lobbies, restaurants, and cocktail lounges; practical applications include hospitals, institutions, photographic and X-ray darkrooms. B. F. Goodrich Company, Flooring Products Division.

On Free Data Card, Circle 104

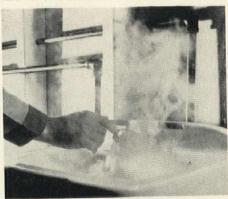
New Ceramic Facing In Large Sheets

"CV Durathin," a new ceramic facing material only 3/8" thick is available in sizes up to 18"x24" and in a virtually unrestricted choice of colors. Both initial costs and installation costs are substantially reduced because of its thinness, light weight, and large unit sizes. In addition, it assures the durability and low maintenance of ceramic veneer. Face-to-wall dimension is 1" (3/8" of CV Durathin and 5/8" of mortar). Federal Seaboard Terra Cotta Corporation.

On Free Data Card, Circle 105

Prefab Plumbing Possible With High-Temp Vinyl

A new vinyl plastic that can withstand temperatures 60 degrees higher than conventional vinyls, indicating use in household hot-water plumbing



and industrial hot-acid piping, has been developed. The new material, a polyvinyl dichloride called "Hi-temp Geon," retains all the qualities of strength, light weight, impact resistance, non-flammability, and corrosion resistance that have made vinyl the second largest selling plastic in the world. Claiming to be the only selfextinguishing thermoplastic pipe material capable of handling hot-water systems, and at costs competitive with existing pipe products, Hi-temp Geon represents the first significant breakthrough in this industry since the development of rigid vinyl 12 years ago. Its light weight, ease of installation, and new heat resistance make possible

prefabricated kitchen and bathroom piping facilities that are, for the first time, economic and easily transported. System has recently been demonstrated in a research house built by the NAHB in Lansing, Mich. B. F. Goodrich Chemical Company.

On Free Data Card, Circle 106

Wall Heater/Ventilator On Separate Operation

The first wall heater/ventilator combination that may be operated simultaneously or separately has just been introduced. New "Heat-A-Vent" has two radiant-heating elements to pro-



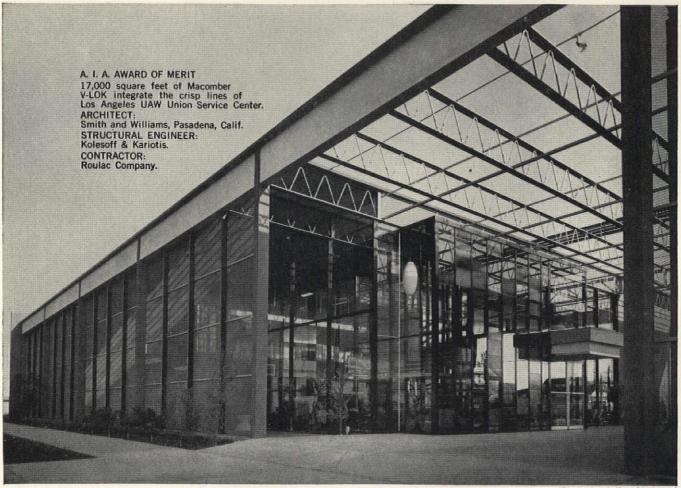
vide instant, draft-free warmth. One element operated singly will give a constant and economical heat level. Where required by codes, ventilator operation may be controlled by light switch. Unit is encased in anodized aluminum for durability. Ideal for bathrooms and other areas requiring extra heat plus moisture removal and ventilation. NuTone, Inc.

On Free Data Card, Circle 107

Compact Heating-Cooling Unit for Area Conditioning

Complete, ducted, all-season heating and cooling conditioning can be provided for apartments and small commercial areas with a unit which will fit into a 36" x 36" closet. The air handling surface of the condensing unit extends through the outside wall; the part of this unit remaining inside serves as the base for the furnace. The cooling coil is mounted in top of the furnace. Unit assembled requires only 89" headroom. Unit provides nominal two tons of cooling and 51,000 Btu input of heating. Condensing unit handles intake and exhaust air on same side. By switching face plates, exhaust can be from

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(Photo by Julius Shulman)

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Insulite Roof Insulation is used on this University of South Carolina Men's Dormitory.

SOME REPRESENTATIVE BUILDINGS INSULATED WITH INSULITE ROOF INSULATION:

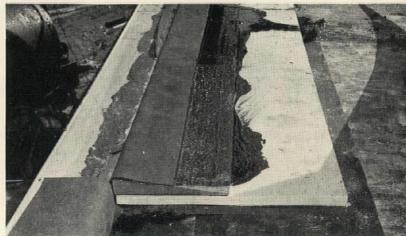
Post Office Building . . . Baltimore, Md. • Veterans Hospital . . . Phoenixville, Pa. • General Motors Co. . . . Pontiac, Mich. • Hoosac Pier, Port of Boston . . . Boston, Mass. • Minneapolis Honeywell Co. . . . Minneapolis, Minn. • U.S. Treasury Building . . Washington, D.C. • State Hospital . . . Torrence, Pa. • Commonwealth Edison Power Plant . . . Chicago, Ill. • Manual Arts

To assure a good design and to provide a good base for roofing felts—use Insulite Cant Strip. Ideal for eliminating sharp breaks in roofing felts where the flat deck meets with wall, chimney or other vertical surface. Sizes: 3" x 3" and 4" x 4".

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Solve drainage and water runoff problems with Insulite Tapered Edge Strip. Used at outer edges of flat roofs, it carries felt smoothly over nailing members. 4 foot lengths, 12'' or 18'' wide. Tapers from 15''8" to 15''8".





Solve more application problems with extra-strong Insulite Roof Insulation

Tapered Edge Strip and Cant Strip assure better, trouble-free roofs

Today, more than ever before, a sound, trouble-free roof requires insulation with high transverse and compressive strengths. These strength properties are needed to resist cracking, crushing and flexing due to on-the-job handling and roof traffic loads. Insulite Roof Insulation is vastly different from soft—or brittle—materials. It is made of *all-wood fibers*—slow-growing Northern wood, for strength and rigidity.

Insulite® Roof Insulation is available in two types: Ins-Lite® made of natural wood fibers; Graylite®, of the same basic material, but integrally impregnated with

asphalt for greater strength and moisture resistance.

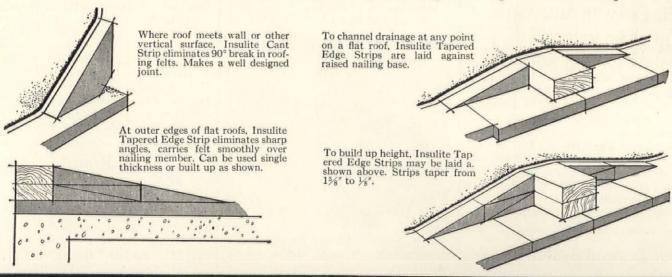
To meet certain troublesome roofing problems, Insulite offers a Tapered Edge Strip and a Cant Strip (illustrated and described below); both are made of the same basic wood fibers as Insulite Roof Insulation to eliminate any hazards caused by introducing another material with different properties.

Insulite provides a uniform, durable and highly efficient insulation that takes rough on-the-job handling without breakage or crushing. It lays fast and

uniformly, is easy to apply.

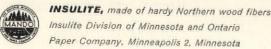
For complete specifications on Insulite Roof Insulation, Tapered Edge Strip and Cant Strip, just call your nearby Insulite representative; or send the coupon to Insulite.

Solve these special roofing problems with Insulite Tapered Edge and Cant Strip



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ZONE

Continued from page 84

either right or left side. New refrigerant circuiting method increases the amount of refrigerant sub-cooling, improving Btu per watt performance because liquid refrigerant reaches evaporator coil up to 20 F cooler than the condensing temperature, Lennox Industries, Inc.

On Free Data Card, Circle 108

Two New Fire Ratings For Acoustical Fire Guard

"Acoustical Fire Guard," introduced a year and a half ago, has received from Underwriters' Laboratories new ratings as fire retardants. A four-hour rating was given an Acoustical Fire Guard ceiling when combined with a cellular steel deck and a $2\frac{1}{2}$ " concrete floor assembly. This system also passed the four-hour test with "penetrations" (recessed lighting fixtures, air conditioning ducts, etc.). A one-hour rating was granted the tile in tests with a floor and ceiling assembly consisting of wood joists and a wood floor. Armstrong Cork Company.

On Free Data Card, Circle 109

Attic Fan with Automatic Shutter Announced

A 30" electric, direct drive attic fan is available which can be equipped with ceiling shutters that open and close with the operation of the fan, and have a "flutter"-proof design of overlapping aluminum louvers mounted in a formed steel frame. Fan is said to be quieter than most kitchen exhaust fans; operates smoothly at 835 rpm. The Emerson Electric Manufacturing Company.

On Free Data Card, Circle 110

Four Drywall Systems Announced

Four new drywall partition systems have been announced by U. S. Gypsum, making such systems announced this year an even half dozen. The new systems are: two-inch solid partition system; double-solid partition system; metal stud partition system; and ceiling and wall furring systems. Two previously released were movable Vaughan walls and semi-solid partition system for residential use. The 2" solid partion is designed to divide space within a living unit. It has a core of 1" monolithic gypsum coreboard, 24" wide, with long edge

tongue-and-grooved, and available in 8', 9', 10', and 12' lengths. Floor and ceiling runners may be wood or steel. The double-solid partition is for party and corridor walls or to enclose mechanical services. It has L or U shaped runners to which the coreboard is screw-attached. The metal-stud partition system consists of a lightweight channel stud set in steel runner tracks at floor and ceiling, and faced on each side with "Sheetrock" gypsum wall-board. It is suitable for practically all types of new construction, plus remodeling and alterations. In the drywall ceiling system, gypsum wallboard or backing board is fastened to a lightweight metal furring channel of special design. Complete ceiling may be decorated or left exposed to receive acoustical tile. Drywall wall furring system has same parts and materials as ceiling system, and may be installed over any surface. United States Gypsum Company.

On Free Data Card, Circle 111

Sheet-Mounted Wall Tile Installs Economically

Sheets of twelve $4\frac{1}{4}''$ x $4\frac{1}{4}''$ ceramic wall tiles can be installed with greatly increased speed and reduced cost. Tile is mounted on strong paper mesh that is twisted and bonded to the tile by a



special cement. Sheets do not buckle in handling, yet mesh can be easily trowel-cut. Mortar, mastic, or mortar mix are suitable for installation, coming in contact with 70 percent of the tile surface. Soaking is not necessary. Stylon Corporation.

On Free Data Card, Circle 112

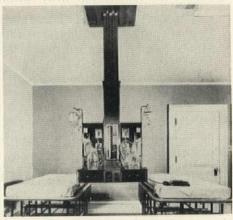
Ceiling Tile Is Cheaper, More Lightweight

Expanded plastic ceiling tile is said to be priced at least 50 percent lower than other standard ceiling tile materials. Rigid material is white, and has a striated surface. Light weight makes possible use of lighter than usual supporting grids. Tile has superior insulating qualities. It is classified by American Society of Testing Materials as a self-extinguishing plastic. Material, 1" thick, comes in 2'x2' and 2'x4'. General Foam Plastics Corporation.

On Free Data Card, Circle 113

Recovery-Room Unit Lowers from Ceiling

A new intensive-care nursing and service unit for hospital recovery rooms telescopes downward to nursing level when needed, and upward above head when not in use. The ceiling-



mounted emergency station makes it possible to bring all supply lines—oxygen, vacuum, and electricity—directly to bedside without crossing floor. Beds can be located in center of room for improved circulation. Unit provides complete facilities for two patients. National Cylinder Gas Division, Chemetron Corporation.

On Free Data Card, Circle 114

Acoustical Board In 4'x4' Size

A new, large 4'x4' size in glass-fiber acoustical-ceiling boards for suspended ceilings has been introduced. The new "Ultracoustic" board features low initial cost, fast installation, minimum of handling and fitting, and reduction of suspension members required. The surface is a travertine fissured design, and can be used with 2'x4' boards of the same design for varying effects. Gustin-Bacon Manufacturing Company.

On Free Data Card, Circle 115

Wood-to-Concrete Adhesive Material

Newly-developed adhesive material rapidly secures wooden-block flooring Continued on page 90

Specify Floor Maintenance to Insure | CONTINUING Beauty of your Interiors

After you have specified flooring, its final clean-up and initial treatment, go one step further: Specify proper continuing care.

> After building acceptance, proper maintenance will display your floors effectively, help set off and complement your interior design-through years of wear.

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Let us prepare for you a manual on the care of the floors you specify. Your client will appreciate this added architect specified maintenance service and you'll like the way flooring complaints will be eliminated.

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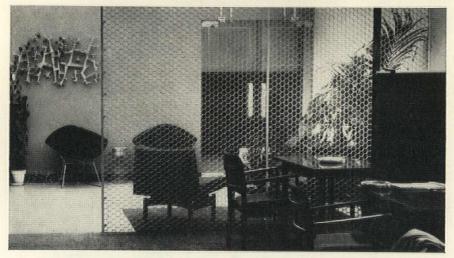
You'll Finish Ahead with

RESILIENT FLOOR

HOW TO TREAT AND MAINTAIN

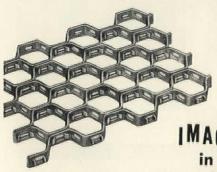
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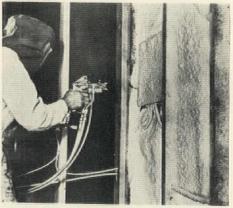
Continued from page 88

and wooden screeds to concrete slab floors and foundations. The new product, "Bondite Asphalt Adhesive," enables wooden blocks to be laid and walked on at once; flooring may be nailed to screeds 30 minutes after application. The material dries to a flexible form that allows expansion and contraction during temperature changes, yet holds wood firmly in place without disbonding. Lion Oil Company Division, Monsanto Chemical Company.

On Free Data Card, Circle 116

New Foamed Insulation Cuts Installation Time

A new liquid spray foam insulation, promising installation in half the time of conventional insulations, has been developed. The foamed-in-place urethane, expanding to 30 times its original volume within seconds of application, is permanently bonded in place, will not shrink, is not subject to damage by mildew or age, and is



odorless. Spraying is done with a high-speed gun that mixes the chemicals, atomizes them, and forces them out of the gun. The insulation has a K factor of 0.15 at 75 F, and a 2" layer is equal to or better than 3" of the best conventional insulations. Additional advantages: a permanent monolithic seal devoid of seams; excellent soundproofing characteristics; and high moisture-vapor impermeability almost equal to plastic film. Dayton Industrial Products Company Division, Dayco Corporation.

On Free Data Card, Circle 117

Electronic Air Cleaner Reduced in Size

New panel-type electronic air cleaner is only 2" thick in direction of air flow, occupies less than 1/60 the space needed for similar equipment 10 years



For years, UNIVERSAL has been paying the bill for the replacement of in-warranty inoperative fluorescent ballasts. These payments are a direct part of the exclusive and comprehensive UNIVERSAL Two Year Warranty Service Program with (DE) * Architects, engineers, contractors, distributors, fixture manufacturers and maintenance personnel are all relieved of the burden of service.

Should you be confronted with a lighting failure which appears to be abnormal, regardless of the number of ballasts involved, you are requested to telephone UNIVERSAL -COLLECT — and ask for (DES) * Within 24 hours of your phone call, one of our field engineers will visit your installation. Assuming that our technical people determine that the lighting failure stems from ballasts which are being used in proper application, UNIVERSAL will arrange for the replacement of those ballasts and pay all charges in connection with the replacements, including labor. This is made possible by the high quality performance of UNIVERSAL "Service Guaranteed" BALLASTS in millions of fluorescent fixtures everywhere. A fine product can afford a fine guarantee.

You owe it to your own peace of mind to get the full details on this program. MAIL THIS COUPON FOR DESCRIP-*Technical Engineering Service TIVE BROCHURE.

Executive Offices and Plant: 29-51 East Sixth Street, Paterson 4, N. J.

Branch Off. & Warehouse: 4402 W. Jefferson Blvd., Los Angeles 16, Cal.

BALLASTS

The only complete service program in the ballast industry!

A COLUMN TO SERVICE STATE OF THE SERVICE STATE OF T	ANUFACTURING COR reet, Paterson 4, New Jersey	PORATION Dept.
	me your brochure describe Engineering Service) PROGR	
NAME		
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STREET	☐ Distributor	☐ Maintenance Man
STREET		☐ Maintenance Man

THE LARGEST INDEPENDENT MANUFACTURER OF FLUORESCENT For more information, turn to Reader Service card, circle No. 317 TRANSFORMERS IN THE UNITED STATES

key problem SOLVED

—specifications included

ELKEE



the only complete system of key control

The new Time & Life Building, Rockefeller Center, New York, Harrison, Abramovitz & Harris, Architects. George A. Fuller Company—John Lowry, Inc., General Contractors. Contractors. Charles Kurzon, Inc., Hardware Contractor.



The TELKEE

At Rockefeller Center's new 48 story Time & Life Building, TELKEE solves KEY problems before they occur.

During Construction-All keys delivered in TELKEE Key Gathering Envelopes, each identified and indexed. TELKEE solved usual problems of lost, damaged, and unidentified keys.

At Completion-Using data on TELKEE envelopes, owner transferred keys to 4 TELKEE Units installed by Hardware Contractor, Entire lock system was immediately under owner's control. TELKEE insured maximum convenience and security.

After Occupancy—TELKEE controls the keys to every lock, including those on owner-installed equipment, TELKEE keeps keys in authorized hands; maintains master key system security; virtually eliminates eventual relocking expense.

From 21 to 2240 key capacities in 8 popular models, TELKEE is completely flexible to fit every application, every budget. Send for complete TELKEE specification data file.



The MOORE KEY CONTROL® System

P.O. MOOR	E, INC., Glen	Riddle 45, Pa.
Send descr	iptive and specification	data on TELKEE
NAME		
FIRM	- I as the Lag	
ADDRESS		
CITY	ZONE	STATE

For more information, circle No. 318

Continued on page 90

ago. Capacity ranges (with size) from 640 to 1000 cfm per panel. Removes particles as small as 1/2,500,000 of an inch from the air. A gage shows when dirt-collecting pad should be changed. Power requirement is only that of a 25 watt light bulb. Trion, Inc.

On Free Data Card, Circle 118

Light-Weight, Load-Bearing Panel Wall System

"Stran-Wall," a new load-bearing panel wall system for one- and twostory buildings, includes three major elements in one package from one source: light-weight, load-bearing steel framing; porcelain enameled curtain wall panels that are slipped into grooves in the steel structure; and aluminum mullions, jambs, sills, and headers which are snap-fit or attached by concealed screws. Other features are positive water seal and ventilation to reduce condensation, thin-line mullions, and a choice of hopper, fixed, and projected windows. Stran-Steel Corporation, Division of National Steel Corporation.

On Free Data Card, Circle 119

Dutch-Made Table / Desk Of Unusual Versatility

A remarkedly versatile drawing table/ desk has been recently introduced by a Dutch firm. Adjustable from a low horizontal position of 30" to a high of 46", the "Reply" can be adjusted to any inclination from completely



horizontal to completely vertical. A device on one leg of the molded-steel frame permits adaptation to any floor condition, keeping the unit constantly level. Unit is equipped with a 3/4"thick drafting board in sizes up to 30" x 40" and a detachable tray for drawing equipment. Table has received an award for design and quality from an international jury in Brussels. Netherlands Trade Commission.

On Free Data Card, Circle 120

are you spending

for a one cent job?



If you're duplicating drawing details, you're squandering precious hours of costly drafting time. STANPAT, the unique tri-acetate that is pre-printed with your standard and repetitive blueprint items, cuts time involved from 3 hours to 15 seconds! Figured at current pay rates, this means a \$12 job at less than one cent . . . the STANPAT way. Easily transferred to your tracings by an adhesive back or front, STANPAT relieves your engineer of time-consuming and tedious details, freeing him to concentrate on more creative work.

here's how simple the STANPAT method is!



PEEL the STANPAT from its backing.

PLACE the STANPAT into position on the tracing.



PRESS

into position.

or come off.

will not wrinkle



STANPAT is available in two types of adhesive backs:

- Rubber base for standard drafting and tracing papers

Resin base to prevent leaching for papers that contain oils

But whatever the application may be, there's a STANPAT product for your specific needs. STANPAT has a guaranteed shelf life of one year from date appearing on tab end. For further information and technical assistance, complete the coupon below and mail.

STANPAT CO. Whitestone 57, N.Y., U.S.A. Phone: Flushing 9-1693-1611

☐ Kindly send me samples.	STANPAT literature and DEPT, 22
Name	
Title	
Company	
Address	

For more information, circle No. 319

FOR 1500 MA LAMPS

POWER-LUME, best for low brightness. Specifically designed for 1500 MA lamps. Flat or "V" type reflectors. White porcelain enamelled steel or Alzak aluminum. Approximately 20% uplight. Bonus in light output and reduced lengthwise brightness.

WHEELER REFLECTOR

SETS THE PACE IN HIGH OUTPUT LIGHTING

Matches modern advances in lighting to give you...

- ★ High light output with low brightness
- Maximum visual comfort
- Easy, economical installation and maintenance
- Full advantage of high intensity, carefully controlled for all applications

BI-FLO

Superior lighting quality and efficiency for T-12 1500 MA lamps. 30° and 49° louvers for variety of shielding requirements. Clean, neat lines. Porcelain or painted finishes. Approximately 28% uplight.

D-LINE

Quality porcelain or aluminum reflectors for all 1500 MA lamps. 27° painted steel louvers for 1500 MA lamps when lamp type is specified. Approximately 12% uplight.

NEW "Q" LINE

Compact, light-weight outdoor fixture utilizing new "pencil size" QUARTZLINE® lamps. Up to 10 times more light per square foot. Lower initial, installation, maintenance and operating costs.

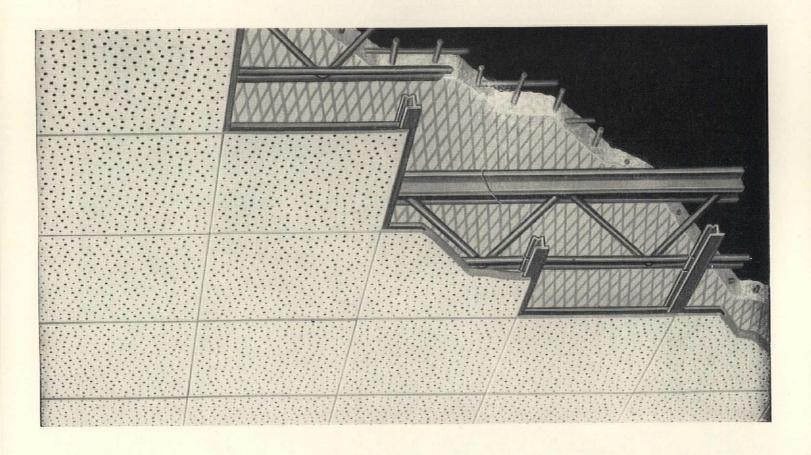
® General Electric Co., Inc.

WHEELER REFLECTOR

Company · Division Franklin Research and Development Corp.

HANSON, MASSACHUSETTS CYpress 3-6351





UL-tested Lo-Tone acoustical F/R* tile

In tests conducted by Underwriters Laboratories, Inc., the Lo-Tone Acoustical F/R tile floor-ceiling assembly afforded superior protection against the passage of flame and transmission of heat, yielding a 2-hour time-design rating. The 5%" thick Lo-Tone Acoustical F/R mineral tile actually limited the transmission of 1850° F fire-box temperature to the allowable 250° F rise above ambient for more than 2 hours in this grueling test.

Cut new construction costs with this modern fire protection technique. The Lo-Tone Acoustical F/R floor-ceiling system eliminates conventional wet methods of fire protection and provides fast protection to meet building codes.

Speeds remodeling jobs where fire protection is required. Lo-Tone Acoustical F/R tile application is *completely dry*. Permits off-hour work without upsetting stores and offices. No moisture nuisance to slow other trades on the project.

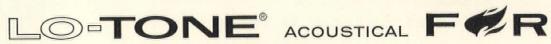
Fire protection is a bonus . . . over and above Lo-Tone Acoustical F/R tile's enduring beauty of ceiling design and excellent acoustical properties.

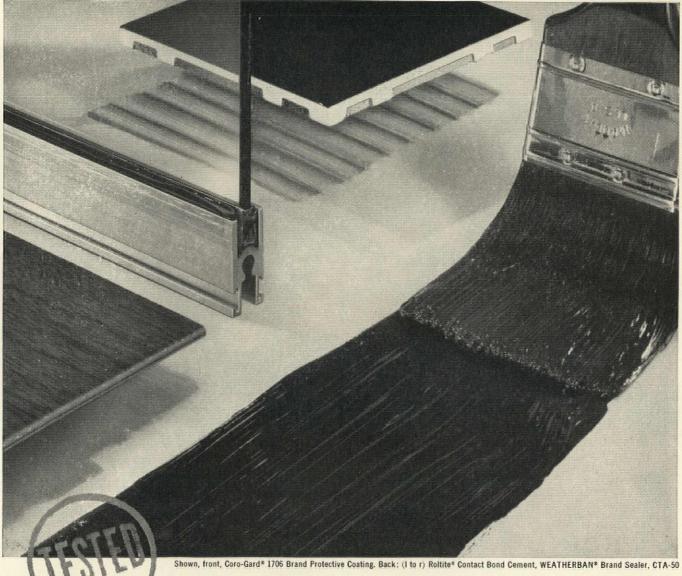
Helps trim insurance rates by giving owners bonus fire protection above requirements of many local building codes. Often gives more protection than more expensive alternate methods.

Available in 12" x 12" sizes, Lo-Tone Acoustical F/R tile gives you truly enduring protection and enduring beauty for the years to come. Write today for "AIA File 39-B" for detailed information about this new economical floor-ceiling system: Wood Conversion Company, Dept. 67, St. Paul 1, Minnesota.

AVAILABLE PATTERNS:







PROVED! 3M gives you a complete line of quality adhesives, coatings and sealers for building

For example: **WEATHERBAN®** Brand Sealer has proven flexible and strong after 10 years' weather exposure. It outlasts conventional caulking many times over, provides excellent weather resistance without shrinkage for masonry, glass, aluminum, curtain wall construction.

3M Ceramic Tile Adhesive CTA-20 supports more than $\frac{1}{2}$ ton per tile after 7 days' water immersion. Together with its solvent base counterparts—CTA-11 and CTA-12 plus water-dispersed CTA-50—it offers strength and water resistance from 100% to 900% above standard requirements.

Roltite® Water Base Contact Cement—for plastic laminates and plywood, was developed to end special safety precautions.

Nonflammable during application, it offers good workability, plus good heat and water resistance.

Coro-Gard® 1706 Brand Protective Coating gives longer life to rain gutters, downspouts, concrete walls, metal roofs, wood storage sheds, and similar surfaces. Resistant to water, oil, acids, alkalis and weather extremes, it has been thoroughly proved in the laboratory and in field use.

Use 3M building products with complete assurance that they provide the best in durability, consistent quality and long-range economy. For free literature, see your 3M distributor. For more information, see Sweet's Catalog, or write: AC&S Division, 3M Company, Dept. SBC-90, St. Paul 6, Minnesota.

"Coro-Gard," "WEATHERBAN" and "Rollite" are Reg. T.M.'s of 3M Co.

ADHESIVES, COATINGS AND SEALERS DIVISION

MINNESOTA MINING AND MANUFACTURING COMPANY

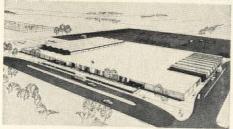
... WHERE RESEARCH IS THE KEY TO TOMORROW



AIR/TEMPERATURE

Research-Study School Presented in Report

Environment for Learning is a 20page report on a research study in secondary-school design. The school that emerged from the study is described in detail, with plans and renderings, and compared with the conventional school on which its educational specifications were based. The



research school clearly demonstrates the value of fresh concepts and new approaches to school planning; in particular, cost comparisons point up many advantages of the flexible, compact "EFL" school. Study was conducted by Goleman & Rolfe, AIA, architects and engineers of Houston, Texas. Carrier Corporation.

On Free Data Card, Circle 200

Radiant Panel Heaters Of Shatterproof Design

Data sheet, 2 pages, describes "Texsun" radiant electric panel heaters, the only shatterproof glass units on the market. Panel heaters may be installed in wall or ceiling, are safe to the touch, clean, and economical. Units are of simple and handsome design, suitable for installation in a variety of interiors. Information is supplied for 5 models. Electric Heating Corporation.

On Free Data Card, Circle 201

CONSTRUCTION

Use of Computers In Civil Engineering

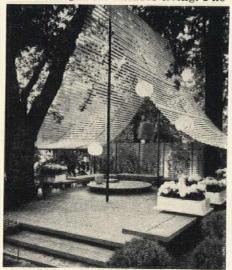
A new, 11-page index of G-15 computer programs in civil engineering is available. The index contains an extensive listing of applications prepared by G-15 digital computer users, and submitted to the Bendix Users' Exchange Library. Programs in the following categories are represented: traffic, surveying, earthwork, culverts

and sewers, soils, interchange, bridges and piers, beams, columns, section properties, miscellaneous analysis, and hydraulics. Companion literature, Organizational Problems Encountered in Setting Up a Computer, is a 20-page article presented at the Structural Engineering Conference at the University of Illinois in 1958. It is based on experiences of civil-engineering consultants with electronic computers. The Bendix Corporation.

On Free Data Card, Circle 202

Landscaping Ideas In Redwood

Garden Redwood Ideas from California, 16 pages, is a potpourri of imaginative designs for outdoor living, Pho-



tographs and lengthy captions present a variety of outstanding decks, benches, screens, overhead shelters, planters, bridges, walks, and fences by noted designers. Notes on the last two pages define the grades of garden redwood, and describe fastening and post-setting methods. California Redwood Association.

On Free Data Card, Circle 203

Compilation of Brochures On Structural Components

Spiral-bound book, 106 pages, compiles all current building-product literature of company. Complete data is given on insulated metal curtain walls, metal-clad fire walls, rolling steel doors, electrified floors, long-span decks, steel roof decks, acoustical and troffer forms, acoustical ceilings, structural steel, and steel-plate components. Specifications, construction details, and appropriate technical data are included for each type of product. The R. C. Mahon Company.

On Free Data Card, Circle 204

Manuals Discuss Wood for Residential Construction

Two comprehensive, well-designed manuals on wood have been published —Wood Frame Construction for Residential Buildings, 48 pages, and Post and Beam Construction for Residential Buildings, 32 pages. Each is a readable and thorough discussion of its subject. Many isometric drawings and considerable text give full details on framing; complete beam tables are also included. Canadian Wood Development Council.

On Free Data Card, Circle 205

Modular System For Steel Buildings

AmBridge Modular Schools describes a system of modular steel components utilized in a number of school buildings. Booklet, 20 pages, enumerates design and construction advantages, among them the speed of erection: 17 weeks from foundation to completion. Structural components shown in section include open-web joists, trusses, square tubular columns, and corrugated roof deck; sample colors for exterior and interior panels are also shown. Modular system has recently been used in U.S. Post Office at New Hyde Park, N.Y., representing first use in non-school construction. American Bridge Division, United States Steel Corporation.

On Free Data Card, Circle 206

Comprehensive Manual On Perforated Metals

Architectural Handbook of Perforated Materials provides complete design and technical information on full line of products. While handbook concentrates primarily on the heavier-gage



grills, it also presents a variety of decorative designs in lighter-gage materials. Each grill is displayed in overall pattern, and is accompanied by technical information, detail drawings, and tables in a separate section of the 64-page book. The Harrington & King Perforating Company, Inc.

On Free Data Card, Circle 207

Lead Pads Used for Vibration-Free Buildings

An illustrated 4-page brochure shows several examples of the use of leadasbestos pads to reduce or eliminate vibration in buildings adjacent to railways, subways, or other heavy traffic areas. Among the examples described is the new 54-story Union Carbide Building in New York, N. Y. Step-bystep photos show the operations of placing, positioning, and grouting one of the 115 pads used. Typical engineering drawings and specifications for this building, other American buildings, and several Canadian projects are also included. Lead Industries Association.

On Free Data Card, Circle 208

New Aluminum Soffit Available in Rolls

A new simple-to-install ventilatedaluminum soffit system, developed through extensive research and jobsite tests, has been announced. Prefinished with a new, more durable baked-on enamel, the new soffit system eliminates peeling and warping of vulnerable eave overhangs, and eliminates the need for frequent repainting. The system is installed by cutting the soffit material (in 50' rolls) to required length and slipping it into place through aluminum supporting channels that are nailed to the building. A flexible plastic rod is then pressed into place to hold edges of the soffit sheet. Application of product is fully explained in 8-page booklet. Soffit material, crimped and stucco-embossed, is available in perforated and non-perforated form, in widths up to 48". Reynolds Metals Company.

On Free Data Card, Circle 209

DOORS/WINDOWS

General Information On Weatherstripping

What You Should Know About Interior and Exterior Weatherstripping is the title of an informative new 14-page booklet. Published in the interests of improving building methods, it is not a sales booklet for specific products. Description of general types and materials is followed by recommenda-

tions for weatherstripping against dust, noise, drafts, leaks, and light. Pemko Manufacturing Company.

On Free Data Card, Circle 210

ELECTRICAL EQUIPMENT

Suggested Methods for Residential Lighting

Forty ways to use lighting in the home are shown in The Light Side of Decorating, a new booklet published by the manufacturers of "Luxtrol" light controls. Included are at least four lighting schemes for every room type, all designed by C. Eugene Stephenson, FAID, internationally-known designer and authority on residential lighting. The 36-page booklet contains full-color sketches of its well-lighted rooms, each keyed to wiring diagrams and installation sketches. A directory shows how to build and install such features as valances, brackets, coves, etc. Write (enclosing \$.25) Superior Electric Company, Bristol, Conn.

Comprehensive Book On Signaling Systems

A new 88-page manual describes air and electric signal systems and lists specifications of horns, bells, buzzers, chimes, and sirens. Included in the new publication are sections on gravity-drop and lamp-type annunciators, and accessory equipment such as door openers and clocks. Selection of the proper type of signal for various background noise levels and work areas is illustrated by charts and diagrams. Sperti Faraday, Inc.

On Free Data Card, Circle 211

New Lighting Fixtures Described in Folders

Three new 4-page brochures—entitled Exit and Aisle Lights, Opal Luminaires, and Opal Drum Lights—are now available. UL-approved exit lights described in first brochure can be either incandescent or fluorescent and are furnished with unbreakable glass-fiber lens panels. The opal luminaires are produced in both pendant and spin-up fixtures, in satellite, spheroid and sphere shapes. Opal sphere post lights, designed for outdoor use, have a special weatherproof gasket and are base-tapped for 1" pipe mounting. The third brochure describes round and square opal drum lights having hand-

blown "Thermopal" glass hinged to a "Dielux" diecast aluminum pan. Technical information on dimensions, construction, and performance accompanies illustrations. Prescolite Manufacturing Corporation.

On Free Data Card, Circle 212

Data on Lighting Levels

A new edition of the booklet Footcandle Levels and Interior Lighting Design is now available. The 60-page, pocket-size manual contains valuable information on modern lighting practices for various types of luminaires and light sources. A table indicates the recommended lighting level for an extensive list of room types. Write (enclosing \$.10) to: Westinghouse Lamp Division, P.O. Box 388, Bloomfield, N. J.

FINISHERS/PROTECTORS

Directions for Urethane Wood Finishes

Urethane Coatings for Wood, 3 pages, describes two clear-resin systems for producing highly-durable finishes that protect and enhance the natural grain of wood. Bulletin, unillustrated, gives data on preparation of surface, application, and coverage. B. B. Chemical Company.

On Free Data Card, Circle 213

INSULATION

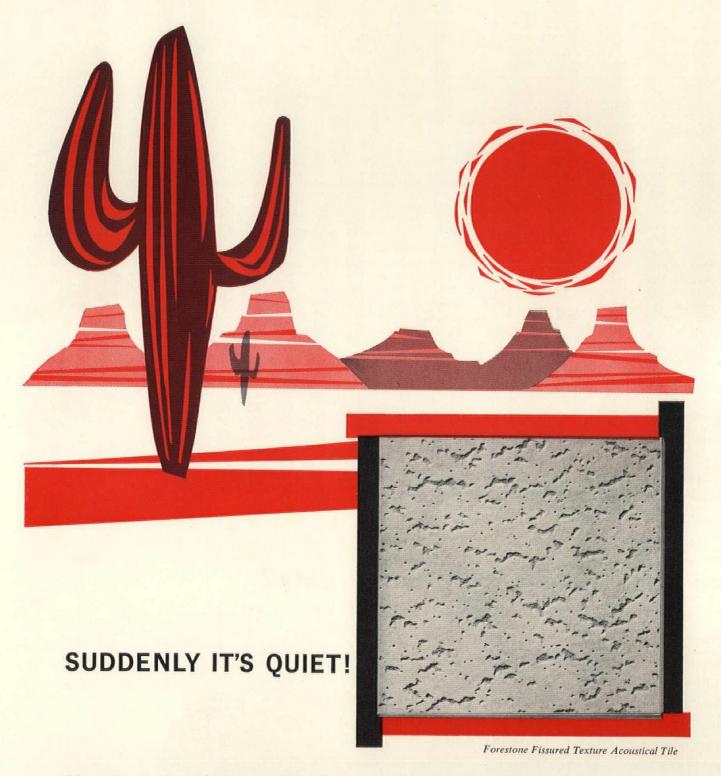
Installation Systems For Acoustical Tile

Mechanical Attachments for Erecting Acoustical Tile, 12 pages, presents 10 "Securitee" systems, each depicted with full-page isometric and sectional drawings. Systems included are 1½" channel, H-section clip, line exposed, line concealed, strip panel, T & G. Short-form specifications are provided. W. J. Haertel & Company.

On Free Data Card, Circle 214

Sound Data for Partitions and Floors

For the first time in MLMA technical bulletins, information on sound-transmission loss is available on a resilientclip system used in conjunction with Continued on page 101



Whenever you're in a quiet room—look up. If there's a beautifully textured acoustical ceiling, chances are it's Forestone*. The sounds you never hear are absorbed by Forestone. This deep-etched woodfiber tile meets Class C requirements of Federal Specification SS-A-118b... exclusive Biotox processing protects it against termites, mildew and mold. Forestone is available in four distinctive textures for all types of installations including ceiling boards for grid systems. Refer to Sweet's File or call your Simpson Certified Acoustical Contractor (look under Acoustical Materials in the Yellow Pages) for full information. Write for folder: Simpson, 2004J Washington Bldg., Seattle 1, Washington.



quiets rooms . . . beautifully

RELY ON SIMPSON — QUALITY SINCE 1895

SAC-07/3451 *Reg. U.S. Pat. Off. - U.S. Pat. No. 2,791,289



For more information, circle No. 324

New Castle Products, Inc. **DEPT. J 320** New Castle, Indiana Gentlemen: Please send me your book on heavy duty partitions. Address

In Canada: New Castle Products Canada, Ltd., St. Lambert, Que.



Continued from page 98

a prefabricated-metal-stud assembly. Sound Insulating Partitions and Floors, 4 pages, advises that the degree of sound resistance desired is influenced by factors other than those involved in the selection of a construction assembly. Location is important, according to the text, because an area adjacent to a busy street, for instance, has higher noisemaking levels than a room in isolated areas. Illustrated tables give figures on sound-transmission reduction for solid and hollow partitions and for floors of various construction. Metal Lath Manufacturers Association.

On Free Data Card, Circle 215

Guide to Effective Use Of Thermal Insulation

Re-thinking Thermal Insulation, new 16-page booklet, is a guide to the best use of thermal insulating materials. It emphasizes the "economic thickness" approach to specification, which enables management and engineers to determine the point at which an insulation gives the greatest financial return for its cost. Characteristics of different types and purposes of insulation are given in detail, and the question of surface temperature determining insulation thickness is reviewed. A worksheet for calculating economic thickness is included. National Insulation Manufacturers Association.

On Free Data Card, Circle 216

SANITATION/PLUMBING

Plastic Drain Fittings Presented in Folder

Literature on plastic drain and sewer fittings, 6 pages, shows available sizes and types of fittings in large-scale photographs, and presents the five easy steps of installation. Advantages of the material are its light weight—one-tenth that of cast iron—and its ease of handling—joints do not need threading but are simply joined with solvent. Sloane Manufacturing Company.

On Free Data Card, Circle 217

Complete Data on Underground Sprinklers

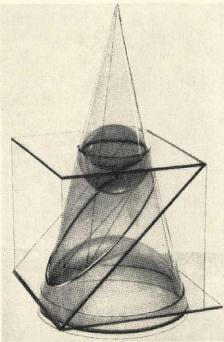
Keeping Lawns Beautiful gives essential operating data, specifications,

and suggestions for use of 16 different underground sprinkler heads. The various patterns and sizes—including squares, rectangles, and circles—are described, with coverage, discharge, and pressure data. Catalog, 24 pages, enumerates all accessories needed for complete installations. Rain Jet Corporation.

On Free Data Card, Circle 218

SPECIAL EQUIPMENT Plastic Models Aid In Studying Shapes

New 40-page catalog, Mathematical Models for Teaching, illustrates hundreds of three-dimensional, clear-plastic models in Guenter Herrman line



now being distributed in U.S. Models are grouped topically under the subjects of: plane, solid, and analytical geometry; curve-drawing appliances; projections, elevations, traces, and intersections; interpenetration of solids. Transparency of the models enables one to see not only the external shape, but also concealed edges, enclosed intersecting planes, and internal dimensions. Arthur S. LaPine & Company.

On Free Data Card, Circle 219

Compilation of Articles On Furniture Woods

Fine Furniture Woods, a 24-page reprint of this association's articles that were published in a consumer magazine, is a handsomely-presented

collection of interesting facts on walnut, cherry, maple, birch, oak, and the more exotic woods. In readable fashion booklet discusses the use of the particular wood in early days, the properties that suit it for its special uses, and the

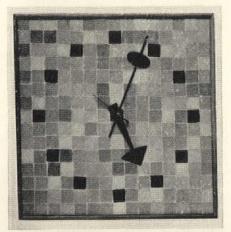


range of possible finishes. Full-page sketches show the shape of the mature trees; smaller photographs show distinctive pieces of wood furniture. Fine Hardwoods Association.

On Free Data Card, Circle 220

Stylized Faces For Institutional Clocks

After a comprehensive survey of architects suggested high styling in clock systems, 15 new clock faces have been designed for "ClockMaster" system.



The unusual designs, shown in 8-page booklet, are a collaboration between the Howard Miller Clock Company and Minneapolis Honeywell, and are designed by George Nelson. ClockMaster system is used in hospitals, schools, banks, and offices. Minneapolis Honeywell.

On Free Data Card, Circle 221

Street Zoos Offered With Play Sculpture

Street zoos are the latest items of playground equipment featured in 32-Continued on page 102



Architect: James, Meadows and Howard, Buffalo, N. Y.

Modern Fleetlite Sliding Windows Chosen for Tower Dormitory on the University of Buffalo Campus

Rising eleven floors above the University of Buffalo campus is the new Tower Dormitory...a masterpiece in concrete, brick and colorful terra cotta with row upon row of Fleetlite Aluminum Double Windows.

In planning this campus home for over 400 student residents, University authorities selected Fleetlite double windows for reasons of both comfort and economy. By a simple adjustment of the interior and exterior sliding sash, students may enjoy indirect ventilation regardless of the weather. No stuffy rooms, no drafts, no possibility that rain or snow will damage furnishings.

Fleetlite double windows also mean double economy. A "blanket of air" insulation between the sash Territories open for qualified Sales Representatives, Direct representation in Canada.

PLEET OF AME Dept. PA-90, 201 Buffalo 25, New	5 Weldon Avenue
	complete Fleetlite information.
Name	
Name	

results in more efficient heating and subsequent fuel savings. At the same time, there is economy in maintenance. Durable aluminum requires no painting; vinyl plastic replaces putty; and, since all sash may be removed from the inside for cleaning, costly and dangerous outside window washing is eliminated.

Pile Mohair Weatherseal	
Weatherseal	A SHARE
Fiberglas	A STEEL
Screening	ELS 1. E.
	AMERICAN IN
Exterior Sash———	46
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	3/ 3/ //
Pile Mohair	1 11 11
Weatherseal	
Weatherseal	
A SHELLY	Double Sliding
F	Window



Aluminum Windows
Sliding Glass Doors
Jalousie Windows and Doors

For more information, turn to Reader Service card, circle No. 325

Continued from page 100



page catalog. Units are galvanized tubular steel, with a glass-fiber teardrop shape that holds a 30"-diameter animal cage or a plastic display unit. Catalog also includes photos of standard items—such delightful pieces as turtle tents, tunnel bridges, fantasy villages, and play façades. Prices, weights, and installation information are noted. Creative Playthings, Inc.

On Free Data Card, Circle 222



Recent Installations Of Thonet Furniture

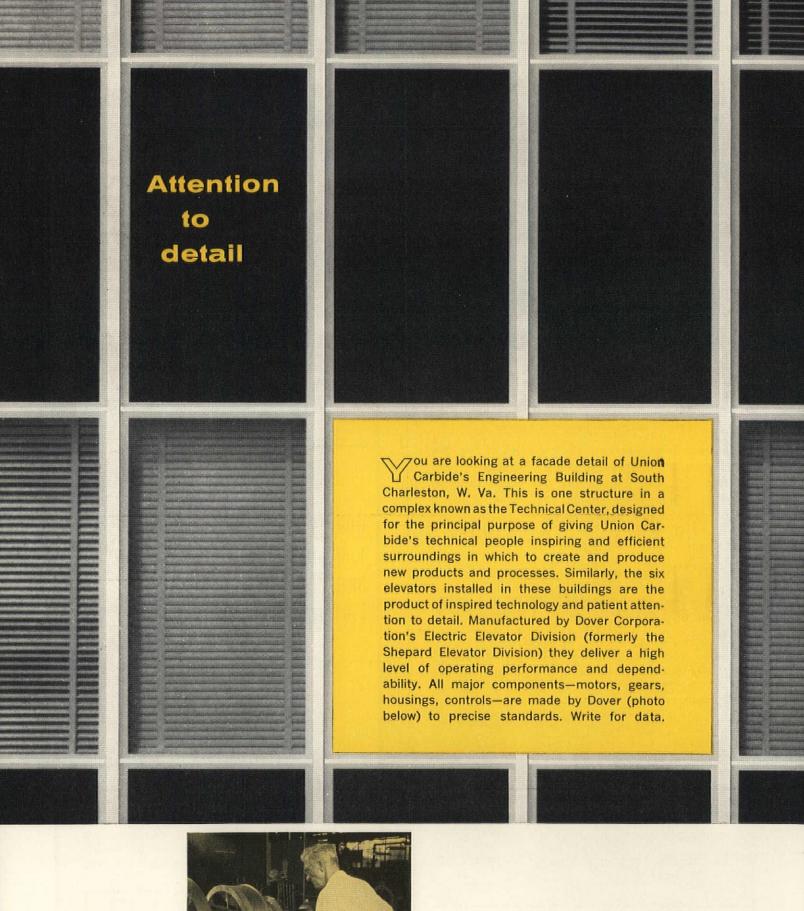
Handsome spiral-bound brochure, 24 pages, shows some of the recent designs of this 130-year-old firm. Color photographs of prominent public installations are contrasted with free sketches of the most famous of Thonet's masterpieces, in an excellently-designed promotional booklet. The booklet is not a catalog of the complete line, but will be a source of pleasure to anyone who enjoys fine design in both product and literature. Thonet Industries Inc.

On Free Data Card, Circle 223

Expanded Line of Solar-Screen Grills

Expanded line of "Ceramic Veneer" grills, used for solar screens, is shown in new 8-page brochure. The augmented line now includes 12 standard units,

Continued on page 106





DOVER CORPORATION
Electric Elevator Division
5051 Brotherton Road, Cincinnati 9, Ohio



DOVER ELEVATORS

Fine elevators since 1861

STAIN...OR PAINT?



Architect: Pietro Belluschi, Cambridge, Mass. Builder: Eichler Homes, Palo Alto, Cal. Cabot's Stains on exterior & interior

To answer this question, an architect weighs the advantages and limitations of each against the job at hand . . . effect, durability, and cost on wood surfaces inside and outside the home. Cabot's Stains, for example, answered all requirements for the home above. Here are the reasons for today's architect-led trend toward stains:

Cabot's STAINS

- Economical ½ the cost of paints.
- Trouble-free no cracking, blistering, or peeling.
- · Offer unique color effects in a wide color range.
- Grow old gracefully, may be stained or painted over later.
- Penetrate deeply, dyeing and preserving the wood fibers
- Enhance the beauty of the wood grain; leave no brush marks.
- Require no priming coat; are easier to apply and maintain
- Need no thinning; surfaces need no scraping or sanding.

For best results, the best in Stains . . . Cabot's Oilbase or Creosote Stains.

SAMUEL CABOT INC.,

928 South Terminal Trust Bldg., Boston 10, Mass. Please send color cards on Cabot's Stains.



Quality
you can
measure by
Performance

Sparkling new Libbey-Owens-Ford Building in Toledo, Ohio, rises 15 floors above street level. New, modern, 20-ampere, Rocker-Glo switches control the lights used in all office areas.

P&S Rocker-Glo can be used on fluorescent and tungsten filament loads at full current rating. Quiet in operation, it is smoothly activated by pressing, pushing, rocking or rolling.

Note: P&S Super AC Switches (20AC1) were also used in this building in all hallways and laboratories.

For information, write Dept. PA-96





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Continued from page 102



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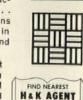
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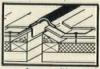
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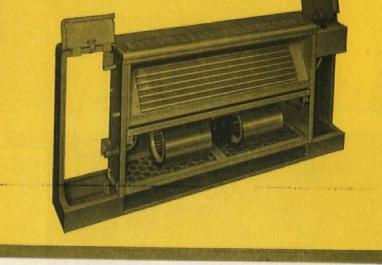


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