WASHINGTON, D.C. The controversy over the AIA Headquarters building has dragged on long enough to try the patience of Mary Worth. Just how deep the frustration ran became evident late last month when architects Mitchell/Giurgola, who had prepared three major designs for the new building in four years, withdrew from the project.

Their decision followed a final unsuccessful plea to the Washington Fine Arts Commission to withdraw their objection to the latest design. Read by Romaldo Giurgola to the Commission, the plea stated:

"After the rejection of the last solution by the Fine Arts Commission and the subsequent unanimous approval of the same by the board of the AIA, we advised the chairman of the building committee that it was our intention to decline any further involvement in the project. The acceptance of the present design by the Commission of Fine Arts is conditioned on elimination of what has been called the 'notch,' a recess in the interior elevation of the building. We feel that such an element, almost invisible from the street and deep into private property, is an integral part of the design and belongs to the personal interpretation of the architect, and it is out of the scope of the objective consideration of the Commission of Fine Arts. "We have complied with the objections to the first solution with: (a) reduction of building height, based on a new program; (b) preservation of the present garden up to and including the existing wall and the enlargement of the garden beyond it; (c) an approved use of materials; (d) a new pattern of fenestration.

"We cannot make changes to the present preliminary solution without abdicating our integrity as architects and without betraying the confidence placed in us by our clients."

"We ask the Commission of Fine Arts to reconsider the previous rejection and to approve the present solution, thus enabling us to proceed to more advanced stages of the project."

At a late September meeting in San Antonio, the AIA regretfully accepted Mitchell/Giurgola's resignation. Now the task is to find another architect. Just how that will be done is up to the headquarters committee, under the chairmanship of Max Urbahn. It's tough being a client.

ATLANTA ARTS IN MARBLE HALLS

ATLANTA, GA. On October 5, the French Ambassador, M. Charles Lucet, unveiled a bronze Rodin sculpture, "L'Ombre," in front of the Atlanta Memorial Arts Center. The sculpture is a gift of the French government to the Atlanta Arts Alliance, which built the center as a memorial to the 122 Atlanta art patrons killed in a 1962 airplane crash at Orly airport near Paris, and its unveiling was part of the center's dedication ceremonies.

Designed by Toombs, Amisano & Wells of Atlanta, the five-story memorial center, which is of concrete with a marble facing, houses four buildings in one. It is, they proudly claim in Atlanta, the only building in the country to bring together all visual and performing arts under one roof.

Included in the building will be a formal art museum, whose first exhibit will put on display 59 French paintings from Poussin to Picasso, lent by Parisian museums. Affiliated with the museum is a Junior Activities Center, which will handle educational programs for young people.

The Atlanta School of Art has quarters in the center, with the school's fall term already underway in the building.

NEW YORK, N.Y. In late September, ten teen-agers, five Negroes, three Puerto Ricans, and two Caucasians were at work in the architectural offices of Eggers & Higgins learning drafting. In a program as remarkable for its method of implementation as for its potential results, Eggers & Higgins have done what the national AIA and numerous local chapters have talked about for some time: provide an on-the-job training program that will interest underprivileged youths in an architectural career.

In conceiving their program, Eggers & Higgins started with a vast dissatisfaction with the quality and price of drafting talent. They found they were hiring students out of school, paying them professional wages, and then retraining them to do drafting of architectural details the way it is done in a large office, which, of course, differs vastly from school training. Little or no concrete or steel drafting is taught in schools, and the light wood framing and residential-building drafting that is taught is of little use in a large urban firm.

Dave Eggers therefore asked himself, why not take students who have graduated from or dropped out of high school and train them in architectural drafting, while paying them a minimum wage ($80 per week). His firm has done just that. He expects to be able to offer full-time jobs to perhaps four or five of the top graduates of the program and hopes to place the others with firms in the area.

Eggers & Higgins offers a certificate to each student who successfully completes the 16-week course. Teaching it is Joseph Rivellese, who also teaches at the State University of Brooklyn. And in the afternoon when Rivellese is not there, members of the firm come in and talk about such aspects of architectural work as specs, materials, and site work.

When they first started thinking about the alarming dearth of drafting talent, Eggers & Higgins answered an
of the Vocational Guidance Office of the Department of Labor offering help to employers willing to hire youths from underprivileged neighborhoods. Actual screening of candidates was done by a non-profit organization, the Vocational Foundation, Inc., working with the Labor Department. Careful screening is the key to a successful program. "We screen them for desire, aptitude and intelligence," says George Carson of the Vocational Foundation, who did most of it. As it turned out, all but one of the original class members had some drafting training. However, it was of course necessary to start the on-the-job training with fundamentals. Not every firm is capable of undertaking such a program, and Eggers maintains that a firm smaller than his 180-man organization would have trouble supporting the 10 to 12 students necessary to attract a professional teacher. But almost all major cities have larger firms and the program is a welcome example of action in the midst of a flood of talk.

NEW R.I.T. CAMPUS COMES TO LIFE

ROCHESTER, N.Y. This month, the Rochester Institute of Technology will dedicate its new $60-million campus located on 1300 acres just south of this upper New York State town. In all, the campus has 13 academic buildings and a dormitory complex for 1900 students in the first phase of construction, in anticipation of a student enrollment of 20,000 by 1975.

The new campus has two distinct groupings of buildings (1): academic (top) and residential (bottom) with a long connecting pedestrian mall. Both groups have facades of iron spot brick, and despite the number of architectural firms that worked on the buildings — six in all — the campus achieves a remarkable harmony. Throughout, there are battlement roof lines and recessed windows. Lawrence Anderson, dean of the architectural faculty at M.I.T., was coordinating architects for the seven-year project, and his firm, Anderson, Beckwith & Haible of Boston, designed the Applied Science, Science and Central Services Buildings (2). Kevin Roche, John Dinkeloo & Associates of Hamden, Conn., did the Administration Classroom, College Union, and Physical Education and Athletic Buildings (3); Hugh Stubbins & Associates of Cambridge designed the Arts and Graphic Arts Buildings (4). Harry Weese & Associates of Chicago are responsible for the General Studies and Library Buildings (5). Residence halls and dining complex are by Edward Larabee Barnes of New York (6). And the Married Student-Faculty housing is by Corgan & Balestiere.

Dan Kiley served as space coordinator and landscape consultant.

THE PRINCESS'S PALACE

MEHR DAST, IRAN. When Her Royal Highness, Princess Shams Pahlavi of Iran (sister of the Shah), approached Teheran architect Nezam Ameri with a commission for a new palace to combine living quarters for the royal family and facilities for state functions, the architect was not sure his office was equipped to handle the job. Being a former student of Frank Lloyd Wright at Taliesin West, it was natural for him to turn again to Taliesin, and he soon brought together the princess and Taliesin's
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Chief architect, William Wesley Peters.

Discussing the program, the princess was at first rather vague, but Peters and Ameriplex came to the conclusion that they had chanced upon a person who was as close an approximation of the ideal client as they were likely to meet. She began by telling the architects what she did not want: no copies of ancient Persian temples, no heavy domes. But if they could capture something of the spirit and character of traditional Persian structures in modern forms, that would please her. As her ideas evolved, she became convinced that, if the designers were to extract something of the essence of Persian architecture for her new palace, they would have to see the old cities, so she arranged for them a tour of southern Persia, through the ancient cities of Shiraz and Isfahan.

The result of the journey was, for Peters, the discovery that the most outstanding feature of traditional Persian building was the orientation of structures toward enclosed garden courts. And just as ancient temples, mosques, and public buildings present fortress-like walls to the outside world, turning in upon lavishly landscaped enclosures, so do Iranian villages of today cluster individual dwellings around communal garden courts. It is a tradition that goes back to the hanging gardens of Babylon.

Translating the idea into modern idiom, Peters arranged family and state rooms around either side of a circle that encloses a central garden dotted with pools (one for swimming), and fountains. On the upper level are living quarters for the princess, His Excellency, her husband (who is minister of cultural affairs), and their daughter; a large reception hall, banquet hall, kitchen, and guest quarters are also located on the upper level. Below are movie theater, recreation room, exercise room, wine room, and an additional guest room. All areas of the palace are air conditioned, both to keep them cool in the sweltering Iranian heat, and to help keep the moisture accumulation on the thousands of palace plants at a bearable level.

Is the princess satisfied with the prairie architecture version of a Persian palace? During presentation of preliminary drawings, all seemed in order until, suddenly, Her Highness burst into tears and left the room. On her return, after the architects had spent a tense 20 minutes speculating on lost time, energy, and composition, it was explained to them that she had been overcome by emotion: The palace was precisely the ideal she had dreamed of as a little girl.

Construction will begin this fall. Cost is $1 million.

WAY PAVED FOR LINEAR CITY

NEW YORK, N.Y. Approval by three Federal departments gives a green light to the formal planning of a linear city through Brooklyn. In late June, the Departments of Transportation, Housing and Urban Development, and Health, Education and Welfare agreed to put up funds for planning and engineering designs for the long-delayed and disputed linear city. In addition, the Ford Foundation will make $100,000 available for special planning and design studies.

The Lindsay administration in New York wanted to provide a traffic link between the Verrazano-Narrows bridge and Long Island. Such a link, they argued, use an existing right of way of the Bay Ridge Division of the Long Island Railway, and would eliminate need for cutting roads through more populous sections of the city. Until recently, few agreed.

Now, by adding the Cross-Brooklyn expressway and a northern branch, the Queens-Interborough Expressway, to the Interstate Highway system, all the pieces in a previously almost hopelessly confused puzzle are ready to be put in place. As part of the Interstate system, the Cross-Brooklyn Expressway and the Queens-Interborough will be financed by the Federal Government, which will put up 90% of the funds, and by the state which will give 10%. Total cost of the two new roads is expected to be about $400 million. But the city, as its administration sees it, gets an added boost, for to give the highways interstate status, the Department of Transportation took four other proposed New York expressways off the Interstate list. These would have knifed through heavily populated areas of Manhattan and Brooklyn and would have meant sweeping dislocations of families and businesses.

As in-city freeways cut through the nation's urban areas, they tear apart neighborhoods, leaving scars that take scores of years to heal. Lindsay's Linear City concept is meant to avoid the opening of long-festering wounds. As almost everyone has heard by now, Linear City will provide complete community facilities on a 6-mile strip of air rights above the Cross-Brooklyn Expressway, starting at Brooklyn College and running east. Currently, it is thought that the "city" would provide schools for 20,000 intermediate and high-school students, 6000 housing units, space for industry, a regional
shopping center, and a community college. In short, instead of ripping a community open, the expressway and the buildings above it would provide a link, a common meeting ground, for persons living on both sides of the road.

Next steps in the program are detailed studies of educational and community facilities. As P/A goes to press, no announcement has been made of who will do these studies or how long they will take. Future studies will probably follow the preliminary "plan for planning" completed early this year by the Baltimore architectural firm Rogers, Taliaferro, Kostritsky, Lamb.

OMNI-STADIUM PLANNING IN CLEVELAND

CLEVELAND, OHIO Every sport has its season and its own type of playing field. These were two of the problems faced by Charles Luckman & Associates in designing a stadium for Cleveland to hold crowds for baseball, football, basketball, hockey, and even soccer. The result is a preliminary design for a stadium that will seat 65,000 spectators grouped around a gridiron for tilts between football teams. For baseball, the two triple-decked seating tiers on either side of the oval configuration will pivot outward, pushed by a motor along ground-level tracks, to flank the baselines of a baseball field. Moreover, the stadium will have a retractable roof, which will create a more intimate 17,000-seat stadium within a stadium for big league basketball and hockey games. The Luckman office estimates the conversion from one type of stadium to another could be accomplished in 30 minutes.

Part of the problem is to decide where to put the new $26-million stadium, and what to do with the mammoth existing 73,811-seat municipal stadium located on the lakefront, if the new one is built.

The Luckman firm is in the midst of a 90-day survey on the basis of which it will decide on a site, pick a method of financing construction, and set a target date for groundbreaking. It estimates that the stadium could be built in two years.

The 1968 South Atlantic Regional Conference of the AIA will be held October 9-12 at the Marriott Motor Hotel in Atlanta, Ga. Conference program centers on the computer and its uses in finance and management... "Contradictions"—between what we want and what we need, between what we look at and what we see, between one generation and another—will be topics for discussion at the Annual Meeting of the Industrial Designers Society of America. The meeting is planned for October 10-12 at the Playboy Club Hotel, Lake Geneva, Wis. For further details, write to: ISDA, 60 W. 55 St., New York, N.Y. 10019... Experts in the fields of glass history and research will speak during the Ninth Seminar on Glass, to be held October 15-18 at the Corning Museum of Glass, Corning, N.Y. 14830... One of a series of Plastics Rapid Educational Programs offered by International Plastics Industry Consultants, Inc., will be "Plastics in Buildings: Architecture and Construction." Information on the program, which will be held at New York City's Hotel Manhattan Oct. 28-Nov. 1, is available from: International Plastics Industry Consultants, Inc., P.O. Box 1324, Long Island City, N.Y. 11101... The 16th Annual International Architectural Woodwork Institute Convention is scheduled for Oct. 30-Nov. 1 in Boston, Mass. Information on the meeting may be obtained from: Architectural Woodwork Institute, Suite A, Chesterfield House, 5055 Chesterfield Rd., Arlington, Va. 22206... Technical sessions will constitute a major portion of the program for the 1968 Fall Convention of the American Concrete Institute, Nov. 3-8 at the Sheraton-Peabody Hotel, Memphis, Tenn. Copies of the program are available from: ACI, P.O. Box 4754, Redford Station, Detroit, Mich. 48219... The Structural Clay Products Institute's Annual Convention will assemble this year at the Puerto Rico Sheraton, San Juan, P.R. Dates for the conference are November 9-13. Write for more information to C.N. Farley, SCPI, 1750 Old Meadow Rd., McLean, Va. 22204... An Interprofessional Conference on Education for Environmental
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Design will take place Nov. 11-13 at the Center for Continuing Education at the University of Notre Dame. Sponsored by the Interprofessional Commission on Environmental Design, the conference will feature discussion of the final Report on Goals of Engineering Education of the American Society for Engineering Education and the Princeton University Study of Education for Environmental Design. Additional details on program and registration may be obtained by writing: American Society of Civil Engineers, United Engineering Center, 345 E. 47th St., New York, N.Y. 10017 . . . The Annual Meeting of the Aluminum Association will take place Nov. 20-22 at the New York Hilton, New York City. Program information is available from: Aluminum Association, 420 Lexington Ave., New York, N.Y. 10017 . . . A Low-Income Housing Seminar, sponsored by the Federal Department of Housing and Urban Development with Urban America, Inc., is scheduled for Nov. 21-22 in Atlanta, Ga. Purpose of the seminar is to "explore new forms of partnership between nonprofit organizations and private enterprise" in the construction of homes for low-income families. To obtain registration forms and program details, write to: Conference Director, Urban America, Inc., 1717 Massachusetts Ave. N.W., Washington, D.C. 20036 . . . The Eighth Construction Contracts and Specifications Institute will be presented by the University of Wisconsin and Region Seven of the Construction Specifications Institute, Nov. 21-22. The institute is to be held on the University of Wisconsin's Madison campus. Requests for additional information should be directed to: Dwight D. Zeck, Institute Director, 725 Extension Bldg., 432 N. Lake St., University of Wisconsin, Madison, Wis. 53706 . . .

SCHOOLS

Paul Schweikher, head of the department of architecture at Carnegie-Mellon University for the past 11 years, has retired from that position to devote more time to teaching and to his private architectural practice. Until a successor is named, Robert H. Burdett, in his capacity as assistant head of the department, will assume administrative responsibility. The Board of Regents of the University of Washington (Seattle) has established a new Department of Building Construction in the College of Architecture and Urban Planning. The department will offer a Bachelor of Science degree in building construction, and will be headed by acting chairman George R. Hutchinson, as assistant professor. Dr. Walter H. Walters has been named acting dean of the College of Arts and Architecture at the Pennsylvania State University. Walters, who has served as associate dean since 1966 succeeds Dr. Jules Heller. Heller has accepted an appointment as dean of the faculty of fine arts at York University in Toronto, Canada . . . Auburn University this fall will offer the State of Alabama's first master's degree in city and regional planning. The new master's program will operate under a committee composed of faculty members from the fields of architecture, agricultural land use, economics, engineering, geography, political science, public administration, and sociology. Students with undergraduate degrees in any of these fields will be generally qualified to enter the new planning program . . . Washington University (St. Louis), through its Schools of Architecture and Continuing Education, will present the first in a series of architectural design seminars October 4. The seminar, open for architects and school administrators, will deal with the design of school buildings. Participants in the discussion will include Dolf Schnebli, visiting professor from Switzerland, Gyo Obata of Hellmuth, Obata & Kassabaum, and Robert E. Entzeroth. Andrew Addkison, interior designer with offices in Chicago and the San Francisco Bay area, has been appointed to the faculty of the California College of Arts and Crafts . . . Recently appointed assistant dean and associate professor continued on page 82

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of city planning in the Yale School of Art and Architecture is Louis S. DeLuea... Columbia University has appointed John D. Telfer as an assistant vice-president for physical planning... Campus planning and architecture at Western Washington State College, Bellingham, Wash., will be administered by Robert E. Aegerter, newly appointed college architect... Clifton C. Miller has been named campus architect in charge of the University of California, Irvine, department of physical planning and constructions... Donn Edwards has been appointed consulting architect to the Berkeley Campus.

BLUE CROSS BENEATH LOOKOUT MOUNTAIN

CHATTANOOGA, TENN. The Blue Cross building in Chattanooga, designed by Edwards & Portman of Atlanta, will be as light and open as a cheerleader after a winning game. Arranged around a skylighted open court that penetrates 10 stories, the building will be of structural concrete and bronze, insulating mirror glass. As in the Regency Hyatt house in Atlanta, designed by the same firm, four glass-enclosed elevators will ride through the inner court to cross-bridge lobbies at each floor office, giving access to each side of the structure.

Four large cylindrical tubes at the structure's intersecting corners will carry the mechanical air distribution system to all floors from central mechanical located in the garage level. In all, there will be about 180,000 sq ft, and on the top floor will be a lounge and cafeteria, meeting rooms, and executive offices.

PERSONALITIES

Former AIA president Charles M. Nes, Jr., has accepted reappointment to the Research and Advisory Council of the Postmaster General of the U.S. Leland King, whose architectural firm is in Atherton, Calif., has also been reappointed to the council... Alan Taniguchi, director of the University of Texas School of Architecture, has been appointed to a four-year term as a representative of the Association of Collegiate Schools of Architecture to the National Architectural Accrediting Board, effective immediately... The national AIA headquarters has named Glenn Allen White, a second-year law student at George Washington University, to the new position of Legislative Assistant and Editor of the AIA Governmental Affairs Review... John N. Richards, senior partner in the Toledo, Ohio, firm of Richards, Bauer & Moorhead, has been elected Chancellor of the College of Fellows of the AIA... Among the eight citizen members appointed recently by Secretary of the Interior Stewart L. Udall to the Board of the National Park Foundation is Mrs. Nathaniel A. Owings, whose husband is a principal in the firm of Skidmore, Owings & Merrill... The National Association of Architectural Metal Manufacturers has elected four new members to its board of directors. They are James M. Vann, William S. Birney, R. Donald Brown, and Roy W. Anderson... Carl R. Terzian, Director of Public Affairs for Charles Luckman Associates, is slated to receive an appointment to the Order of St. John from Her Majesty, the Queen of England. Investiture ceremonies will be held in October in the Cathedral of St. John the Divine, New York City... For the coming year, William R. Trautman will serve as president of the New York State Society of Professional Engineers.

Hayden P. Mims, recently retired colonel in the Air Force, has accepted an appointment as Executive Director of the National Council of Architectural Registration Boards. He succeeds James W. Rich, who now becomes Director of Professional Affairs for the council... Casey H. Mann, Jr., has been appointed assistant director in the Urban Design Center, operated by Urban America, Inc. Mann, a specialist in computer technology and systems analysis and a founder of the Washington D.C. environmental design firm 2MIQ, will work with inner-city groups engaged in planning and architectural programs and will help formulate youth programs of Urban America. William H. Dempsey has been appointed to the position of Director of Development forums at Urban America. He will be the principal staff contact for private firms seeking involvement in urban problems... The Prestressed Concrete Institute has named Robert C. Eaman its Publications Director. W. Burr Bennett, Jr., has been appointed Executive Director for the PCI.

NORSE ART CENTER OPENS

HOVIKODDEN, BAERUM, NORWAY. The Sonja Henie-Niels Onstad Art Center opened here in late August with a two-day round of parties. Norwegian royalty was there, Hollywood society was there, and, of course, so was Miss Henie, Olympic skating star and, of course, so was Miss Henie, Olympic skating star... Carl R. Terzian, Director of Public Affairs for Charles Luckman Associates, is slated to receive an appointment to the Order of St. John from Her Majesty, the Queen of England. Investiture ceremonies will be held in October in the Cathedral of St. John the Divine, New York City... For the coming year, William R. Trautman will serve as president of the New York State Society of Professional Engineers.

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hibition of Matisse touched off a critical field day for reviewers of art and architecture as well as for connoisseurs of Impressionism. Critics who hold that the business of museum architecture is to remain anonymous found the architecture of the Hayward, both inside and outside, far too obtrusive to make a satisfactory gallery. Others were disturbed by the contrast between the airy, space-demanding paintings of Matisse and the bold, heavy forms of the building’s display areas. But, according to some observers, the public does not seem to object to architectural intrusions such as prominent stripes of recessed ceiling lights, exposed air-conditioning ducts, massive staircases, and numerous curves and bulges that depart from the rectangular form of most recent museum design.

While critics saw what was happening inside the building as a sort of primal clash between art and architecture (one said the opening exhibit was a horse race, and that, from where he sat, it looked as though the gallery’s architect was a nose in front of Henri Matisse) the public found more to criticize about the building’s exterior design. With its powerful masses and confusing number of ramps and stairs, the Hayward simply does not fit most people’s idea of a building, much less a museum.

Like the Queen Elizabeth Hall and Purcell Room to the north (see pp. 132-135, December 1967 P/A), the Hayward is of gray board-formed concrete, with bronze-anodized, rough-cast aluminum framing for window and doors. Like both its predecessors in the South Banks Center, it was designed by the architects of the Greater London Council, headed by Hubert Bennett. As P/A noted last December, the group’s later designs are a far cry from the dull heaviness of their Royal Festival Hall, and one can only await the completion of the theater and opera for further developments in Brutalism on the Thames.

THE BUILDING IS (FOR) ART

LONDON, ENGLAND. A complicated mass of Brutalist forms, London’s Hayward Art Gallery is the third major structure in the South Banks Art Center, which has been rising piece by piece along the Thames since 1962. The Hayward is also the only building in the center to cater to patrons of the visual arts: Royal Festival Hall and the Queen Elizabeth Hall and Purcell Room, opened in 1965 and 1967 respectively, are devoted primarily to performances of orchestral and chamber music; later additions will house the National Theater and National Opera House.

The opening of the Hayward this summer with an exhibition of Matisse touched off a critical field day for reviewers of art and architecture as well as for connoisseurs of Impressionism.

HUD PLANTS A SWINGING X

WASHINGTON, D.C. When Marcel Breuer’s $26-million building for the Department of Housing and Urban Development was dedicated last month, 5000 Federal employees were already at work in it. Associated with Breuer on the design were Nolen-Swinburne & Associates of Philadelphia.

The 10-story structure is distinctive for its exposed aggregate precast window panels, each approximately 12’ high, 10’ wide, and 3’ deep, which slope sharply inward behind the mullions; each weighs 12 tons. The window walls are supported on cast-in-place concrete “trees” that raise the entire building 19’ above grade, leaving open promenade space beneath it.

As it should, HUD is offering a welcome example of an office building that departs from the massive, oppressive Federal Government stereotype.
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RUSSIA WAVES THE FLAG AT OSAKA

Russia plans to spend $7 million here in constructing its pavilion for Expo 70. Although the cost is relatively low, the pavilion will be the largest non-Japanese structure at the fair. It curves around a 330'-high pole; the entire structure is meant to emulate an unfurling Russian flag. To help the image, the front of the building will be painted red, the back, white. A truss dome of H-beams and steel pipes will help keep the interior space open for exhibits. Just what will go inside is not yet certain. But there will be an 800-seat theater and a 600-seat auditorium.

SCHOOL REFLECTS ON POOL

Preliminary designs show a two-story building of sandblasted concrete at the head of the reflecting pool, catty-corner from the Mother Church. In its 30,000 sq ft, the Sunday school will have an auditorium capable of seating 1200, including 400 permanent seats in an overhanging balcony. Far from cluttering the site, the school, which presents a curved, stepped-out facade to the pool, adds to its balance. Completion is expected in about three years. Araldo A. Cossutta is partner in charge.

FROM ARMORY TO SCHOOLHOUSE

Squadron A of the New York National Guard moved into a new Armory in Manhattan between 94th and 95th Streets and Park and Madison Avenues. It was a handsome, fortress-like structure, and, like the other Manhattan armories, it became a haven for New Yorkers in times of emergency. It was also the scene of scrappy weekly indoor polo matches. Last year, it started coming down to make way for a school.

Originally, the site was slated for use by both a school and some low- or middle-income housing. Since it was thought, however, that zoning in the area would not permit enough housing to pay for itself, the Board of Educat
This ceiling stays up where others won't. It's called Ceramaguard. It'll stay up despite conditions usually found in factories, processing plants, shops. Despite constant moisture, extreme heat or cold, corrosive atmosphere, and regular cleaning. Because it's the first acoustical lay-in ceiling of a special ceramic material. But there's more to Ceramaguard than permanence. Because it's there, heating and lighting are more efficient. And everything under it is kept cleaner. Because it's there, people have a place to work that's brighter, quieter, more pleasant. Ceramaguard and other ceiling innovations are described in our folio. Please write for a copy. Armstrong, 4210 Watson St., Lancaster, Pa. 17604.

Or on Readers' Service Card circle No. 300.
be divided in three sections: a large central open space, and, at either end of this, an intermediate space that can be divided by means of a folding partition. The central space can be used as a classroom by several classes at the same time, the way the schoolroom was in the old country schools. Or it can be divided either by movable partitions or by furniture groupings. Evidently, there is some indication that both students and teachers like the open arrangement, with several classes working separately in the same space. And the city hopes it can find out more about why they like it and how it can be used most effectively.

**SUPER-BAYS FOR SUPER JETS**

NEW YORK, N.Y. Handling airline traffic in the 1970's will not merely be a problem of too many planes trying to get onto the ground, but also one of planes too big for conventional hangars once they manage to land. American Airlines is one carrier that has given some thought to the latter difficulty, and has consumed a considerable amount of computer time in its attempt to meet the need before a crisis develops.

Recently, American announced development of a modular maintenance hangar that will serve as a prototype for future construction at airports in New York, Boston, Newark, Chicago, Los Angeles, San Francisco, and the planned supersonic airport between Dallas and Fort Worth.

The new "super-bay" hangar is a modular structure, each module measuring 550' x 450' with a floor area covering about the same space as seven football fields. The hangar will be the equivalent of five stories high. The roof, constructed of prefabricated elements of sheet steel and cable, eliminates the need for cantilever trusses and roof purlins. It is an integral part of the structure, not just a cover over the building.

Inside the hangar, modular substructures containing the various workshops and equipment necessary for engine maintenance and repair are suspended from the roof to provide a maximum amount of unobstructed floor space. The versatility of the modular structure will allow the hangar to serve any of the planes in the carrier's fleet, including its two subsonic jumbo jets—

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**AMERICAN AIRLINES**

**CONCOURSE PLAN**

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**October 1968**
WASHINGTON/ FINANCIAL NEWS

by E. E. HALMOS JR.

As an Era Ends — With political attention shifted to national hustings, Washington dropped into its every-four-years legislative doldrums very quickly, even though Congress reluctantly returned to work in September to clean up a few remaining matters.

On the executive level, there were still some stirrings:

There was still no firm guide to where and how much real spending cuts would be initiated, to comply with Presidential economy pledges.

Many long-time appointive officials were leaving their posts for steadier jobs elsewhere.

Another round of planning was underway, though the Administration (and civil rights groups) objected vehemently, under Congressional orders to get Washington’s highway program moving.

The Department of Housing and Urban Development, virtually the only department to get a go-ahead for a really big new program, was pushing its planning to implement the newly authorized housing program (see p. 58, Sept. 1968 P/A), hoping to have planning completed before a new administration takes over.

There was still a bill in Congress (though it seemed to have no chance for passage) to change the title of “Architect of the Capitol” to “Superintendent of the Capitol” (HR 19127) Buildings and Grounds,” thus ending confusion that has been compounded by the present title, which is, of course, a total misnomer.

The D.C. Architectural Scene — On a local level, however, there were matters of interest:

A series of meetings were scheduled, in November, to discuss subjects of interest to architects and the construction industry.

These included three days of meetings, in late September, sponsored by the National Bureau of Standards, on “Man and His Shelter” (a discussion of the performance of buildings); a session October 14-16 of the International Council for Building Research, Studies and Documentation (CIB); a two-day seminar on winter construction, set by the Associated General Contractors, November 7-8; and a two-day meeting, October 30-31, under the aegis of the National Academy of Engineering, to consider ways in which engineering and architecture can help solve problems of medical research and improve delivery of medical services to patients.

On an even more local level, the battle over the shape of a “new town” within Washington, which was proposed months ago by President Johnson for the now-abandoned 335-acre site of the National Training School for Boys, continued literally.

In mid-August, Benjamin J. Levy, special consultant to the National Capital Planning Commission, presented a plan for the $175-million development that called for housing for 15,000 persons on the site, an internal rail system of transportation, schools to be separate from the city’s system. Key to the plan is a proposal that would set aside only about 20% of the housing for low-income families, in the hope of attracting enough white residents to achieve racial balance (not an easy thing in Washington, which is now nearly 70% Negro).

This program brought immediate protests from a “Citizens Advisory Group for Fort Lincoln,” which protested that local citizens had not been adequately consulted, that not enough low-income housing is provided, and other things. The group said it would instruct attorneys to file suit to stop the whole project. As of the end of August, however, no such action had been taken.

Also on the local level, New York architect I.M. Pei, with funds of $20 million provided by the Mellon family, took on the difficult task of designing a new addition to the “Mellon Gallery” (the National Gallery of Art), facing the Mall between the Capitol and the Washington Monument. Attempts to blend any addition with the Greek-style temple completed in 1941 by John Russell Pope are guaranteed to raise all sorts of criticism before it is done.

Race and Architecture — The AIA plunged into the problem of racial equality with a meeting at its Octagon headquarters of a first member “Inter-racial Task Force” to study means of bringing more Negroes into architecture. Under the chairmanship of new AIA President George E. Kassabaum, the group discussed current status and opportunities for Negroes in architecture, education, recruitment, and other aspects of the problem. Their hope is to come up with a program that can be adopted by individual chapters.

The construction industry was also watching with interest as the Labor Department’s Office of Federal Contract Compliance finally released some $6,500,000 in Federal funds to permit resumption of contract work on International House, a Philadelphia project, after the contractor, McCloskey & Co., agreed that it would fill at least 108 of its 295 jobs with minority-group workers; give 17 additional minority people some of the 74 “critical trade” jobs on the work. OFCC has vehemently argued that it is not “playing a numbers game” with minority-group hirings, but it also started to release funds for more than $80 million in projects in the Philadelphia area, on the premise that, of some 400 jobs to be filled, at least 100 will go to nonwhites.

Metric System Moves a Millimeter Closer — There was a final note on the news from Washington:

To nearly everyone’s surprise, Congress passed, and the President signed, a bill (PL 90-472) that directs the Commerce Department to look into the metric system.

Nothing much is expected of the study for a while; Congress didn't appropriate any money for the study, told Commerce to take funds from existing appropriations.

The bill is a very mild sop to ardent metric system advocates: It directs Commerce to investigate the impact on the U.S. economy of increasing world use of the metric system; look into the feasibility of increasing its use in the U.S.; come up with some cost figures and plans for increasing use of the system in this country. Three years are allowed for completion of the task, which will probably be carried out by the National Bureau of Standards.

Financial — Over-all construction dollar-volume continued a slow decline through June, though it stayed above figures for a year ago, according to the Census Bureau. Volume in June was at an adjusted annual rate of $81,300,000,000, compared to $83,600,000,000 in May.

Housing construction, however, took a sudden jump upward, moving to an adjusted annual rate of 1,539,000 units in July, up from 1,349,000 in June, 1,313,000 in May. Housing experts were inclined to credit the new Federal surtax bill for the improvement, pointing out that, just prior to passage of the legislation, "points" charged on FHA mortgages averaged about 7, nationwide; within about six weeks, they had dropped to about 3.

Homeowners were spending a little less on maintenance and repair last year than in 1966 (about $4,700,000,000 compared to $4,800,000,000), but more on improvements to their properties ($71,000,000,000 as against $59,000,000,000), according to Government surveys. Biggest spenders: owners of single-family homes.

Construction machinery manufacturers shipped slightly less equipment in the first quarter of 1968 than they did a year ago. Total value of shipments in 1968 was set at $308,800,000,000 in May.

October 1968
P/A News Report 91
Rough-in through the wall.

The Orlando floor-mounted, back-outlet closet fits flush with floor and wall.

The new Nile tub, cast iron with acid-resisting enamel, has a raised outlet that permits installation of a horizontal waste drain from bath to wall.

The Sarasota tub, formed steel with acid-resisting enamel, features a raised outlet that permits waste line to be installed through the wall.

Eljer shows the way.

With the addition of the new Nile tub, Eljer now offers you the most complete line of fixtures that rough-in through the wall. Only Eljer has these bathtubs of both cast iron and formed steel.

And there’s more. More freedom of design for you and more savings for your client when you specify these Eljer fixtures for slab or reinforced concrete construction. Since all of the plumbing goes into the wall, there’s no wasted area between floors.

For more about these compatible-with-slab-construction fixtures, call your Eljer representative. Or write Eljer, Dept. PAB, P.O. Box 836, Pittsburgh, Pa. 15230.

Eljer Plumbingware Division / Wallace-Murray Corporation
PRODUCTS

ACOUSTICS
Noisless panels. "Spanish Stucco" acoustical ceiling panels may be supported by any standard grid system; existing ceilings need not be leveled. Primarily designed for residential or light commercial installations, the acoustically engineered 2' x 4' panels are said to absorb 60% of the noise striking their surface, because of a textured vinyl facing and Fiberglas backing. Complementary lighting fixtures available; also adaptable vinyl clad wood grain beams. Owens-Corning Fiberglas Corp., Toledo, Ohio 43601.

CONSTRUCTION
Structural glass. Krinklglass is described by its manufacturer as an "acrylic modified polyester glass fiber-reinforced structural plastic." Even at less than half the weight of ordinary glass, it is said to be six times as strong, and offers new freedom in design and construction wherever glass is required. Its texture is multi-faceted, and it may be transparent, translucent, or opaque. Some uses listed are windows, partitions, skylights, and may be cut, drilled or shaped with regular carpentry tools. Krinklglass is processed in over 54 colors and 21 multi-hued combinations. Dimensional Plastics Corp., 1065 E. Lyndon Ave., Detroit, Mich. 48238.

Frame forming. Forms that can support themselves are said to be made possible by this Triodetic system, composed of a web of tubes and hubs. The system claims to allow more structural freedom in dome and vault design. Butler Manufacturing Co., 7400 E. 13th St., Kansas City, Mo. 64126.

DOORS/WINDOWS
Shedding some light. Accord-A-Pleat window coverings provide flexible light control, since they are not permanently affixed to top of window; side channel guides permit adjustment from the top down and from the bottom up. Made of dacron, they come in a host of colors. International Building Products Inc., 8043 Lyndon Ave., Detroit, Mich. 48238.

Replacement window. Designed to solve the replacement problems of rehabilitation contractors, the manufacturer created an aluminum window that may be factory sized to fit any opening, within 1/4". The window is said to be easily installed; balance system allows free sash movement; a thermal setting acrylic finish eliminates maintenance. Air Master Corp., 8501 Hagerman St., Philadelphia, Pa. 19136.

FINISHES
Thermoplastic glazing. Breakage-resistance, transparency, and rigidity are only a few of the qualities attributed to LEXAN, a polycarbonate resin. It is said to surpass all other engineering thermoplastics in impact strength, heat resistance under load, dimensional stability, low temperature strength, and versatility of fabrication. Although approximately four times as expensive as glass, LEXAN is said to pay for itself in replacement savings, especially in school, industrial, or high vandalism rate areas. It may be easily formed into complex shapes by standard thermo-forming processes. Various grades, colors, and faces are available. General Electric, Plastics Dept., One Plastics Ave., Pittsfield, Mass. 01201.

Electrical equipment
Window movements. James Fulton designed this series of kinetic window-coverings; the mechanized Visu-Walls operate electrically to create patterns from moving opaque and transparent panels. In one arrangement, called Color Shutters, the overlapping panels act in the same way as a camera lens, moving toward the center from top, bottom, and both sides. The opening at the center admits light. Attached to a photovoltaic cell, the systems could automatically adjust the window coverings to changes in daylight. Owens-Corning Fiberglas, Home and Fashion Bureau, Toledo, Ohio 43601.

Exposed steel dons a coating. Designed specifically for steel or similar metallic surfaces — either interior or exterior — this chemical-resistant specialty coating, "Nyocoon," has an extremely hard, durable, but flexible surface that is said to neither craze nor chip. "Orange peel" surface texture diffuses reflected light. Coating will not support combustion. May be applied over masonry backings. Desco International Association, P.O. Box 74, Buffalo, N.Y.

Floors
Wood-plastic composite floor. Gammmapar parquet flooring is said to be the first wood floor product able to outwear epoxy terazzo and compete with heavy-duty plastics in the field. This durability is the result of an irradiation process producing a solid wood-plastic composite. Air is first evacuated from the wood; a liquid monomer is then introduced into the pores. The combination is subjected to intense gamma radiation, thus solidifying the monomer within the cell structure. Gammmapar is said not to require surface finishing; it is easily cleaned, and as it wears, its built-in finish remains. The flooring is produced in 8 standard colors of oak and maple; also walnut. Supplementary products such as stair treads, risers, transition strips and moldings are available. Distributed by the Harris Flooring Co., 39 Powerhouse...
Textured geometry. Parthenon, from Boris Kroll's new Odyssey collection, is a Jacquard weave in a blend of viscose and nylon. Its strength for commercial applications is concealed by a working of 11 colors in reversed values, which update and add warmth to the traditional plaid. Also included in this collection are a host of printed fabrics that simulate, on a larger scale, ancient tie-dye methods. Boris Kroll Fabrics, 979 Third Ave., New York, N.Y. 10022.

Exposed oak series. Featured in a series of lounge seating units and tables, these white oak occasional tables may be grouped or arranged separately. Informality is emphasized by their rugged structural appearance. Harter Corp., 100 Prairie Ave., Sturgis, Mich. 49091.

Blow-up. Fantastic, versatile, inflatable furniture for the experimenters and budget-minded. Available in red, yellow and crystal, the robot chair inflates in twelve minutes and holds 20,000 cu in. of air. Made of sturdy, transparent polyvinyl-chloride, each chair is equipped with a foot pump. Uses are limited only by the imagination. Selig Mfg. Co., Leominster, Mass.

Electronic desk. The “V.I.P.” desk contains a console housing a UHF/VHF television receiver, AM/FM radio, clock, lamp, AC outlet, 2-station remote TV camera control, portable AC/DC tape recorder, phone index, digital calendar, memo compartment and a pen-pencil set. Desk dimensions: 74” wide, 36” deep. Walnut veneers and a protective plastic surface are standard. Finish for the legs may be black or chrome. Interstate Industries, Inc., 7-103 Merchandise Mart, Chicago, Ill.

Saddle chair. Executed in walnut and leather with strap supported slings for adjustment, the traditional old western elements of this chair are made contemporary by the addition of foam rubber and down filling in its seat, arms and back. Both seat and back have the additional support of a webbed rubber platform. Henry Conversano & Assoc., 577 Fifth St., Oakland, Calif. 94607.

Accessory stool. A choice of heights (17” or 22”) adds versatility to stools with pol-

Conference in comfort. Soft and contemporary, the swivel-desk and conference chair may have open or closed arms. A host of fabric finishes are available, as are vinyl and leather coverings. Choice of chrome or bronze plated base. Directional Contract Furniture Corp., 979 Third Ave., New York, N.Y. 10022.

Pop lampost. A super-scaled version of an old street light has a white steel stem, and a fake light bulb serves as a globe to the real bulb inside. Height 73”. Raymor Products, 225 Fifth Ave., New York, N.Y. 10010.

Bauhaus tradition. Chair from the ‘Kill’ collection is of custom extruded bar steel with a matte chrome finish. The seat and back are covered with Portuguese aniline glove leather thongs. Harvey Probber, Inc., 979 Third Ave., New York, N.Y. 10022.

Casement fabric. Able to diffuse light and control glare, Trevira is an acrylic fabric said to have neither warp nor weft; it is braided both horizontally and vertically to resist raveling and wrinkling. Weights woven into the fabric are said to eliminate hemming and width-to-width sewing. The physical properties of Trevira are claimed to be similar to those of Acrilan.

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Accessory stool. A choice of heights (17” or 22”) adds versatility to stools with pol-
AMWELD'S NEW
SUPER CORE DOOR

MAKES YOU FORGET EVERYTHING YOU EVER KNEW ABOUT CORE DOORS!

Amweld announces a major breakthrough in the design and production of a new line of seamless and full-flush core doors for commercial and institutional construction, featuring built-in qualities never before offered as a standard, stocked product.

SUPERIOR CORE - a pre-cured, expanded foam core, rated as self-extinguishing, and resistant to vermin, moisture, mildew and rot; produces a quiet, trouble-free door.

SUPERIOR BONDING - core is immovably bonded to steel face panels with a new structural thermosetting adhesive, guarantees a solid, rigid unit.

SUPERIOR FLATNESS - assured by core construction and projection-welding of flat, cold rolled steel panels; provides a door with a smooth, attractive appearance.

SUPERIOR LOW HEAT TRANSMISSION - core tested to a standard K Factor of .24 at 70 degrees mean temperature.

SUPERIOR SOUND RETARDATION - core has a minimum STC rating of 32 decibels.

Then, add enclosed top and bottom—outstanding hardware flexibility—a wide variety of standard sizes—and an excellent selection of standard designs (which can be easily and accurately modified to your specification by your local Amweld distributor).

Amweld’s Super-Core Door is not just a core door. It’s the industry’s first superior core door. Call your local Amweld distributor for complete details. Or write us direct.
ish base and legs. Multipurpose stool is covered with a Naugahyde-foam-rubber cushion, in black or white. Habitat Inc., 341 E. 62nd St., New York, N.Y. 10021.

Circle 121, Readers’ Service Card

LIGHTING

Midnight sun. Radiant BT & R mercury vapor lamps are said to last up to 24,000 hrs. A special glass envelope makes them weatherproof, while a nickel-plated base resists corrosion. Lamps have a prorated warranty to 9000 hrs. In addition to clear, color improved, and silver white lamps, a deluxe white lamp boasts improved color balance, for wherever natural color rendering is important. Radiant Lamp Corp., Bank St., Hightstown, N.J. 08520.

Circle 122, Readers’ Service Card

Total incandescence. The first luminous ceiling system designed specifically for glass diffusers, the Contoura system consists of a suspended T-bar grid that supports a glass light-diffusing panel. Each 2' x 2' module has a die cast aluminum frame, which holds a glass light-diffusing panel. Frames are painted in bone-white baked enamel, but may be edge-buffed natural aluminum, electroplated bronze, or painted to match designer’s sample. System is said to be compatible with linear air bar, perimeter, and plenum air distribution systems. Integrated Ceilings Inc., 2231 Colby Ave., Los Angeles, Calif. 90064.

Circle 123, Readers’ Service Card

Tying light in knots. There is literally no end to the lighting possibilities offered in Crofon light guides, DuPont-developed plastic fibers that carry light from one point to another, even around corners. The ‘fiber optic’ principle is that “light travels in a zig-zag path through the transparent core of each fiber by internal reflections from the sheathing medium.” The amount of transmitted light depends upon the intensity of the light source, and the length and number of fibers per bundle (16, 32, 48 or 64). Applications include: sensing and signalling devices, decorations, communications equipment, signs, displays, business machines, games and novelties. Edmund Scientific Co., Edscorp Bldg., Barrington, N.J. 08007.

Circle 124, Readers’ Service Card

OFFICE EQUIPMENT

A whiteprint blueprint machine. The big difference in the Mark II is said to be its utilization of ammonia vapor rather than liquid ammonia; an optional pump system is further said to nearly eliminate ammonia handling, and the use of vapor instead of liquid prevents spills and damage to other parts of the machine. The manufacturer claims that the Mark II gives 100% faster printing speeds; it will make prints up to 42" wide by any length for 1/4¢/sq ft. Rotolite Sales Corp., Stirling, N.J. 07980.

Circle 125, Readers’ Service Card

SANITATION PLUMBING

Pneumatic refuse system. Vacuum collection system is said to eliminate hygienic problems; negative air pressure in chutes and tubes keep air from blowing out of disposal hatches, and discharged air is filtered before leaving the system. Refuse placed in chutes is gravity-carried to a retention section, from which it is sucked horizontally to a central hopper. A dual system—one for soiled linen, the other for refuse—may be installed in hospitals or hotels. Environmental Systems Div., Aerogel General Corp., 9200 E. Flair Dr., El Monte, Calif. 91734.

Circle 126, Readers’ Service Card

Flush valves. “Guildmark” colored flush valves for water closets and urinals may be specified in polished or brushed chrome or brass, and come in 5 colors. Watrous Inc., 216 S. Evergreen, Bensenville, Ill. 60106.

Circle 127, Readers’ Service Card

Minaret pattern tile. A vinyl-asbestos floor tile, called Casablanca, is claimed by the manufacturer to offer many pattern possibilities — its self-contained design, properly installed, is said to have a seamless appearance. The Eastern design influence is also apparent in the six available colors. Tiles are 12" x 12", in standard gage thickness. The polyvinyl tile surface is said to be nonporous, unfilled, and, therefore, grease-resistant. GAF Corp., Floor Products Div., 140 W. 51st St., New York, N.Y. 10020.

Circle 133, Readers’ Service Card

October 1968

able to conventional paper laminate, but with a higher abrasion resistance. It is also said to be stain- and heat-resistant. Genuwood offers the warmth of real wood (teak, American walnut, Oriental-wood, English oak, Zebrawood), protected by a high pressure Melamine overlay. Suited for furniture, cabinetry, millwork interiors, it is supplied in panels 48" x 96", approx. ½" thick. Parkwood Laminates, Inc., 134 Water St., Wakefield, Mass. 01880.

Circle 129, Readers’ Service Card

Glass “blackboard.” White “Nucite” glassboard is ¼" thick, shock-resistant glass with a vitreous enamel surface that you can write on with colored chalks or water color markers. Available in seven colors, Nucite chalkboards can double as projection screens. Material is guaranteed to last, without fading, as long as the building. PPG Industries, 1 Gateway Center, Pittsburgh, Pa. 15222.

Circle 130, Readers’ Service Card

Genuwood is a wood veneer laminate, NEMA tested to be compar-
A “far out” resort concept calls for LP-gas

Whether it’s “far out” in terms of design or actual location, LP-gas is the ideal, all-around, modern fuel.

That’s because LP-gas goes anywhere—does everything. From heating rooms, water and swimming pools to cooking food, drying clothes...even running generators for electrical power. Call it butane, propane, bottle gas or whatever, LP-gas is the "self-sufficient" fuel. It goes beyond the reach of the natural gas pipeline. And gas makes the big difference. Safe. Clean. Economical.

So, look into LP-gas today. The fuel designed for the “far out” concept. Of America’s great sources of energy, only LP-gas serves you in so many ways.

NATIONAL LP-GAS MARKET DEVELOPMENT COUNCIL, Chicago, Illinois 60603
For LP-gas data, see Sweet’s Architectural File 29a/Na.
On Readers’ Service Card, Circle No. 393
Vogel-Peterson RDF's help School Planners keep an “OPEN” mind

One moment they’re handsome wardrobe racks, chalkboards or tackboards... a few seconds later they’ve converted an open plan school room into efficiently arranged classrooms to accommodate any size class or teaching requirement! Trust Vogel-Peterson to bring you the room-making magic of dual purpose RDF (Schooline Room Divider Wardrobes)... 6 or 8 feet long sections that move silently and effortlessly on large rubber-tired casters... sturdily made, beautifully detailed and finished in colors that complement the most modern decor. Have them in any combination you wish—tackboard both sides, chalkboard both sides, or tackboard/chalkboard combination or tackboard side can be accessorized with wardrobe racks and book or boot shelves. School planners welcome their versatility... teachers like their efficiency and kids can’t hurt them. Look into these versatile units—they’re designed with you in mind.

The RDF’s are just one of a most complete line of coat racks and wardrobes designed to meet today’s changing needs. Write for our complete catalog 91-510.

Vogel-Peterson COMPANY
"The Coat Rack People"
ELMHURST, ILLINOIS
**MFRS' DATA**

**ACOUSTICS**


Circle 200, Readers' Service Card


Circle 203, Readers' Service Card

Environmental shielding system. A total environment may be custom created by manufacturer, to shield sensitive work areas in hospitals, research and radiology labs, or any area in which it is imperative to block radio frequency, nuclear and X-ray interference from electronic instrumentation. Technical consulting service offered. Contains data for all components of the system. Catalog. 11 pages; also introductory background sheets. Ray Proof Corp., 50 Koeler Ave., Norwalk, Conn. 06856.

Circle 204, Readers' Service Card

**CONSTRUCTION**

Self-supporting beam system. Spanmaster relocatable support beam system for folding partitions is said to adapt to existing spaces or to new construction. Permanent, self-supporting side columns and overhead panel are claimed to offer necessary flexibility to modular buildings. Details, dimensions, sample plan. Brochure. 8 pages. Modernfold, New Castle Products, Inc., Box 310, New Castle, Ind. 47362.

Circle 201, Readers' Service Card

Nosing stairs. Decorative functional stair nosings are produced in three models. "Allite" tread can be filled with eight colors of rubber or two colors of Carborundum; "Alfab" nosings are filled with compressed cork also available in eight colors. These two models, which have been widely used in the British market since 1937, are supplemented by "Alpet," which is filled with wool Wilton carpet available in 13 colors. All frames are of extruded aluminum. Other products available include Carborundum vitreous tiles. 8 pages. AAA Stair Nosing Co., Box 328, Lowell, Mass., 01853.

Circle 202, Readers' Service Card

**FINISHES**

Concrete consideration. ChemComp cement expands in concrete, and the expansion is restrained by the reinforcing steel, thus putting mild tension on the steel and compression on the concrete. This action compensates for the drying shrinkage of regular cement. Data sheets; technical data, chemical and physical requirements, design considerations and recommended uses. Data sheet. Chemically Prestressed Concrete Corp., 14656 Oxnard St., Van Nuys, Calif. 91401.

Circle 206, Readers' Service Card

Brassy shapes. Standard drawn and extruded shapes in brass and copper are shown in section and thoroughly described. Dimensional data of angles, channels, "T" sections, "Z" sections, rectangular rods, tubes, and other structural shapes are placed in quick-reference tables. Brochure. 26 pages. Anaconda American Brass Co., Waterbury, Conn. 06720.

Circle 207, Readers' Service Card

Horizontal reinforcement. Truss designed Dur-O-wal for masonry mortar joints meets ASTM standards and Federal requirements. Contained in the report are uses and limitations for this type of reinforced joint, performance data, installation diagram. 4 pages. Dur-O-wal National, Inc., P.O. Box 368, Cedar Rapids, Iowa 52406.

Circle 208, Readers' Service Card

**DOORS/WINDOWS**

Structured wood. Lock-Deck decking is said to be capable of clear spans up to 20', for use in roof structures, ceilings, and walls. System features fir decking and white pine soldier beams; also an Electro-Lam laminated beam, claimed to be stronger over specific spans than steel joists of identical depths. Complete data for size, grade, texture, finish, strength; pattern and thickness details; load and conversion charts; specs. Brochure. 10 pages. Potlatch Forests, Inc., Wood Products Div., P.O. Box 3591, San Francisco, Calif. 94119.

Circle 205, Readers' Service Card

**FINISHERS PROTECTORS**

Long-term coverage. Five Chemstop waterproofing and waterproofing stain products are manufactured specifically for masonry and wood. A single application of the colorless (or stain) formulation is said to penetrate the surface of the treated material, thus protecting it from within. Spec guide, coverage tables, and application instructions given for each product. Brochure. 8 pages. Chemstop Mfg. Corp., 2928 Empire Ave., Burbank, Calif. 91504.

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Armored velvet is actually a nylon pile finish electrostatically injected into an epoxy resin adhesive. Manufacturer claims it may be applied to any surface to which paint will also adhere. Velvetex is said to have a density of up to 300,000 fibers/sq in. Applications include walls, floors, even cars; it may be applied on the job site, or to factory components, and is also available in 8" x 22", and 4" x 8' sheets. Contains application instructions; properties; results of flame spread, stain resistance, abrasion, fade, and sound absorption tests. Fold: 7 fact sheets, brochure, 29 color samples. Velvetex Industrial Corp., 24151 Telegraph Rd., P.O. Box 412, Southfield, Mich. 48075.

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samples, combustion qualities, floor plan ideas. Catalog. 64 pages. Fixtures Mfg. Corp. 1642 Crystal, Kansas City, Mo. 64126.

Sun control draperies. Fenestration fabrics in a diversity of weaves, textures, and hues are manufactured of glass fiber, or combinations of verel, linen, rayon, and flax. Physical characteristics; sun control data for each fabric, including visual and solar optical properties; sample cards contain width, count, content and weight information. Manual: 18 data/sample cards. Thortrel Fireproof Fabrics Inc., 51 Madison Ave., New York, N.Y. 10010.

Foamed-board insulation. Dylite boards are fabricated of expandable polystyrene, in a variety of widths, lengths and thicknesses, for use as thermal insulaton in plaster, dry wall, perimeter, and cavity wall installations. Dylite has also been used as a core for precast concrete panels, and as a mold to cast decorative panels. Diagrams and calculation charts for optimum thickness as thermal insulation, also: engineering data; flammability graph; thermal conductivity figures; specs. Sinclair-Koppers Co., Koppers Building, Pittsburgh, Pa. 15219.

Lighting source book. George Kovacks and Joe Colombo designs for lighting fixtures are unpretentious, functional, and highly illuminating. Photos, dimensions, color options, bulb requirements, for standard, table, wall-mounted.
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supplier offers construction information kits for do-it-yourselfers. Index to over 800 items, all guaranteed. Catalog, 147 pages. Edmund scientific Co., 101 E. Gloucester Pike, Barrington, N.J. 08007.

Raised lettering. Lettering styles for signs and plaques are shown (with dimensional data) in catalog. Engravings, caducei, crosses, and vertical posts (indicating reserved parking) complete the listing.

Scientific supplies. Originally compiled for the gadgeteer, this surplus supplier's catalog has grown to include optical, electrical, clock, photographic, and telescopic instruments.

12 pages. Seaboard Sign and Display Co., Inc., Hook Creek Blvd. & 145 Ave., Valley Stream, N.Y. 11581.

Plants "planters" of various sizes and shapes are the subject of booklet. Some of the thinking in the text is slanted in the "how-to-do-it" vein that posts formulas for design, but the planters' designs are less homey. Also included: landscape pools with pumps for recirculation of water. Slat...
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Fiberglass flagpoles. "Futura" flagpoles use fiberglass construction, which is claimed to cost less than comparable aluminum poles. The one-piece flagpoles are tapered at 1" per 12'. Sizes: 25' to 35' with three-coat white acrylic finish; other sizes and colors may be specially ordered. Annin & Co., Verona, N.J. 07044. Circle 236, Readers' Service Card


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Technically-oriented presentations will deal with economical approaches to multistory housing construction; a guide to the properties, applications, and costs of seamless plastic flooring; an imaginative sealing technique for the roof of the new Olympic Sports Palace in Mexico City; and the design of a concrete footbridge in California that uses structural ingenuity to produce a sculptural result.

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