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OFFICIAL PUBLICATION MINNESOTA SOCIETY OF ARCHITECTS

NORTHWEST ARCHITECT

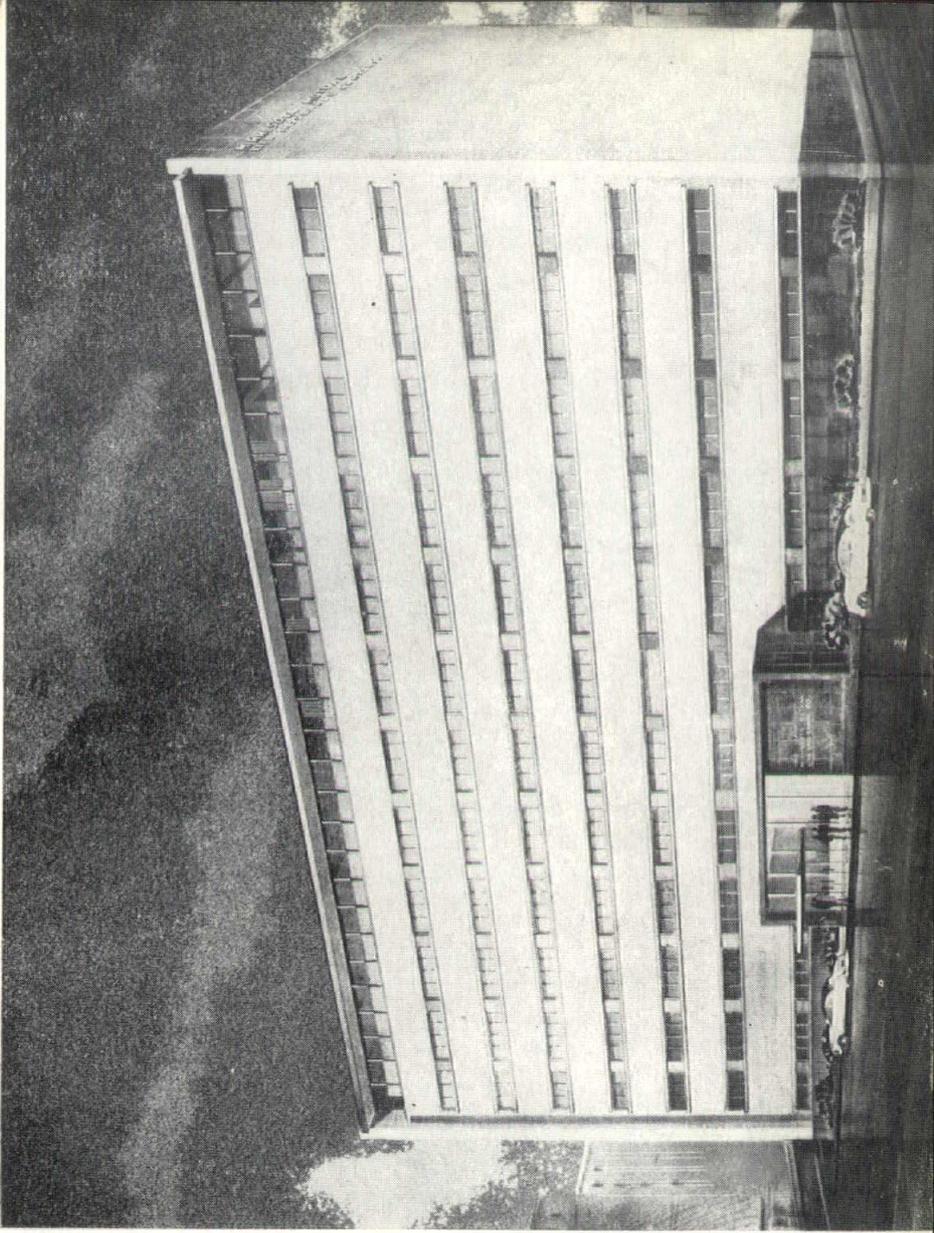
MAY-JUNE, 1954

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VOLUME XVIII
 NUMBER THREE

The New Minnesota Mutual Life
 Insurance Company Building
 By Ellerbe & Company, see page 26





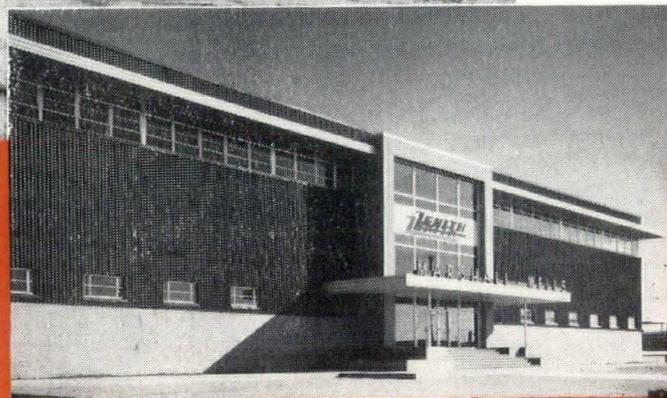
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NORTHWEST ARCHITECT

VACATION . . .

what's in it for you?

Your vacation, like your life itself, is pretty much what you make it. It can be a couple of weeks' loafing and soaking up sunshine and relaxation with a fishing rod in your hand. It can be a mad rush to an elite spot where you dress for dinner and follow the gadding crowd—the sort that led to the old saw about a vacation being two weeks on the sands paid for by 50 weeks on the rocks. It can mix pleasure with a little work and be a double profit. If you are the "typical American man of action and decision," you'll work it out to your best advantage from the standpoint of refreshing your outlook, satisfying the demands of your family and catering to your own peculiar desires.

A re-creation type of vacation does not always fall within the present day definition of recreation, which has come to mean sort of a lackadaisical loafing with no point or goal, something which is done for you rather than something you do for yourself. But the re-creation vacation is the one for an architect! Into it you can put a lot of fun, some travel, some being waited-on (your wife will love that!), a proper amount of learning through seeing and a dash of your particular hobbies.

Going to a distant city gives you an opportunity to study some of the architectural high points of that city, where, we take for granted, other interesting things also have caught your attention to give you balanced fare. Thus you profit as a professional and as a person. If you elect the sands or the wooded lake, you will even then find opportunity to do a bit of gawking at things structural for you will pass through communities enroute and every community must have something which will interest you as a builder. So, no matter what the course and goal, you can make your vacation pay off—happy trip! . . . The Staff.

H. W. FRIDLUND, A.I.A., Editor
FRED MILLER, JR., Editorial Production
C. J. LORETZ, Business Manager
Nestor 2641

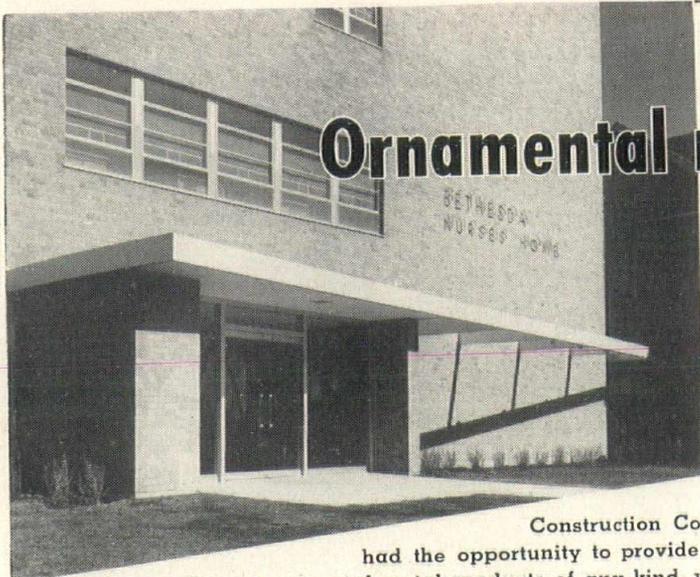
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ARCHITECT

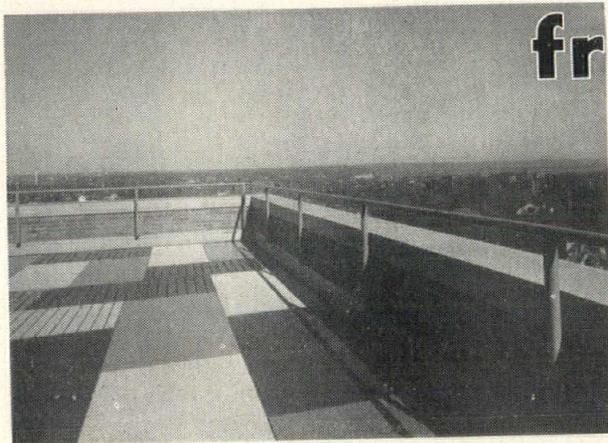
VOLUME XVIII
NUMBER 3 1954



Ornamental metal speaks for itself

The canopy framing on the front of the building was designed and fabricated specifically for this structure by the metal craftsmen at Minnesota Fence and Iron Works.

Bethesda Nurses Home was designed by Ellerbe and Company, architects, and was built by the Standard Construction Company. Minnesota Fence and Iron Works is proud to have had the opportunity to provide ornamental and structural metal fabrications for it. If your plans call for ornamental metal products of any kind, we will be pleased to serve you.

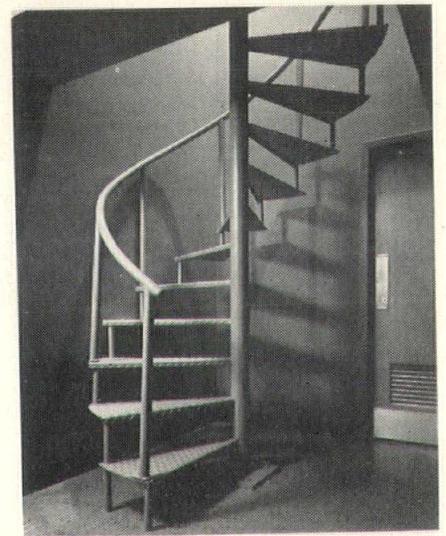


from TOP . . .

This sun-deck on the roof of Bethesda Nurses Home is protected by a strong, ornamental pipe railing by Minnesota Fence and Iron Works. Recreational activities on this parapet are safer and more enjoyable with positive protection.

. . . to BOTTOM

Leading down through this beautiful new structure are strong, space-saving circular steel stairs. They were constructed for a lifetime of service by a firm with 85 years of experience.



"METAL CRAFTSMEN SINCE 1869"

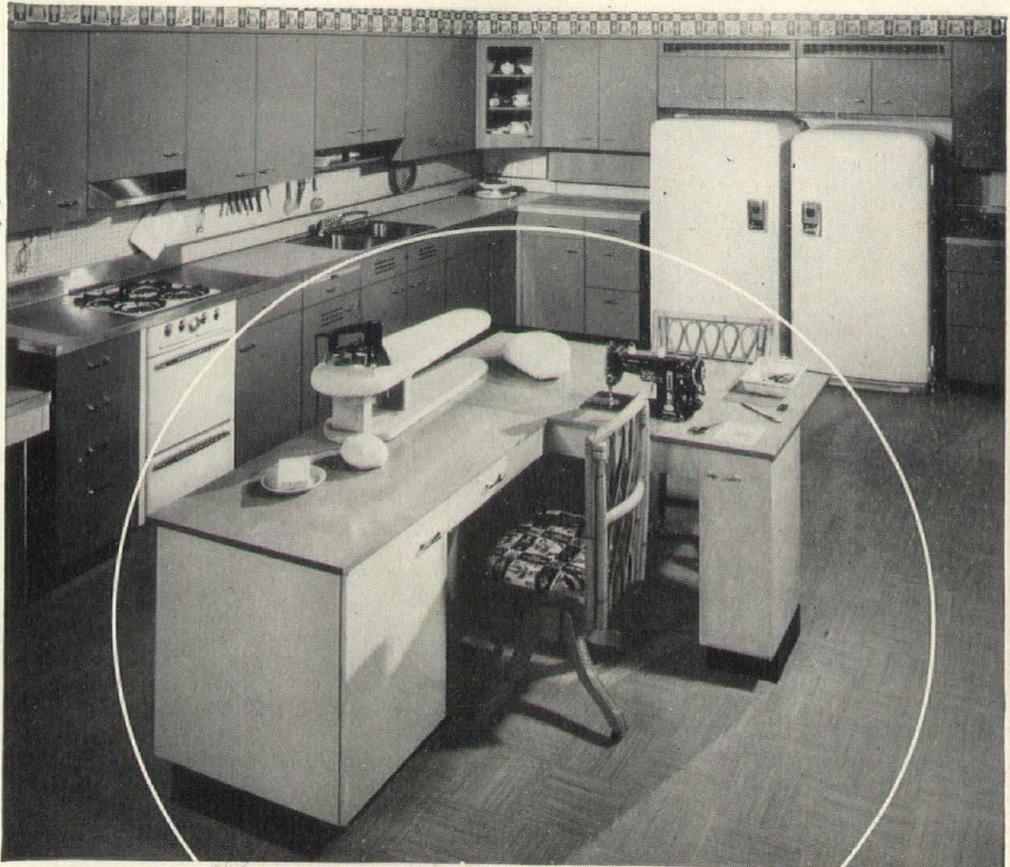
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St. Charles exhibit at the A.H.E.A. convention.
New clothing construction unit in foreground.

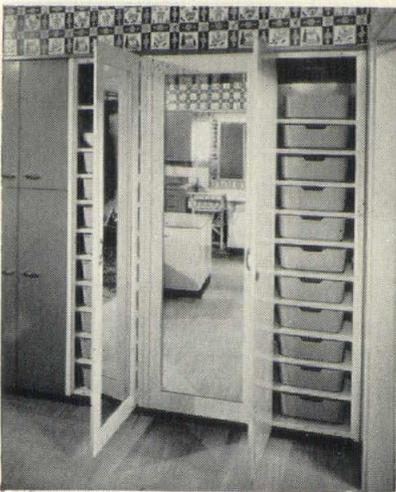


ANOTHER *St. Charles* FIRST!



TOTE TRAY UNITS

Other St. Charles equipment for the clothing classroom includes wardrobe units and tote tray units. These may be used separately or, with mirrors on doors, may be grouped to make fitting area as shown below. Grooming area is also available.



ARCHITECT

New Clothing Construction Unit Organizes Work in the Clothing Classroom

This compact unit adapts, for the clothing classroom, the same basic principles—smooth flow of work and convenient locations of materials and equipment that are found in the St. Charles foods classroom. Focal point is the sewing machine which drops into the counter when not in use. To its right is storage for attachments and a file for reference material. The depression on the surface holds pins and scissors. Drawer at left holds tracing supplies. Tracing board is suspended on slides below drawer. Cupboard at left holds tote trays. There is storage on other side for skirt board and other pressing equipment, including asbestos lined compartment for steam iron and additional tote tray storage. Fold-over leaf, which covers machine when not in use, opens out to provide counter space for pupil doing hand sewing. Three-panel jointed Masonite cutting board fits over top providing cutting surface 43" x 66".

Over a year of research has gone into the production of this newest addition to the equipment offered by St. Charles for the homemaking classroom which includes unit kitchens for the foods room and storage units for the laundry. All St. Charles equipment is available in choice of twelve colors, an important aid in making the classroom homelike and appealing.

FREE BOOKLET. Send for your free copy of *Education for Living*, a recently published study of St. Charles products and their application to the homemaking classroom. Write to

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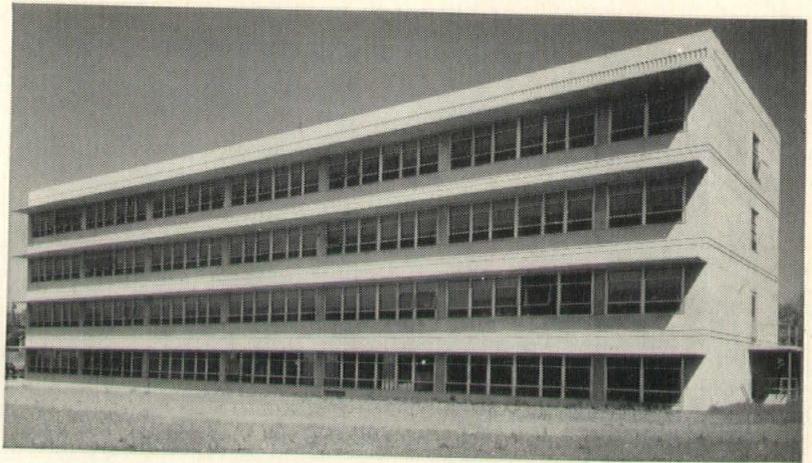


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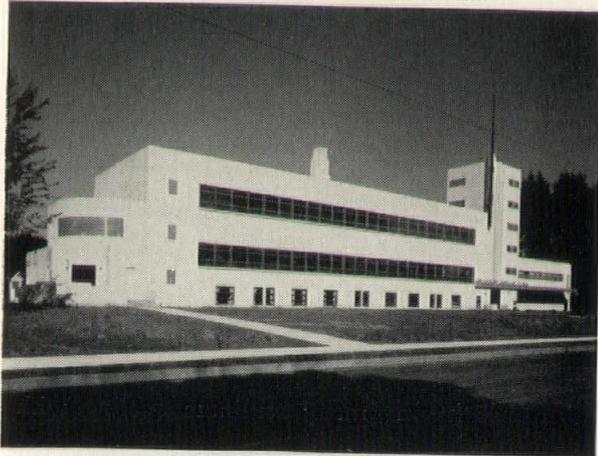
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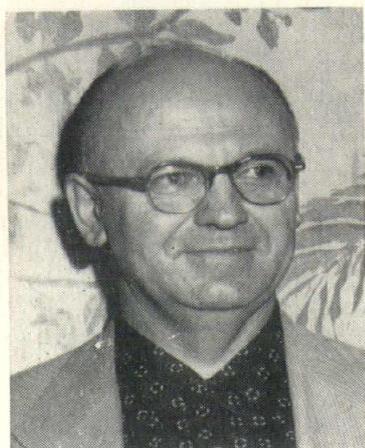
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Minnesota Society and Regional A.I.A. Convention in Rochester to Have Theme of

The Role of the Specialist in Architecture



President Stolte
He Will Preside



Chairman Ellerbe
He Will Arrange

The vital role of the specialist in the architectural practice of today will be the theme of the convention of the Minnesota Society of Architects and the A.I.A. Region when members gather in Rochester, Minn., October 28-29-30. Early plans show that those attending the convention will be treated to the best of speakers available for this meeting and a chance to find out a great deal of the latest information about special construction and design problems.

Planning is being pushed by two committees—the regional work by a group under the chairmanship of Upton Close of Minneapolis and the state phase by a group under the guidance of Lawrence E. Hovik of St. Paul. Tom Ellerbe, St. Paul, is general chairman and is co-ordinating the work of all committees so the convention will be a unified presentation.

The theme of "The Role of the Specialist in Architecture" was considered particularly appropriate for this convention because it is being held in Rochester, whose architectural features are of a special kind, centering around the medical needs of the famed Mayo Clinic and associated activities. The design and construction of the city's buildings are the results of the co-operation of specialists with other specialists and the seminars planned as a principal feature of the three-day gathering will develop this idea to its optimum.

Both main speakers for the programs have not yet been announced but the chairmen reported that they will be only two, both top level men. The opening speaker will be an outstanding regional architect and the other will be Slade Schuster, Mayo Clinic administrator, member of the board of governors of the clinic, the Mayo Association, Kahler Corporation and Franklin Heating Station, who will spotlight the many features that go to make up this world renowned organization and its structural environment. The situ-

ation of the meetings and the opportunity to delve into the role of the specialist is unique.

It is felt that having many seminars dealing with various aspects of the work covered by the theme of the meetings will open up more avenues of study and investigation, producing more definite results for those attending the convention, than would be the case of using a list of speakers, one after another. The chance to question and debate is believed important in getting the most from the discussions.

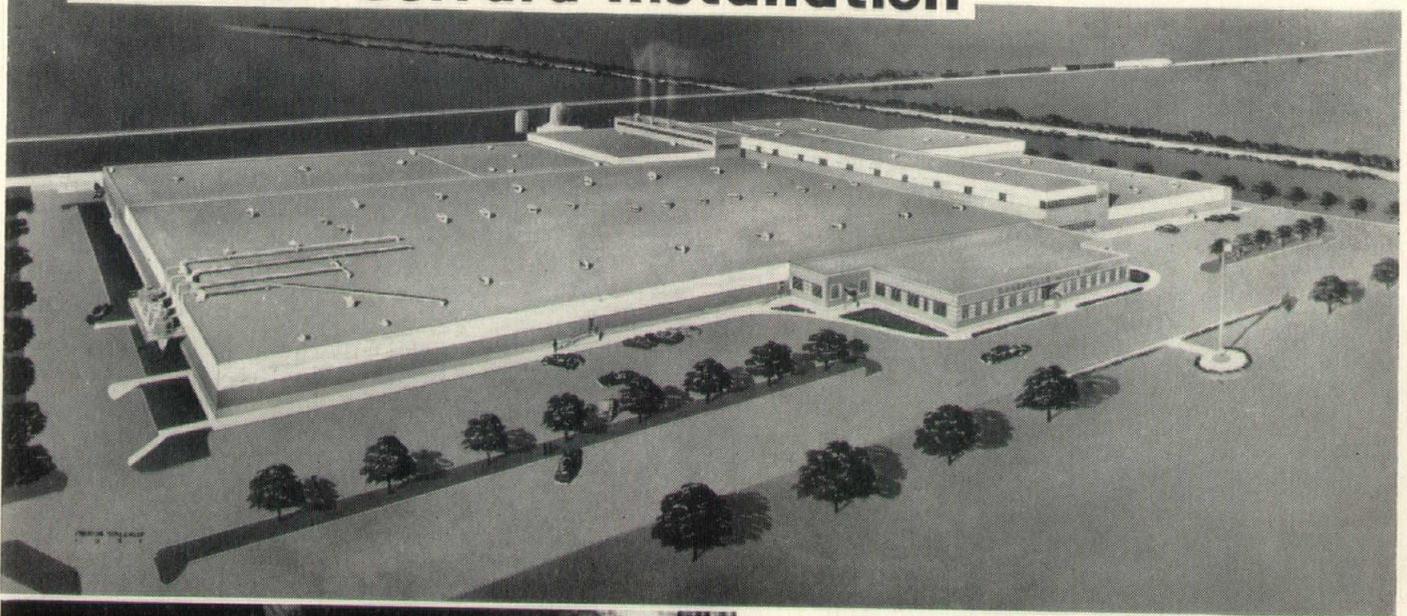
Headquarters for the convention will be in Rochester's Hotel Kahler and the tentative schedule of events, which naturally is subject to change as plans develop but which will give a clear idea of what is in store for members attending, is as follows. This information was supplied us through the courtesy of Mr. Hovik and his committee.

Thursday—October 28

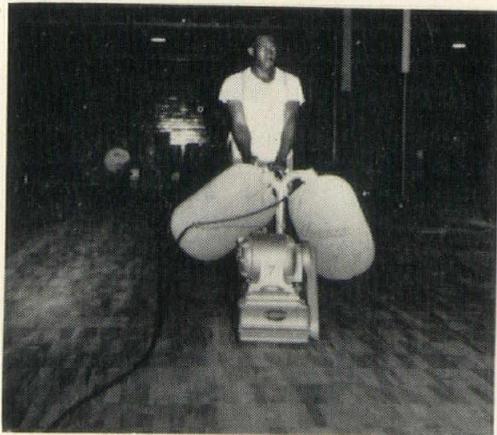
- 10:00 to 8:00—registration, Kahler. Windsor Lounge or Mezzanine.
- 12:00 to 2:00—lunch, You're on your own.
- 2:00 to 4:30—meetings of boards, committees, seminars in Kahler's Royal, Coach, U-Club Solarium.
- 3:00 to 4:30—ladies' tea, Mayo Foundation House. Kahler Solarium or Art Center.
- 4:30 to 5:30—tours of Medical Science Building.
- 5:30 to 6:30—tours of Mayo Clinic's New Building.
- 6:30 to 8:00—cocktails, Kahler's U-Club, individual drinks.
- 7:00 to 9:00—buffet supper, simple chafing dish, Kahler's U-Club.

(Continued on Page 10)

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These men direct the society for 1953-54 and will have important roles in convention—(seated, l-r) Secretary P. C. Betenberg of St. Paul, President S. L. Stolte of St. Paul and Vice President E. D. Corwin of St. Paul; (standing, l-r) Treasurer C. H. Smith of Duluth and president of the Duluth Chapter A.I.A., and A. R. Melander, director and past president.

Friday—October 29

- 8:30 to 12:30—registration.
- 9:00 to 12:00—meetings in Kahler's Solarium, U-Club, Royal and Coach Rooms.
- 10:00 to 11:30—ladies' tour of Dayton's Store, Art center, Historical Society, etc.
- 12:00 to 2:00—men's luncheon, Kahler Royal Coach Room or Elizabethian Room, with main convention speaker.
- 11:30 to 12:30—ladies' social hour, sherry, Rochester G & C Club (Alternate—Include women in main luncheon).
- 12:30 to 1:30—ladies' luncheon, Rochester G & C Club (Alternate—Include women in main luncheon).
- 1:30 to 3:00—ladies' style show at Rochester G & C Club by Rochester merchant or merchants. (Alternate—Include women in main luncheon).
- 3:00 to 4:00—bus tour.
- 2:00 to 4:00—meetings in Kahler's Solarium, U-Club, Royal and Coach Rooms.
- 4:00 to 5:30—tours, Medical Science Buildings.
- 5:30 to 6:30—tours, Mayo Clinic's New Building.



- 7:00 to 8:00—cocktails, Rochester G & C Club.
- 8:00 to 1:00—dinner dance in Rochester G & C Club, serving from 8:00 to 11:00, dancing from 9:00 to 1:00. Note: no speakers, no magicians, no acrobats . . . on with the dance!

Saturday—October 30

- 9:00 to 11:00—meetings in Kahler's Solarium, U-Club, Royal and Coach Rooms.
- 11:00 to 12:00—annual meeting, place to be designated.
- 12:00 to 1:00—men's luncheon.
- 1:00 to 2:00—annual meeting (finish).
- 12:00 to 2:00—ladies' luncheon and annual meeting in Holland's private dining room.
- 2:00 to —tours, Mayo Clinic.
- 2:00 to —tours, State Hospital.
- 2:00 to —tour, Franklin Heating Station & Subways.

Supplemental Information—the local arrangements committee would like to note a few items:

At the last few conventions we have attended we noted a lack of interest in the main dinner and the "we have with us this evening the world renowned" type of speaker and have therefore arranged for a dinner-dance without formal seating and no speaker. Perhaps if the treasury is flush a good dance team could put on an act.

Some of us early risers have prowled around the exhibits before morning sessions opened. Perhaps the Producers Council members would like to start something new and get the early birds to see their wares.

The bus tour in Rochester can hardly be as exciting as a boat ride around Manhattan or the Skyline Drive at Duluth but you should see huge flocks of wild ducks and geese at Silver Lake.

The tours through the new Mayo Clinic Building are scheduled after patient visiting hours so we can see some of the working parts. This building, as you all know, has no hospital beds but has about 700 consultation, examination or treatment rooms. The

(Continued on Page 26)

Auxiliary officers included (upper, left to right) Mrs. N. H. Mortenson, retiring president, Mrs. G. H. Carter, new president, Mrs. Edwin Lundie, new vice president, and Mrs. Thos. Shefchik, retiring vice president. Below are (seated) Mrs. G. H. Carter, new state president, Mrs. E. H. Lundie, new state vice president, Mrs. A. H. Lange, Minneapolis treasurer, Mrs. C. M. Tammen, Minneapolis chairwoman, and Mrs. E. R. Cone, St. Paul chairman; (standing) Mrs. F. A. Gabbert, retiring Minneapolis secretary, and Mrs. H. Johnson, retiring Minneapolis treasurer.

Pella
casements...
installed in the new

St. Paul's Lutheran Church

Fairmont, Minn.



- *Frank A. Abrahamson, Architect* incorporated Pella windows into the structural beauty of this new St. Paul's Lutheran Church . . . in the Pastor's Study, Pastor's Sacristy, Conference room, Secretary's Office, and Work Sacristy at the rear. Other features include slate roof, copper metal work, Fond du Lac stone ashler, and Kassota stone trim.

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Functionally neat, the school's design fits in with its confined structural site and selection of materials was governed by the area and the function. _____



ANACONDA SCHOOL

Succeeds On A Restricted Site

The new parochial Central High School in Anaconda, Mont., designed by Architects Fox & Ballas, AIA, of Missoula, is a remarkably successful solution of a number of design problems. The downtown site is only 120 by 200 feet, and is bounded by rights-of-way on three sides and by a residence on the fourth. On this relatively small plot had to be fitted a building with classroom facilities for 500 boys and girls, a gymnasium and an auditorium.

Provision had to be made for a dining room suitable for dinners and group events and for use of the gymnasium and auditorium for community functions. Recreational facilities that would attract the high school student after school hours had to be incorporated to make the school a "Teen-Age Center" and an effective instrument in combating juvenile delinquency.

Finally, there was a very definite cost limit: \$600,000. The structure was done for \$564,454 or about \$10 per square foot. The building has a total of 55,830 square feet and 933,000 cubic feet. General construction cost was \$457,154, mechanical work \$75,300 and electrical \$32,000.

Among the factors contributing to the low cost are an exceedingly compact floor plan, common walls for gymnasium and auditorium and the use of vermiculite plaster and acoustical plaster for lightweight fireproofing and sound control. The acoustical plaster also eliminated painting many ceiling areas since color pigments were mixed into the wet material before it was applied. Color was used freely throughout this build-

ing to create a refreshing and stimulating atmosphere. For instance, the hallway ceilings are vermilion, the floors green, this contrast providing a stimulating color theme.

Central High School occupies a corner site in downtown Anaconda at the intersection of Cherry and Third Streets. Over-all dimensions are 133 by 195 feet. The building is three stories high on Cherry, two stories high on Third. There is also a basement containing locker rooms for the gymnasium and a kitchen and dining room for community use. A paved court area at one entrance provides a place for students to gather without being on the city sidewalks.

The construction is reinforced concrete with exterior walls of brick veneer on a backup of lightweight concrete block. This structure is as fire resistant as it is possible to make one. The only wood, other than fixtures, is in doors, door frames and the gymnasium floor. All furred spaces are of metal channels and metal lath, on which the base coat fireproofing was applied $\frac{5}{8}$ " thick. Walls have a sand float finish except in corridors where there



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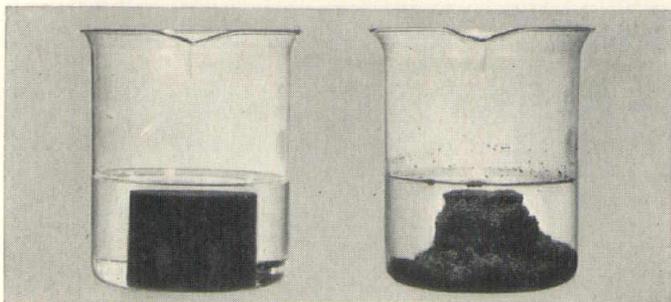
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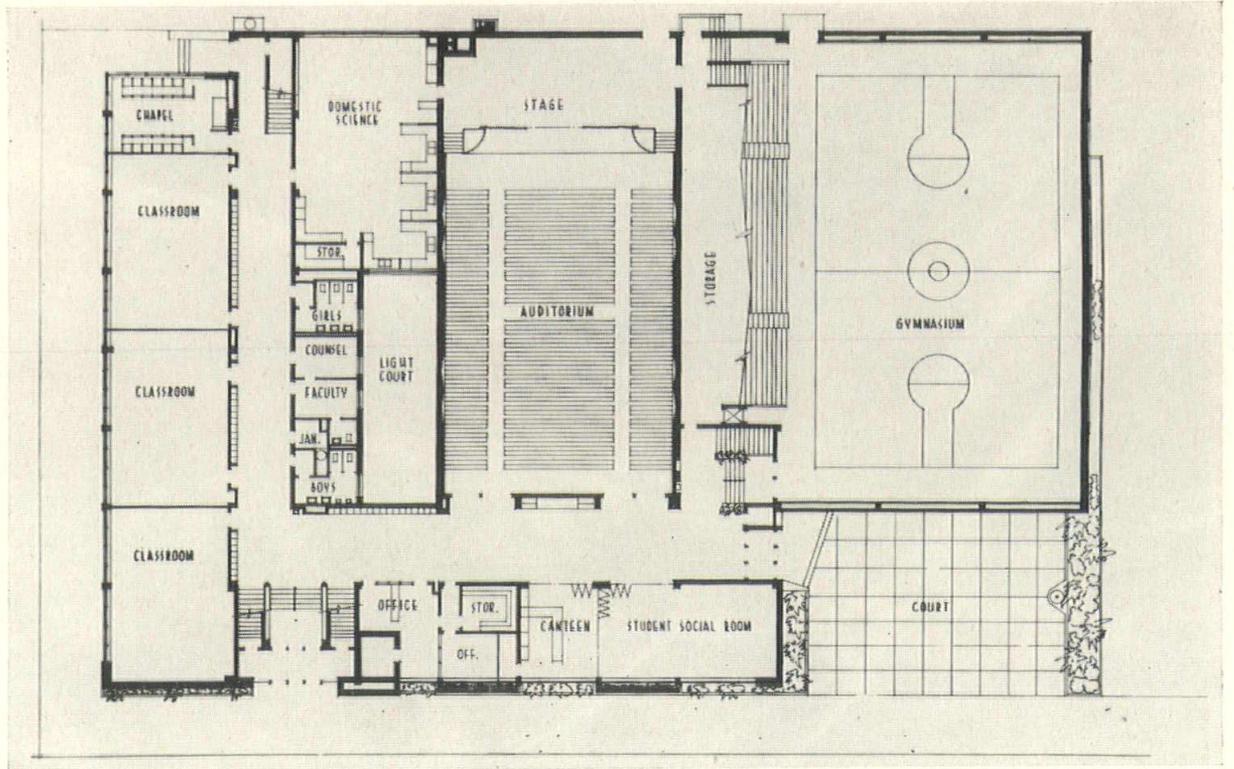


Compare "RAMCOAT" with ordinary blacktopping! Samples of "RAMCOAT" (left) and ordinary blacktop were molded under 3000 lb. pressure, then immersed in water. Within 24 hours, ordinary blacktop broke down . . . "RAMCOAT" stayed in perfect condition, proof of its amazing high water repellancy.

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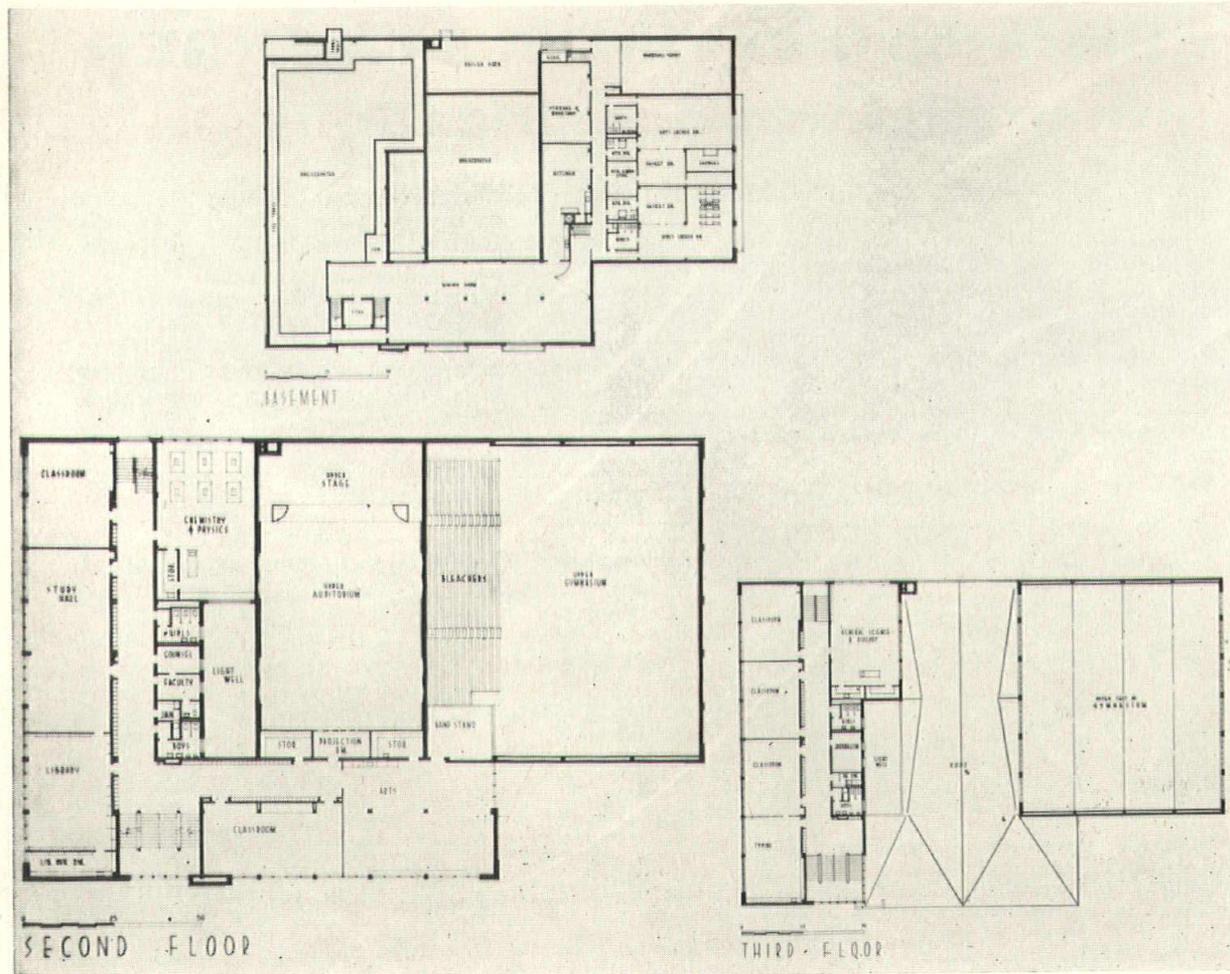


First Floor Plan

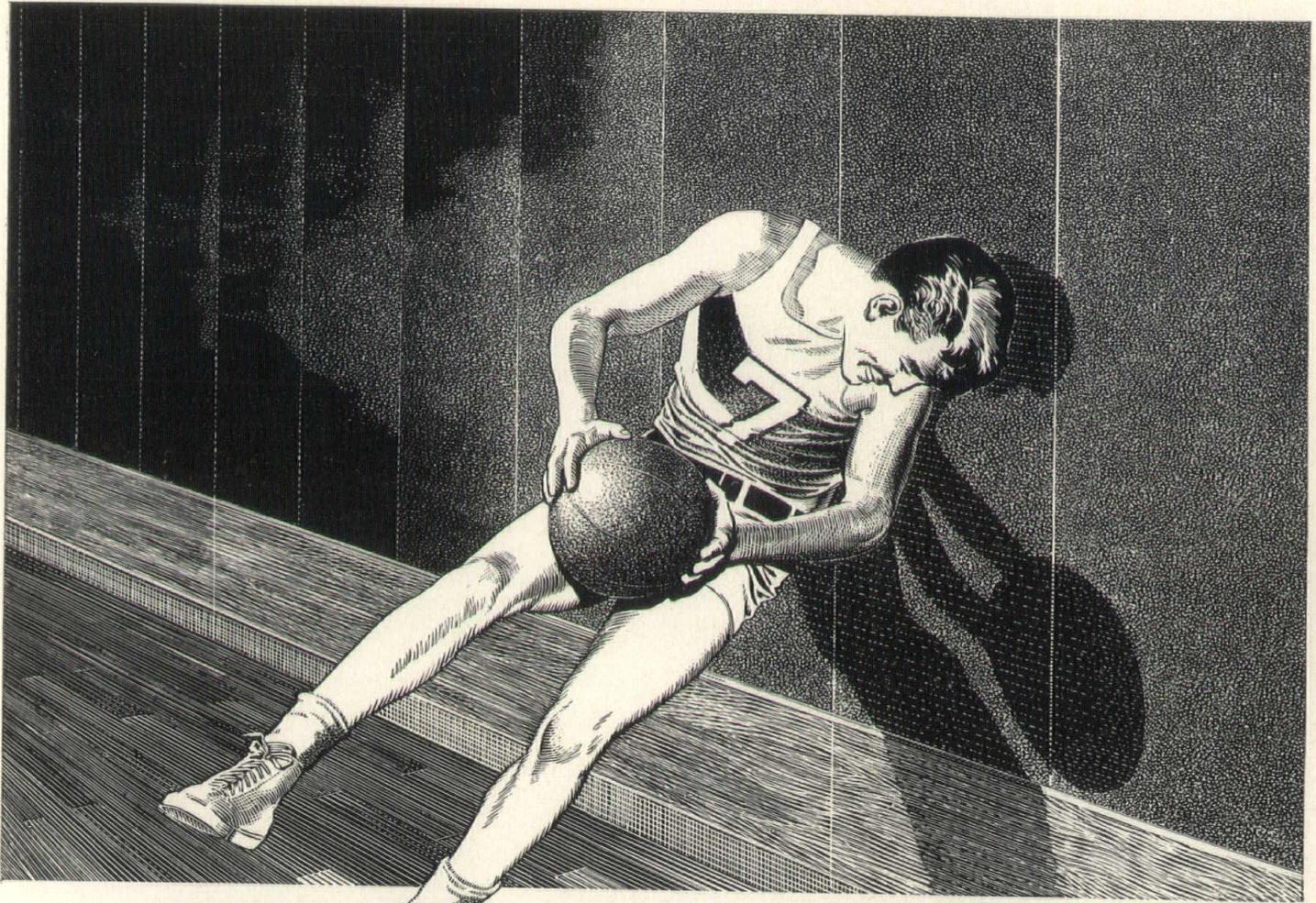


are no lockers. There the finish is rubber wainscot. In restrooms, the wainscot is ceramic tile. All ceilings have a half-inch of acoustical plaster applied in two coats. Where deep colors were used the pigments were mixed into the wet material. White

and pastel ceilings were spray-painted. The deep colors include stunning shades of vermilion, ultramarine blue, purple, brown and gold. These colors were carefully worked out in the architects' offices, where small sample batches of pigment and acoustical plaster were made



Basement, Second and Third Floor Plans



NEW cushion-wall cuts gym injuries!
costs little more than hard surface walls

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ARCHITECT

up and accurately weighed. The data were then translated into full-scale batches for the plastering contractor.

Floors in corridors and classrooms are finished with asphalt tile. The gymnasium floor is maple, the main entryways and stairways are green terrazzo and rest-rooms are ceramic tile.

The roof is of insulated construction with built-up roofing of asbestos felt and asphalt. The gymnasium roof is supported by steel trusses and steel joist purlins, the auditorium roof by long-span steel joists.



All classrooms have wall to wall double-hung steel window sash with a ventilating section at the bottom to admit fresh air without drafts. Virtually all classrooms face east, the ideal exposure in that region.

The school proper has eight general classrooms, five laboratory classrooms, two counseling rooms, a journalism laboratory complete with photographic darkroom facilities, a library, administrative offices, canteen, social and recreation area, faculty room, chapel and rest-rooms.

The first floor location of the canteen and recreational lounge permits this part of the building to be used for teen-age activities in connection with the auditorium and gymnasium, like dances, dinners and similar affairs. Since this portion is completely isolated from classroom areas, student activities after school hours are possible without opening the entire building. The canteen has a complete soda fountain and ice cream dispenser. Folding partitions assure great flexibility.

A first floor entrance to the auditorium and gymnasium makes these sections accessible without entering the school proper. The auditorium seats 500 and has an elevated stage, projection booth equipped for sound motion pictures and storage for theatrical equipment.

The gymnasium, 80 by 95 feet, has bleachers for audience use. There is also a good storage area. Separate locker and shower rooms for the boys and girls are featured in the basement under the gym, with office space for the athletic directors.

Also in the basement is a completely equipped, modern kitchen that serves the 35 by 80 foot dining room. This can also be used as a cafeteria or for social gatherings. A large dumbwaiter, adequate for food carts, runs from the kitchen to the gymnasium floor level so that extremely large groups can be served in the gym. The dumbwaiter is also useful for removing garbage from the kitchen.

The library, study hall and some of the classrooms are located on the second floor. The third floor contains more classrooms and a large department for commercial subjects.

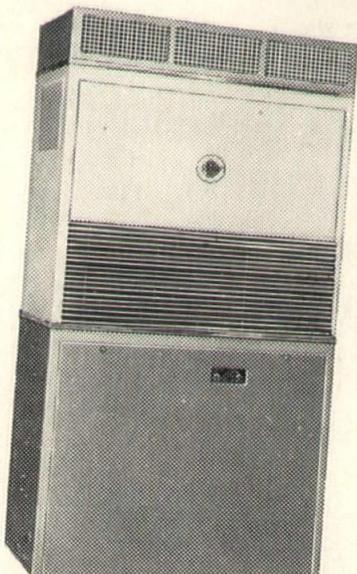
Wide corridors, well located, assure quick and safe student circulation between classes.

The electrical work provides for every conceivable development in school planning. Thirty foot candles of lighting in classrooms are insurance against eye strain. The latest in gymnasium lighting was used and the newest type of stage lighting as well. Provision was also made for motion pictures. There is an intercommunication system between administrative offices and all classrooms. The best solid bronze hardware obtainable was used throughout the building. The architects believe

(Continued on Page 26)

The pictures here show various features of the Anaconda school. Top is the home economics classroom, equipped with the most modern facilities. The canteen is shown next; note folding doors which can be opened to make it part of the social room. A typical hallway is the third picture and at bottom is the journalism classroom, with photo facilities at rear.

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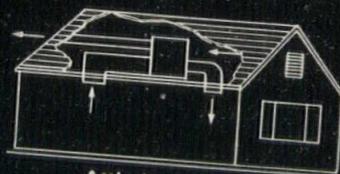
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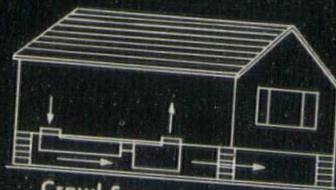
4 SPACE-SAVING INSTALLATIONS



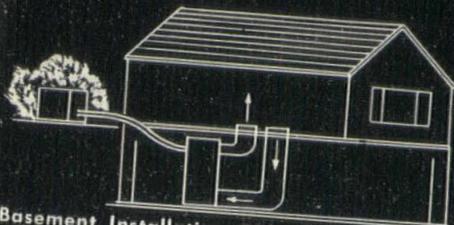
Utility Room and Attic Installation



Attic Installation



Crawl Space Installation

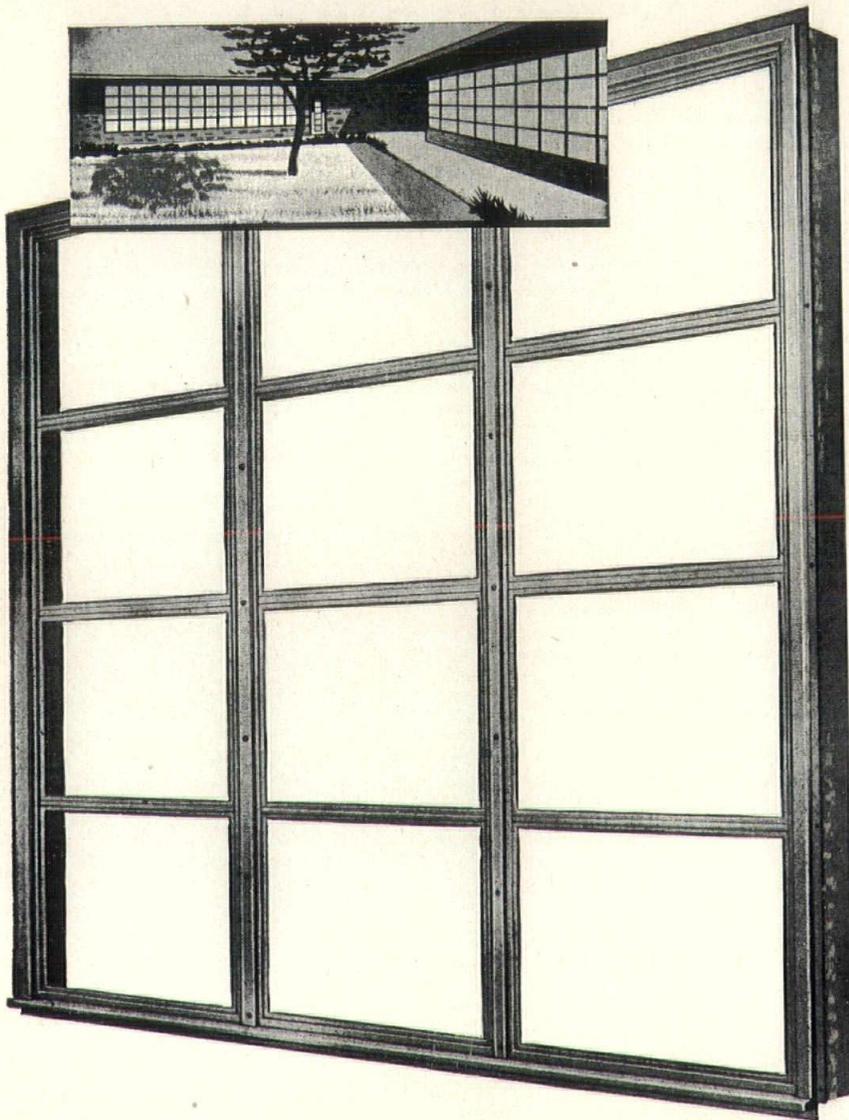
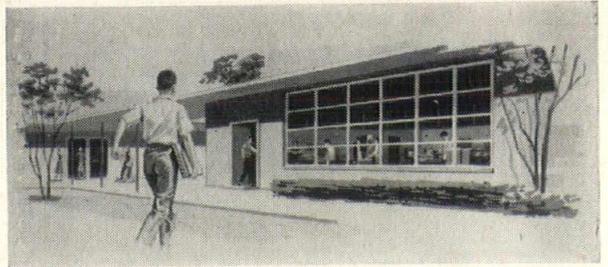


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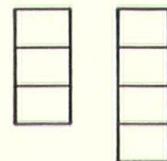
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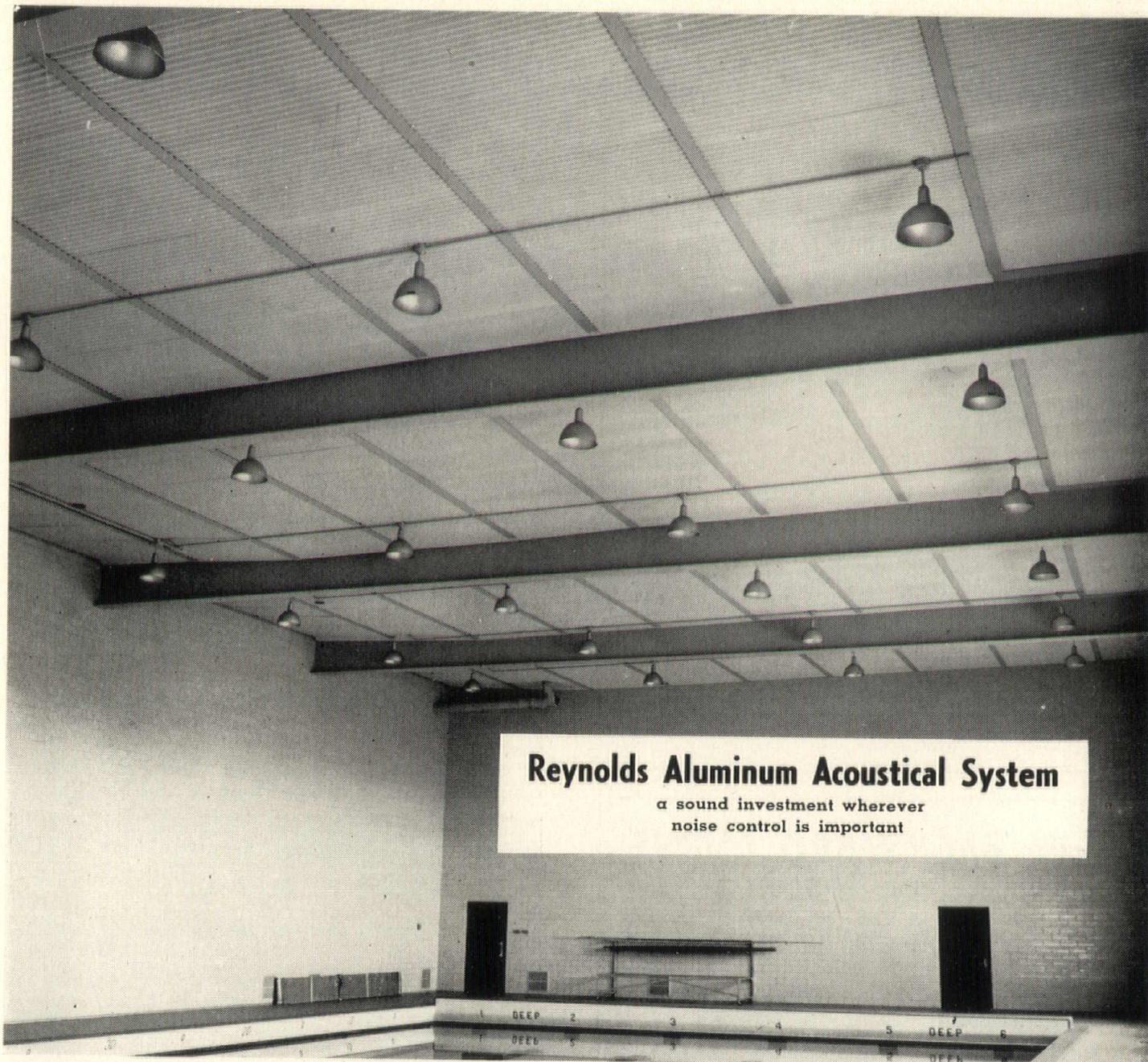
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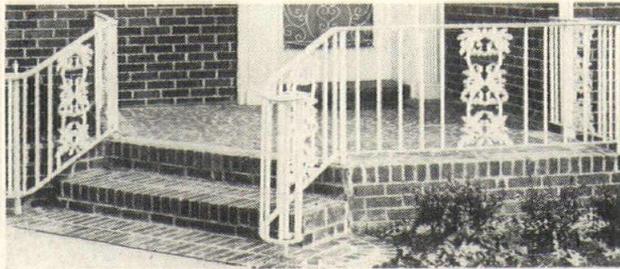
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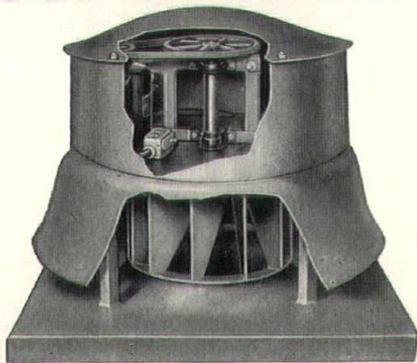
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**A.I.A. PRESIDENT STANTON ADDRESSES
NORTH DAKOTA CHAPTER**

Glenn Stanton of Portland, Ore., president of the American Institute of Architects, addressed the recent annual meeting of the North Dakota A.I.A. Chapter in Fargo, during which new officers of the



group were elected. Shown in our top picture are (left to right) Edgar H. Berners of Green Bay, Wis., North Central States' Regional A.I.A. director, Vern L. Larson, president of the Minnesota-Dakotas Chapter of the Producers' Council, and Mr. Stanton.



The other photograph shows the 1954 officers of the North Dakota Chapter (left to right) Knute A. Henning of Fargo, president, Harold Brunner of Minot, vice-president, W. J. Seifert of Fargo, secretary, and Paul Grosz of Grand Forks, treasurer.

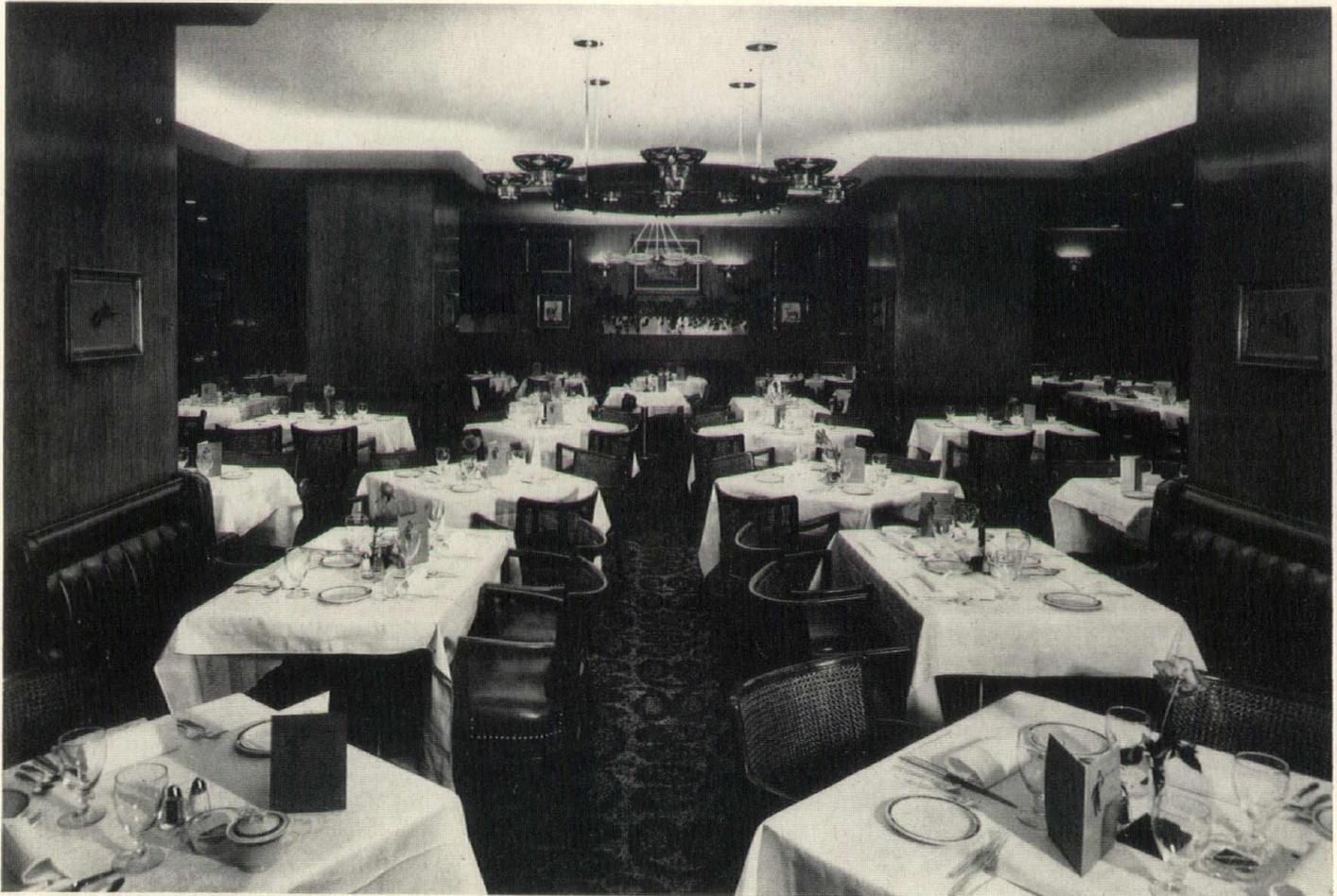
Photos by Stan Cowan of The Fargo Forum

The air we breathe is bound to be free always—but each year it costs more and more to breathe it.

Ready? Plan Now!

**Attend that Rochester Convention
in October! See page 8**

"Machine Applied" ZONOLITE Acoustical— Results . . . Outstanding!



ANOTHER SUCCESSFUL MACHINE APPLIED ZONOLITE JOB! NEW DINING ROOM—COSMOPOLITAN HOTEL, DENVER

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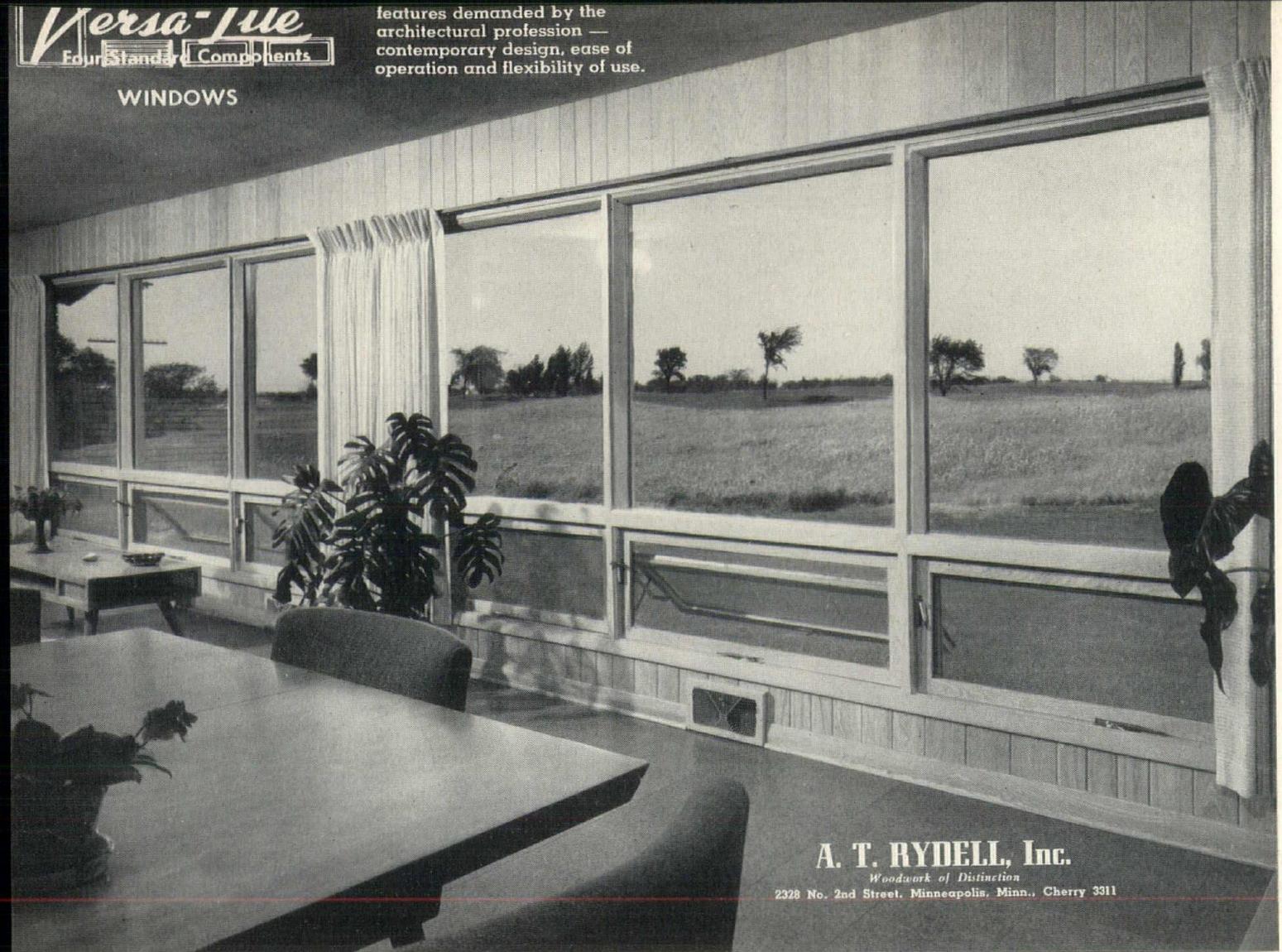
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BUREAU OF STANDARDS TAKES ON HUGE RADIOACTIVE MEASUREMENT JOB

The National Bureau of Standards has added what may become a tremendous task to its custodianship of the standard yard and pound. As radioactive materials become more and more a part of our scientific and industrial lives, the need for standards for all the radioactive materials and processes will have to be met by the bureau.

The first standard of radioactivity was set up by the bureau's laboratories in 1926, with the arrival of the first calibrated radium sample. Since then, and particularly since the giant strides of recent research have taken us into the "radioactive age," the work has grown until now it is carried on in six laboratories, each one with its particular radioactive field to cover. Among the laboratories the one which could be of most general public interest is the Alpha-Ray Measurements Laboratory, which has the responsibility of calibrating alpha-ray sources for use in military and civil defense radiation monitoring equipment.

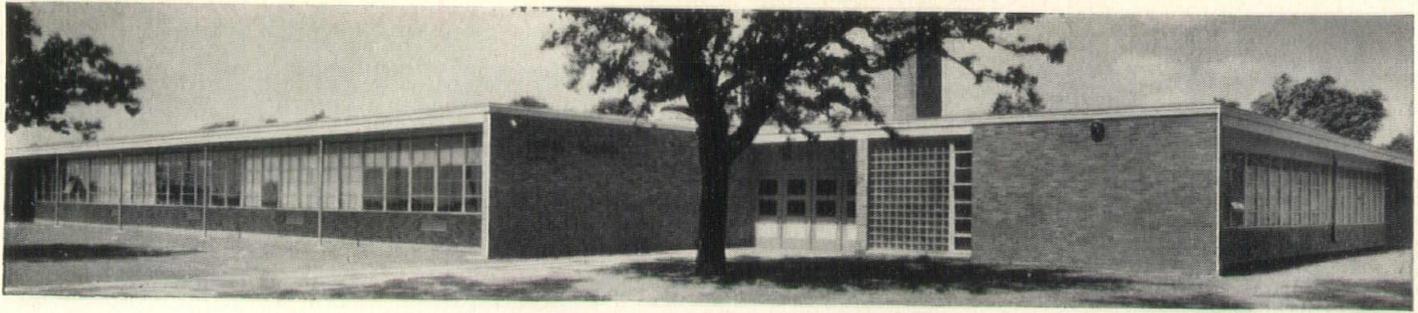
In addition to the domestic needs of this country for standards in this field, the bureau is engaged in co-operative work with the National Physical Laboratory of the United Kingdom, the Canadian National Research Council and Atomic Energy of Canada, Ltd.

Far beyond the simple days when radium was just a one-word thing, today the labs' reports deal with items like strontium-90/yttrium-90 ($\text{Sr}^{90}/\text{Y}^{90}$), thallium-204 (Tl^{204}) and gold-198 (Au^{198}).

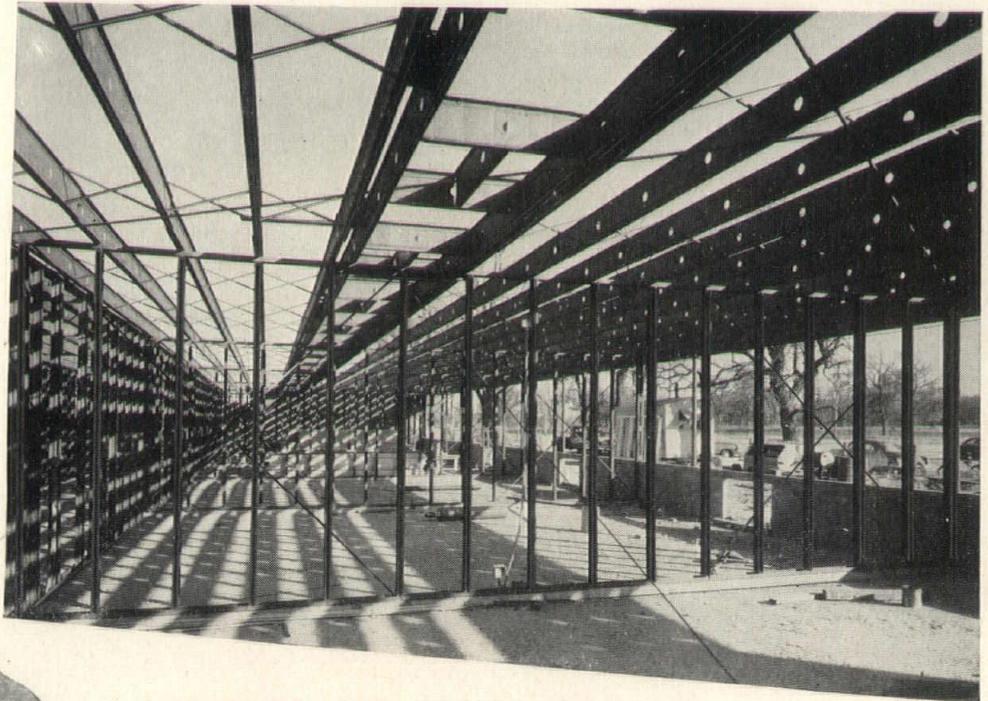
While the average architect of today may feel he is removed from this world of science, it will not be long when he will have to deal with all the complicated factors of radioactivity in designing his structures of tomorrow, when radioactive materials will be found in many, if not most, structures, both industrial and residential. Realization of this fact by some of our younger architects may well lead to specialization in the design of buildings in which radioactive materials will be handled and used.

SOLAR HEAT MAY BE IN GENERAL USE BY 1963

Heat from the sun may take its place among the common methods of home heating by 1963, according to John E. Haines, first vice-president of the American Society of Heating and Ventilating Engineers. In a recent report to an engineering chapter, he said that important basic data to be used in design and production of solar energy heating systems was being developed by research conducted by the society in co-operation with the University of Minnesota.



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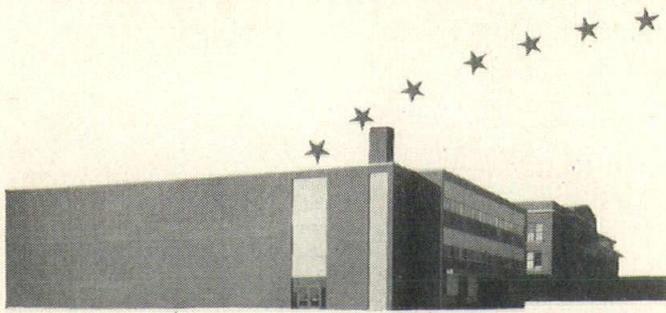
H. B. CROMMETT, *Architect*
 St. Paul, Minn.



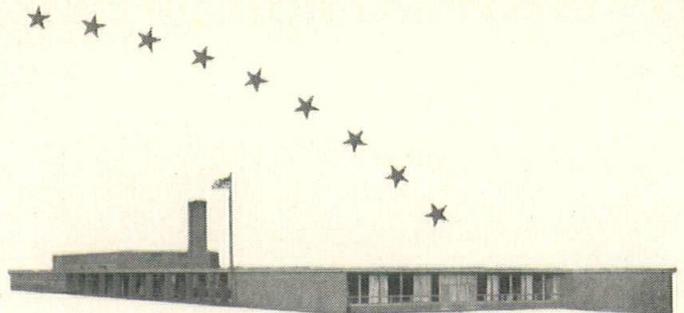
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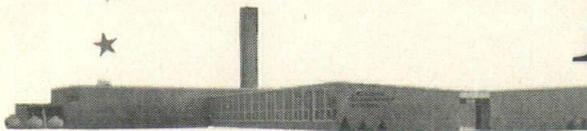
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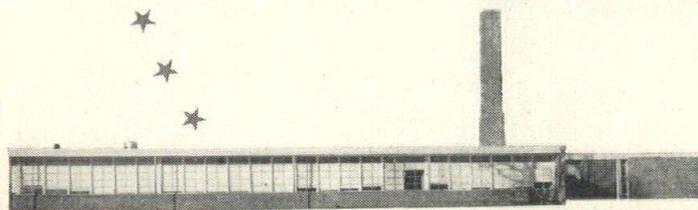
Edina School



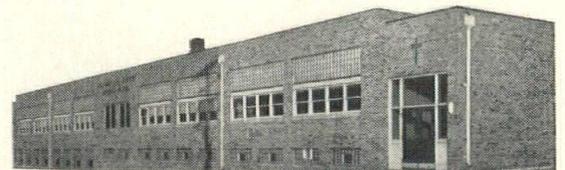
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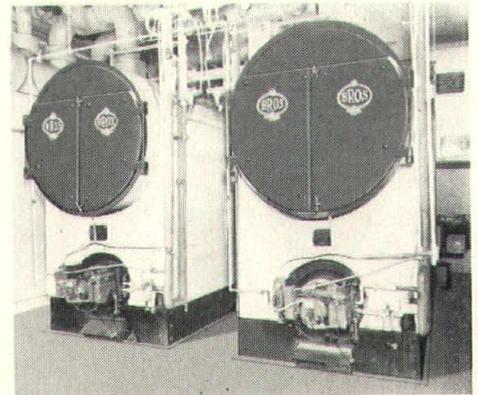
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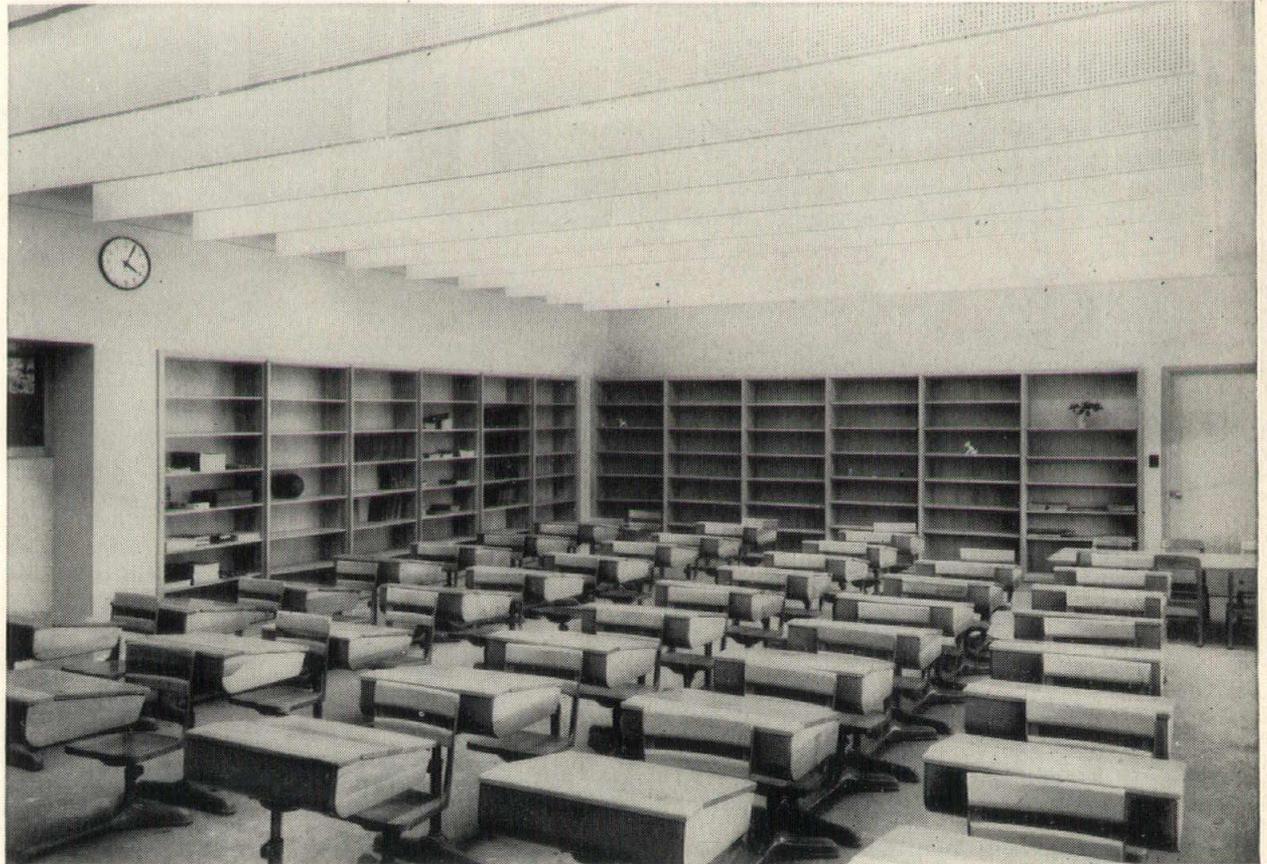
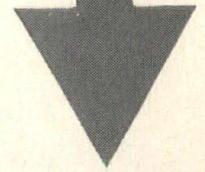
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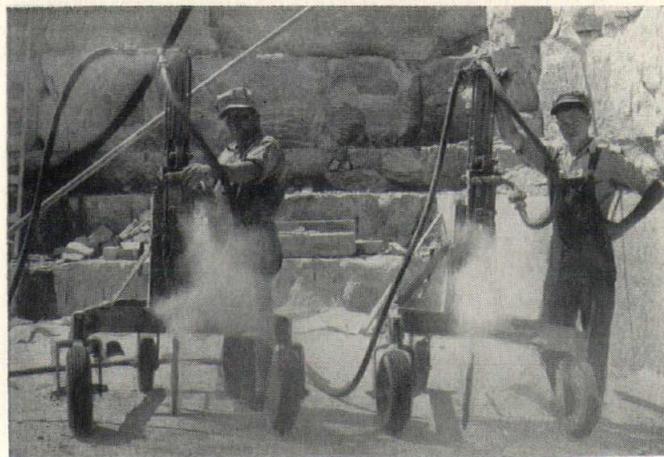


OUR COVER

A Minnesota Insurance Company Builds With Fine Minnesota Materials

The idiom of modern architecture, with its clean functional lines, will be fully expressed in the new \$2,500,000 home of the Minnesota Mutual Life Insurance Company, designed by Ellerbe & Company of St. Paul and shown in the drawing on our cover. William Baumeister Construction Company is the contractor.

The eight-story building will be of cream Kasota Stone, a Minnesota product whose use has been specified by architects and contractors from coast to coast. The use of natural stone "will symbolize the firm's reputation of strength and reliability." Minnesota Mutual is one of the 25 largest underwriters of mutual insurance in America.



This is the quarry from which the stone is cut.

This handsome addition to the Northwest's skyline is scheduled for completion in August of 1955, which will allow Minnesota Mutual to celebrate its 25th anniversary in its new home office building.

ARTICLES ON CITY PLANNING AROUSE WIDE DISCUSSION

Our current series of articles on city planning and the problems of the modern burgeoning community have aroused a lot of discussion and a recently received clipping indicates it has spread beyond the confines of our own Northwest area.

From Portland, Oregon, and the pen of editorial writer Stewart Holbrook of the *Portland Oregonian* comes editorial comment as follows (from the paper's February 17th issue)—

"Shopping in a Glass City"

"Pointing out that weather and traffic congestion have combined to drive many places of business into the far suburbs, William Gray Purcell, writing in the *NORTHWEST ARCHITECT*, is proposing a boldly imaginative plan for complete overhaul and improvement of the whole downtown section of Minneapolis.

"Architect Purcell, who is well known in Portland, is no man to permit trends to hamper his mind; and in this instance he reaches back a full century for the architectural basis of his proposal, namely to the Crystal Palace of London and the great glass-enclosed galleries, or arcades, erected in Milan and Naples in mid-nineteenth century. If those cities of genial climate felt the need of maximum comfort for the shopper, Mr. Purcell asks, then what about Minneapolis which, says he, has no more than 137 decent shopping days a year? Add the traffic conditions current in most American cities, and little wonder that the values of Minneapolis' downtown area are in jeopardy.

"What Architect Purcell proposes is to 'glass-enclose a really vast space of now unused atmosphere in the heart of the business district.' Overall would be the roof. Vehicular traffic would be carried at ground level. All foot travel would be on raised walks passing through the buildings. These walkways would be warmed in winter, cooled in summer, safe from traffic hazards. They would pass hundreds of stores, small shops, and other places of business. The huge structure would have

sun traps and porches, stairs and escalators as needed.

"The current issue of *NORTHWEST ARCHITECT* displays Architect Purcell's plans for one complete 'Wintergreen Unit,' along with pictures of several classic arcades of the past. The effect is most pleasing, and one may hope it will start citizens to thinking seriously. But whether or not it will convince Minneapolis, Planner Purcell and his fellows have shown both courage and bold imagination in an idea that seems to accept the good old things and the good new things, blending them to the advantage of utility and aesthetics."

Writer Holbrook is author of a number of books, including the thought-provoking "Holy Old Mackinaw" and more recent "Moguls of U.S.A."

Rochester Convention

(Continued from Page 10)

Medical Sciences Building, you will recall, was honored with an award by our society, houses research laboratories, including the "G. Wheel" used in aviation—medicine research. The Franklin Heating Station furnish utilities to the Mayo Clinic and Kahler Corporation, properties. The one different utility is the central chilled water system for comfort cooling to these buildings. With the problems of mental health so prominent in our time how can you be up to the minute without a tour of the State Hospital?

Anaconda School

(Continued from Page 16)

that this is an item where additional cost is well worth the expenditure, since hardware should last the life of the building.

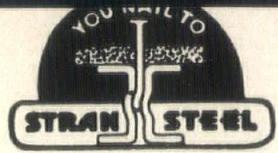
The school is heated with steam provided by a large gas-fired boiler. Fin tube radiation was used throughout the building, except in the gymnasium and auditorium. These rooms are warmed with air heated by steam coils, so that air changes and heating can go on simultaneously.

The building was erected by the Askevold Construction Co. of Missoula.



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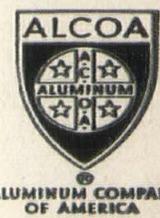


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BACKGROUNDING USE OF CALCIUM CHLORIDE IN CONCRETE

Calcium chloride in concrete has been an important addition for many uses, special and routine, and the following material from the Calcium Chloride Institute should be of interest to our readers as it summarizes use of this material. A fine booklet, "Calcium Chloride in Concrete," Manual CM-1, can be obtained from the institute at 909 Ring Bldg., Washington 6, D. C., on request without charge.

Most concrete users are aware of the benefits of calcium chloride in cold weather; however, many of them may not be aware that calcium chloride can also be most effectively used in warmer temperatures. We would like to point out here some of the major effects of calcium chloride in concrete in relation to its value in improving the quality of concrete and in reducing construction costs.

During colder temperatures, 70 F and below, calcium chloride is most effectively used at the rate of two per cent by weight of cement in the mix. In temperatures above 70 F calcium chloride will provide advantages similar to those realized in colder temperatures if it is used at the rate of one per cent per bag of cement in the mix.

The following data is based on more than 25 years of research and field investigations dealing with the

use of calcium chloride in portland cement concrete.

Initial and Final Set

The first noticeable effect of the addition of 2 per cent calcium chloride by weight of portland cement on concrete is the reduction in time required for initial set. It is reduced by two thirds under normal conditions — from 3 hours to 1 hour. The final set is reduced by the same ratio — from 6 hours to 2 hours. At lower temperatures the actual time of set will be slower but the accelerating effect of calcium chloride will be more pronounced.

Early Strength

At 70 F the use of calcium chloride more than doubles the one-day-strength of concrete. It produces greater strengths of approximately 50 per cent at 3 days and 30 per cent at 7 days.

Ultimate Strength

Substantial increases in ultimate strength, as well as early strength, result from use of calcium chloride. Tests by the Portland Cement Association show an increase of 9 per cent in 3 years; California Department of Public Works tests show 10 per cent in 5 years; and Bureau of Reclamation tests show from 6 per cent to 11 per cent at 5 years.

Curing

Integral curing means establishing favorable conditions for hydration during the setting and hardening period of cement. Desirable curing conditions neces-

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This store front in York, Nebraska, was designed by the architect with Shadelite in mind. For further information regarding materials, specifications, etc., write the KLAMPE Company, Minnesota distributors.

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sitate an adequate moisture supply at a favorable temperature range.

The use of integral calcium chloride with overnight wet burlap provides good curing by reducing moisture loss during the early hydration period, by releasing earlier the normal heat of hydration and by accelerating the hydration process.

Workability and Density

Either increased workability or increased density results from use of calcium chloride in the mix. Where increased workability is desired, the water cement ratio is maintained without change when calcium chloride is used. But when increased density is desired the water content can be reduced up to one-half gallon per bag of cement without loss of workability.

Resistance to Surface Wear

Use of integral calcium chloride provides wear resistance (hardness) equal to that obtained from 3-day wet burlap curing, as shown by National Bureau of Standards tests. The Bureau of Reclamation's tests show wear resistance of concrete containing 2 per cent calcium chloride is 100 per cent greater than plain concrete, as indicated by cavitation tests.

Air-Entrained Concrete

Calcium chloride reacts the same with concrete mixes containing air-entraining portland cement, or portland cement concrete containing an air-entrained agent, as it does with standard portland cement. Available data indicate its value in preventing excessive air-entrainment. Air-entrainment generally retards strength gain of concrete, particularly at early ages. The accelerating effect of calcium chloride more than compensates for this lag.

Calcium chloride increases the strength of the concrete at all ages, without decreasing air-entrainment effectiveness in providing a high degree of resistance to freezing and thawing.

High Early Strength Cement

Calcium chloride is effective with all high-early-strength portland cements. Its use is recommended where conditions require concrete to set quickly and reach strength at an extremely early age. Calcium chloride reacts the same with high-early-strength portland cement as it reacts with standard portland cement and the effects of its use are identical.

Surface Curing

Surface curing is accomplished by applying 1½ pounds of calcium chloride per square yard to the surface of concrete after overnight wet curing. This prevents the rapid evaporation of the mixing water, thus controlling volume change with its attendant weakening and checking. It gives a superior wear-resisting surface to the concrete slab and yields ultimate strengths equal to if not superior to the same concrete mixes cured by standard wet curing.

Calcium chloride surface method of curing is particularly practicable where early opening of pavements is important. Pavements may be opened safely as soon as the required strength is attained, even though the

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normal 3-day curing period has not been reached. This is not possible with ordinary curing methods.

A further advantage of the use of surface calcium chloride is that it results in a high degree of resistance to abrasion, as measured by standard methods of abrasive wear testing. Surface calcium chloride curing exceeds the standard of 3-day wet burlap by an appreciable amount. It is greatly superior to any other method of curing tested.

SOUND-OFF ON EVIL SOUNDS

More and more persons are sounding-off about the evil sounds of our cities and countrysides as it becomes increasingly imperative that noise abatement be given more research, according to Dr. Howard C. Hardy of the physics research department of Armour Institute.

Indicative of the growing recognition of the need for doing something about noises and their control, Dr. Hardy said, is the fact that the acoustics industry last year sold seven times as much of its products as it did in any pre-war year. But there is further need for new studies of noise and how to control it, particularly as far as transmission of sound through buildings goes.

Dr. Hardy listed several important studies which

he feels must be made soon. They are:

... a study of field practice in sound transmission, including a listing of important sound leaks and how they can be remedied in the fields; these leaks would include electrical wiring, doors, baseboards, ceilings and wall moldings;

... a study of the sound transmission properties of floors, on which there is practically no data at present;

... means of reducing noise in plumbing and piping systems;

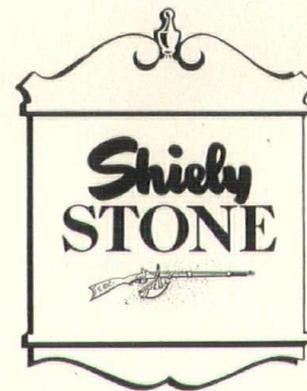
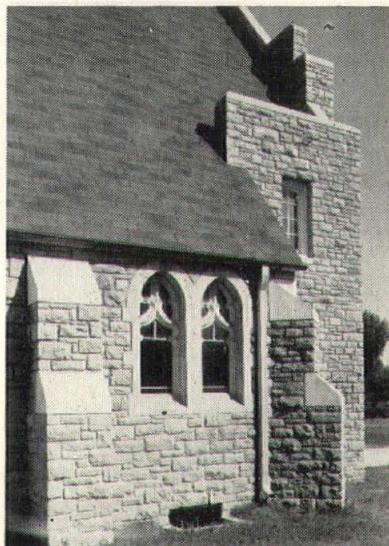
... further information leading toward complete specifications of noise in ventilating systems;

... study of good practice in regard to preventing factory noises from disturbing neighboring communities, including when windows can be opened and how to control traffic noise in unloading and parking.

For those architects who are interested in this problem of noise abatement the proceedings of the last three Annual Noise Abatement Symposiums are now available. They can be obtained for \$1.00 each from the National Noise Abatement Council, 36 W. 46th St., New York 36, N. Y. The papers included cover industrial, office, traffic, airplane and airport noises, methods of measuring noise and aspects of noise effects on health and control of noise.

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WALL
INTERIOR



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and autumn gold*



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**BUILDING INDUSTRY TO HAVE HUGE
DISPLAY CENTER**

A huge showcase for the newest in design and appointments of the modern home is being constructed as the National Housing Center in Washington, D. C.

The center will have hundreds of exhibits, changed frequently, showing the latest materials, equipment, color ideas, quirks and wrinkles, basic designs and other features which go into a modern home. It will be open to architects, engineers, contractors, home owners and all those interested in its exhibits.

Eight stories tall, the structure will cost \$2,500,000, be well situated in the heart of things—Washington. It will be completed in 1955. Headquarters of the National Association of Home Builders will also be located in the structure.

WE'RE MORE WASHED

Water use in the United States has quadrupled during the past 50 years, according to the U. S. Geological Survey. Although the population has doubled since 1900, the per capita water use has gone from 500-600 gallons per day to 1,100 gallons.

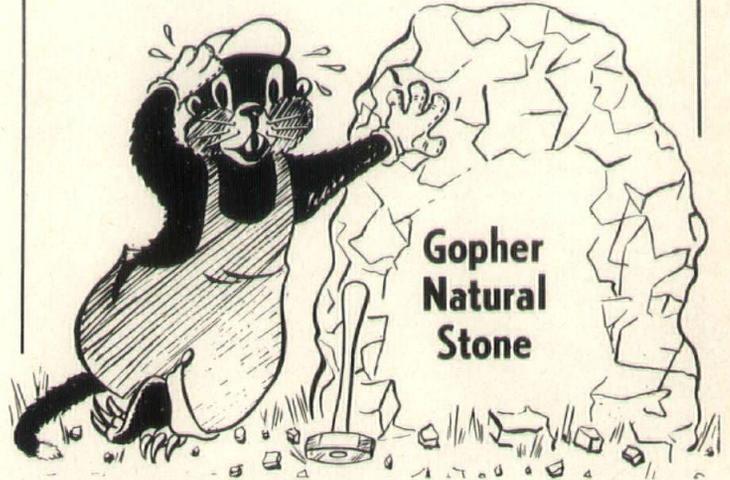
More than 170,000,000,000 gallons of water are withdrawn each day for all U. S. uses, which is 15 per cent of the total water discharged into the sea during an average year! In addition, 15,000,000,000 gallons of sea and brackish water are used for industrial cooling uses.

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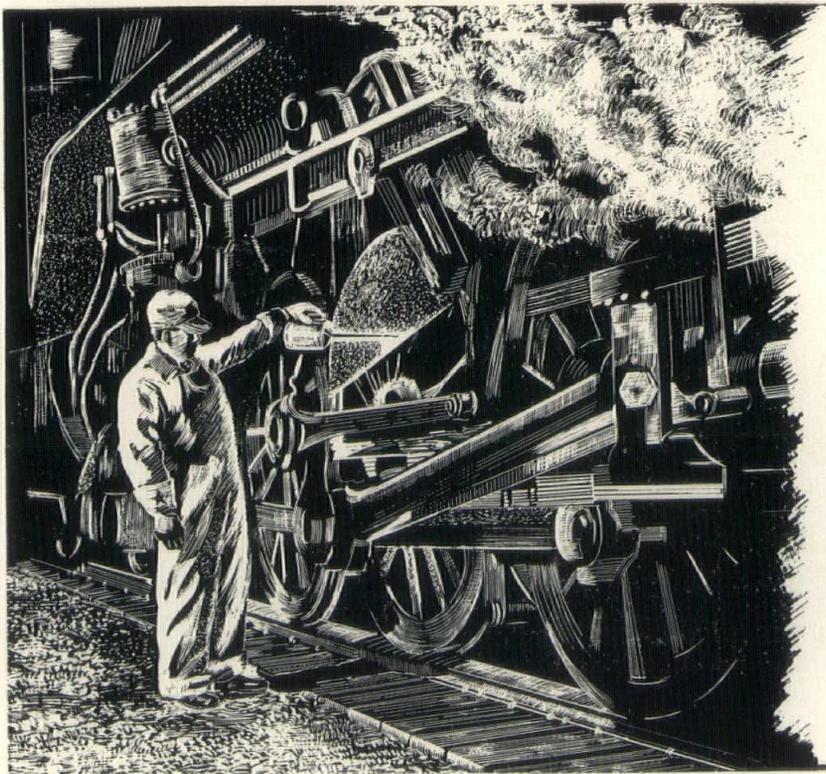
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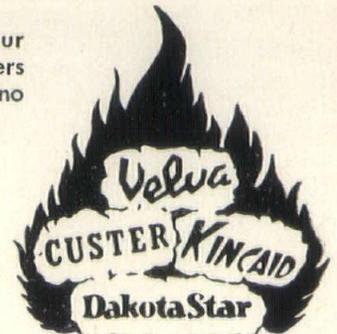
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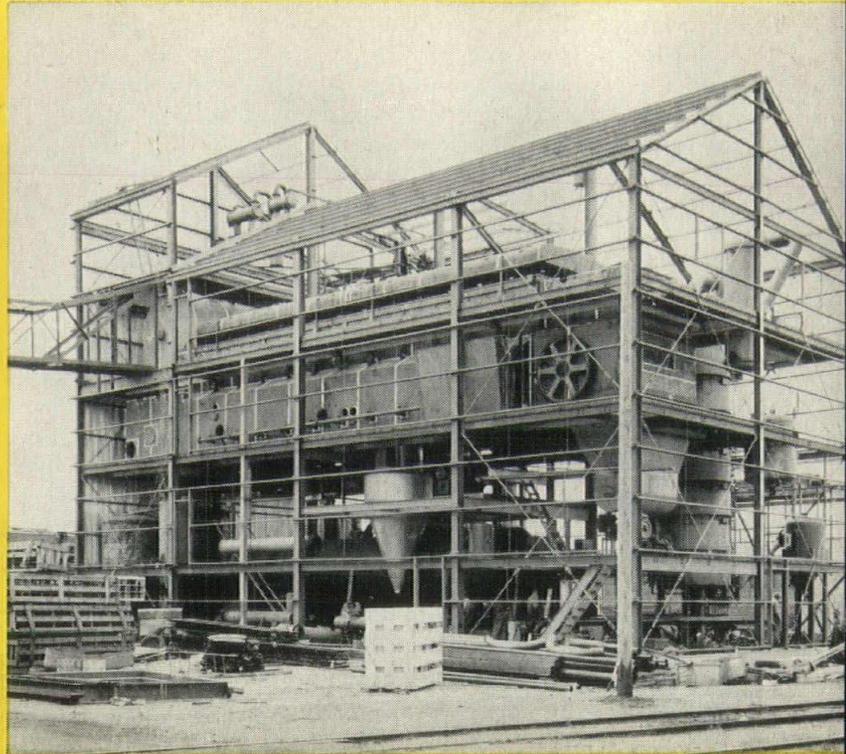
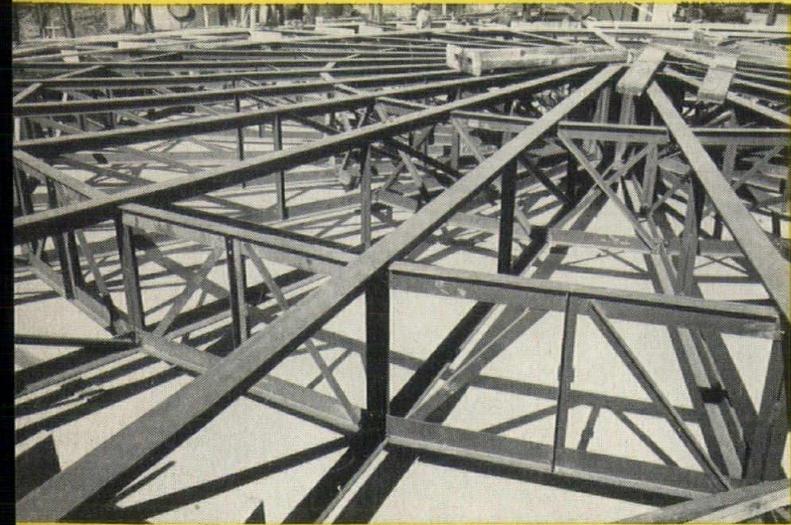
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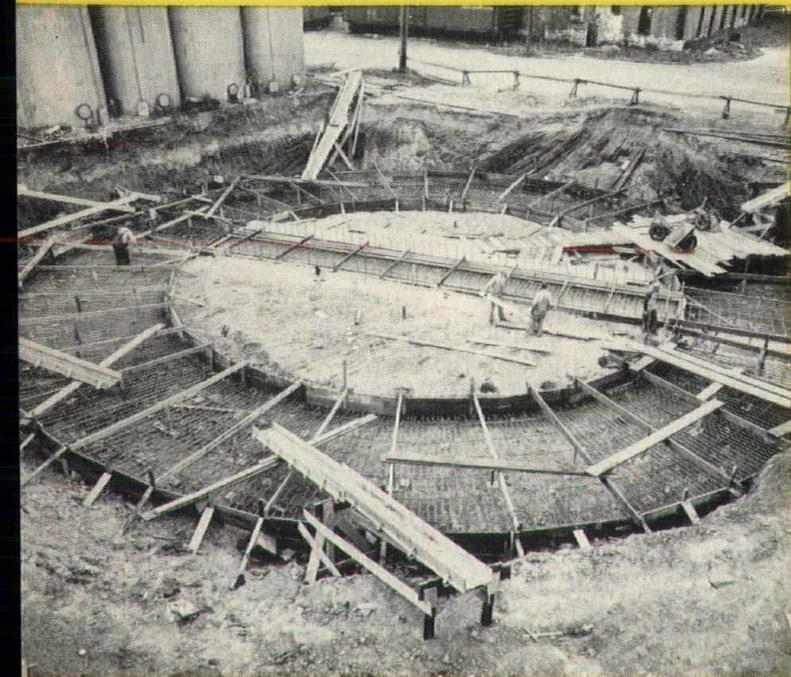
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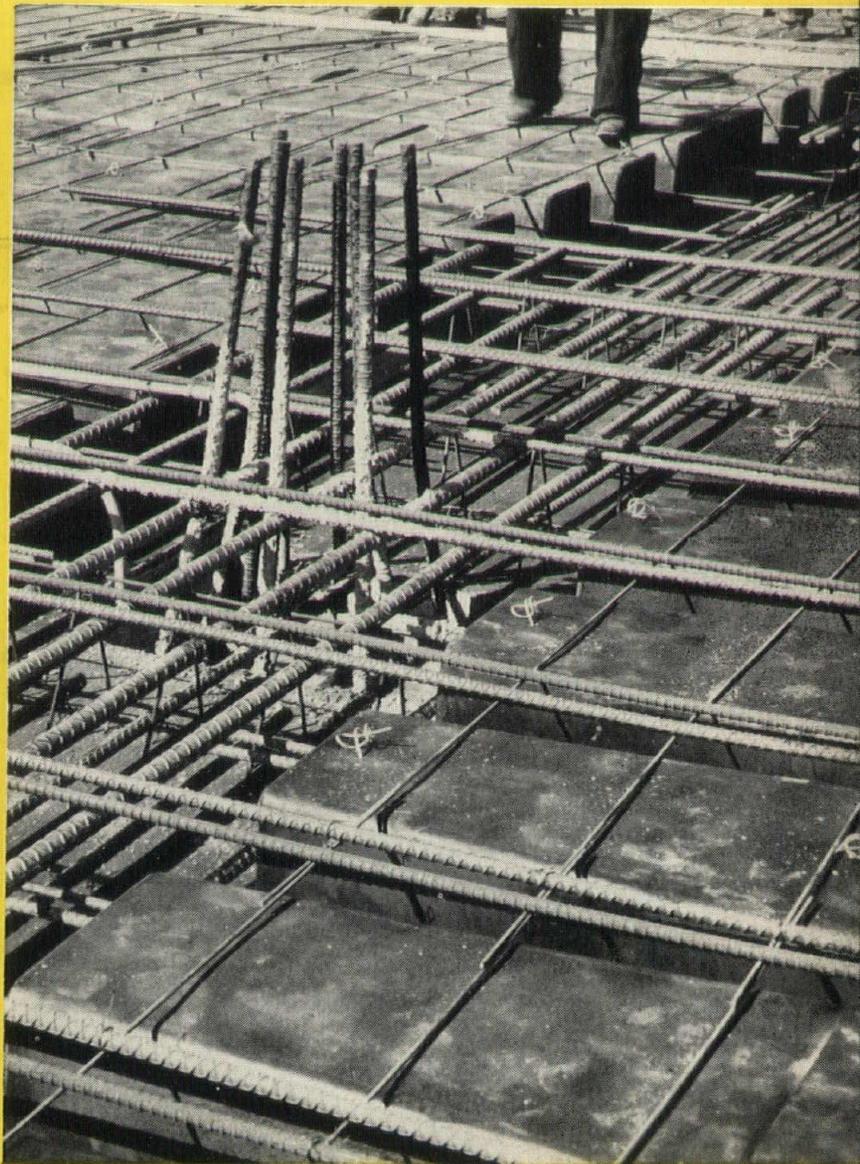
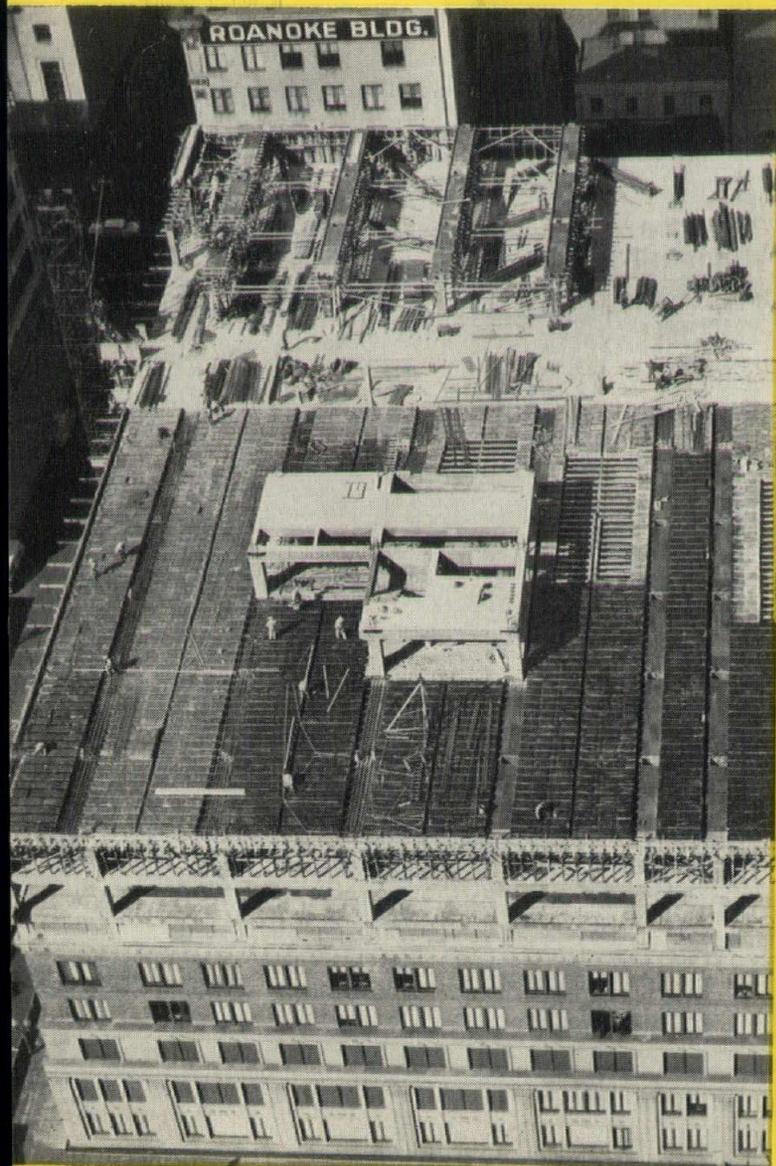


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“SEDITIONS” *(not related to things seditionary)*

Edited by William Gray Purcell

◆ LIBRARY AS OPERATION ◆ *and the im-mobile un-student*

NORTHWEST
ARCHITECT:

I very much enjoyed the recent issue of NORTHWEST ARCHITECT with its new concept of the mobile library. Here, at Yale, the librarian of Sterling Memorial Library (Yale's Gothic book-store-house) is upset over the lack of interest which students show in their library. He complains about it in the *Yale Daily News*. It seems that few students ever bother to go up (you take an elevator) into the stacks to just browse around. Our collections of fabulous books simply do not mean much to the student. Little does he care about the fascinating material asking to be discovered.

By browsing, a couple of years ago I came across *The Western Architect* of 1913, *Inland Architect*, *The Builder*, etc., and discovered so many things! . . . and actually this was what led to interest in the “Chicago School” and the pioneering work in the Midwest and Far West so many years ago. There is no other source for this material, no comprehensive book ever having been written on it.

Sanford T. Meech

◆ ORDEAL BY AUTOMOBILE ◆

How Far to “STOP”

I quote from the letter of a businessman in good health:

“Minneapolis, September 8, 1953:

“I drove downtown (from Lyn-

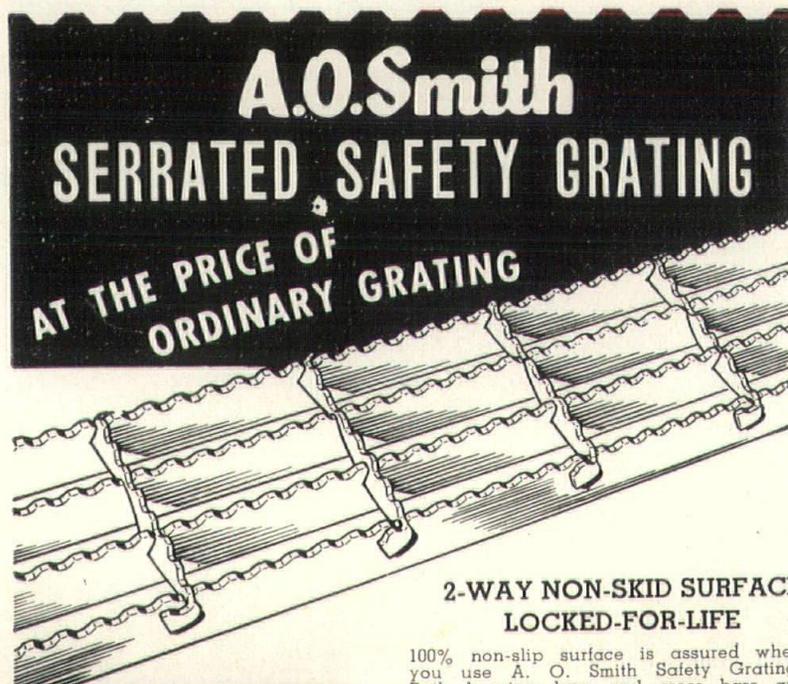
dale and 26th) first time in a month and I couldn't get back out of there fast enough!” How much of this man's business did you lose, Mr. Merchant—and will keep on losing? Our “Centergreen Gardens” proposal is unique because while operating as a general *public* benefit enterprise, it, at the same time, benefits, even more the *private* owner of income real estate and the independent enterpriser in non-monopoly merchandising.

“HISTORY IS BUNK”

Too often it is just that

Generations of very competent men, through all the past, helped each other move the world along to where it now is. But misinterpretations of history obstructed the right use of ancient know-how. As a result many professional learners and university graduates, men of intellectual skills, still do not know true architectural history. Exactly because they do not, they are today trying to move the world with excitement and shock. Others, more sincere, are afraid of history as it concerns architecture because they fear it will taint their personal style in design, that critics will scorn them. They fear to be called some sort of copyist. But the very newest works are also history the moment after they come to exist. One cannot escape history by closing his eyes.

So we must make the most complete use of all the experience records that can be made to serve. Those records remaining to us from the near past or the far are only useful to the extent that we can discover the thought, primal, flush or ebbing that made them *as they were when new*. The skill-tempered hand and honest heart simply couldn't copy anything—adventure presses too joyously within. A creative artist could never get stuck in the mud of his own information.



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◆ WHAT IS ARCHITECTURE? ◆

*Appliqué or integration
Geared thought or playing it right*

During World War I you will remember that in Boston Harbor we captured the Kaiser Wilhelm der Grosse the very first day. It was — or “she” was or maybe “he” was — the largest German passenger ship. Our first necessity was to re-build it into a troop ship.

They called in a number of contractors, ship builders and naval industry executives and said to them, “Now here, we’ve got to remodel this ship so as to carry three times as many troops as its present normal passenger complement. How do we do it? There is no time for plans or specifications or taking of bids. Go off by yourselves for two hours; come back with a recommendation. Say what you propose to do, how long you will need to complete it, what materials you need for the job and how much it will cost.”

Each one returned with a different idea and the time needed was to be anything from four or five weeks to three or four months. The cost estimates varied enormously.

One of the contractors sat there quietly, didn’t say much; the government chairman finally said, “We haven’t heard from you. What have you got to offer?”

The man replied, “Well, . . . I’ve been kinda thinkin’ it over. I propose to handle this so it won’t cost you a cent, no materials needed, we can do it right here and now, it won’t take any time.” They all looked a bit superior. He said, “Just sleep ’em in three shifts.”

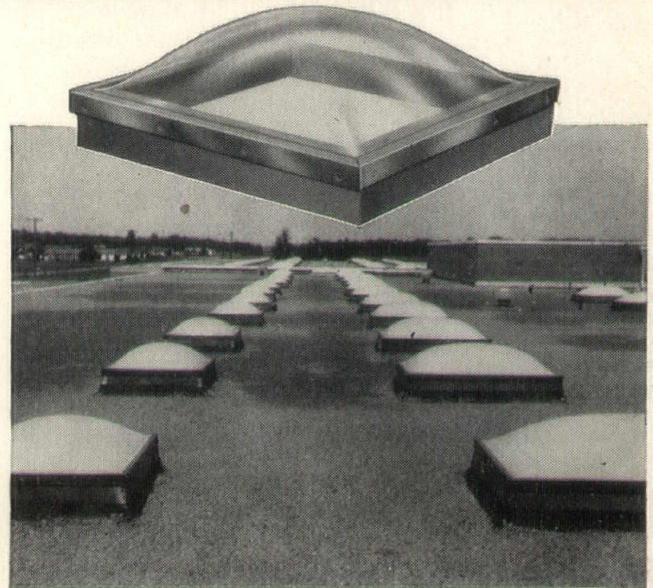
Now, even since that time I have kept telling this story, to audiences, to students, to anybody I could get to listen to me because it shows vividly what I think is needed in all the new problems of today. People are spending an enormous amount of time and thought in discussions which range up people with conflicting opinions. They get into arguments where they stand up for their solution as the only way that the thing can be done.

I believe that all these arguers are just enough right to blind themselves to the fact that each is as wrong as the rest. It will come to be seen that the thing to be done was not what

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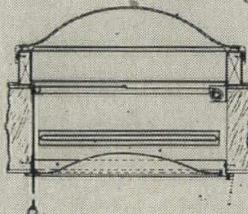
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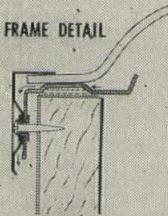
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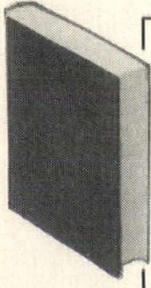
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Includes a dictionary defining words and terms (with many illustrations) to enable anyone to understand and use the basic elements of mechanical drawing.

With this book the beginner covers the entire range of drawing from the simplest blueprint reading and sketching to advanced machine, electrical, and architectural drawing. Besides this you see how to handle other types of graphical presentation such as schematic diagrams, charts, maps, graphs, and the like — so important in making masses of statistical data intelligible through drawing techniques.

This book keeps the beginner's interests foremost in mind. Thus it begins with blueprint reading and sketching—things you'll catch onto most readily—before it proceeds to mechanical drawing. Drawing is presented as a living and useful language. The drawings given represent real projects and appliances instead of a series of meaningless objects meticulously drawn as plates. Originality is stressed throughout the book. Practically every section contains suggestions for original applications of the principles presented.

Machine parts that are presented combine to make useful machines rather than the usual unrelated shafts, cams, gears, etc. In handling these drawings you go through the production cycle much as it exists in the manufacturing industry today.

Drawings and other graphical representations include planning for architects, home owners, woodworkers, metal workers, electricians, as well as those who make their living at the drafting board.

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was under discussion at all but some wholly new approach that was simple, obvious, right, and from which the continuing results inevitably came to grow. Escaping from the brambles and swamps of controversy to see the living idea unfolding without any mentalizing is organic thinking — and the results of such thought-about-process, when crystallized into implementing tools and facilities, is organic architecture.

◆ PHOTOGRAPHY ◆

Pilot of Machine Age Art

While looking together at Ernst Haas's wonderful color photographs in *LIFE* for September 14 and 21, my wife said, "The photographers find meaning where it really is but painting puts some where it may, or may not, be."

This seemed to me a chapter in nineteen words on the difference between the merely "modern" and those living patterns and forms coming from the heart of America as recorded in Carl Sandberg's "The People — Yes!" In uplifting for

either brains or brotherhood, "you got'a take a-holt low-down and lif with what God gave you."

◆ TO JOAN AND NORMAN ◆

Studying in Japan

Took me forty years of drawing and painting to find this out.

The conditioning a student of architecture gets in the science of Mongé (who invented descriptive geometry) fixes his work as a painter to some aspect of the picture plane. Usually his compositions come back to straight rectilinear projection on one plane; at the best it's a procenium scene in a frame.

Now it seems to me the big thing to enjoy in the Japanese world is all the ways that the graphic arts have *escaped* from the "frame," the plane and the 30" x 40" rectangle — not to mention perspective which never bound the imagination of the Japanese painters. They paint on any texture, on whatever form of surface comes under hand, and gladly accommodate the most varied and capricious boundaries.



Inspect this display of 61 different Artstone colors exposed in 1938 for weathering observation at roadside in New Ulm's industrial and railroad district.

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I don't know how "Western" painting can escape the "frame" — perhaps only through painting upon some sort of an architectural-sculptural-stage-set assembly. But all this time we have to be sure to get rid of the "exhibit" idea. Setting up a contrapuntal mock-up of inter-related forms and then painting on its many surfaces, that isn't the solution either!

◆ TO DR. LESSISMORE ◆

It's in "the book" — so what?

"Can the mystery of the forest be expressed by measuring the height of the trees?" asks the French musician, Debussy. How "pure" is a meadow? How geometric is the rain? How logical are the Psalms?

◆ "RICOCHET LOVE" IN ARCHITECTURE ◆

*Experience must bounce,
from Life to Yourself
from You to Your Work
from Your Work to a Next You*

When the great French sculptor, Rodin, made the bust of George Bernard Shaw he laid him flat on a couch. Rodin himself lay on the floor, bent over Shaw, sighted him from all distances, studied his head from every possible angle. One of the ancient masters of sculpture had his model stand in a tank of water, varying the level of the water in order to study the body contours at the successive levels. Sherry Peticolos, Los Angeles sculptor, places the model so the students can see the masses and contours from a balcony directly above.

◆ WHAT IT DOES TO YOU ◆

That is Architecture

Lytham, Lancs., England
31st January, 1954

NORTHWEST ARCHITECT
Sir:

I was greatly pleased with the current issue of NORTHWEST ARCHITECT containing the splendid idea based on the old London Crystal Palace. I remember singing there in my 'teens at a huge gathering of choirs, a function connected with the Festival of Empire. It was a thrilling day for me. My serious interest in music

ARCHITECT

began with that event. This "Architect" is *the* magazine. There is always something well worth remembering in its pages. All I have shown it to have been most interested.

D. Nadin

HALDEMAN-LANGFORD INTRODUCES NEW BENCHLESS PORTABLE TABLE

A new folding, portable table for use where occasional need arises for

added table space and for installations where multiple use of space is desired has been announced by Haldeман-Langford Mfg. Co., St. Paul, in the Erickson Fold-A-Way Benchless Portable. The new model has all the outstanding features of the other members of the HL Erickson line.

The tables are available in four models, two heights and two lengths and full details can be obtained from the company at 2580 University Ave., St. Paul 14, Minn.



Ideal for use in Corridors and other large areas of Schools, Hospitals and other Institutions.

This new enlarged shape covers more area per piece and simplifies installation. It has recently been added to the versatile ROMANY line and possesses all the high quality characteristics that have made ROMANY Tile preeminent in the building field.

The "hard as steel" glaze and rugged buff body defy wear and this 6"x9" tile is recommended for use wherever a sturdy tile is needed.

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Minneapolis A.I.A. and Producers' Council Jam Huge Fun Into Annual Picnic & Golfaroo



Golf for those so inclined and a picnic for both golfers and those not so inclined were jammed into a day of fun and frolic for members of the Minneapolis Chapter, American Institute of Architects, and the Producers' Council. The day was perfect, though there were those who complained of the "heat," and our pictures on this and following pages give some idea of what went on and who did it.

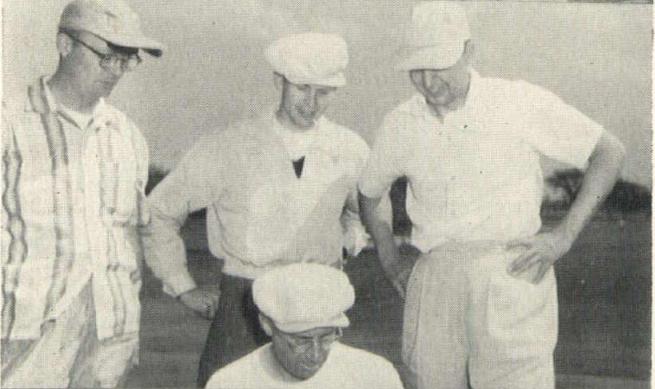
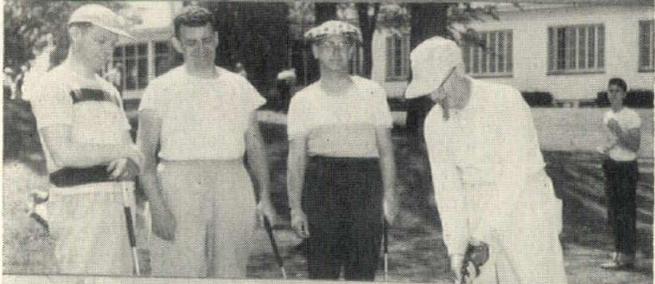
The picture at the top of this column shows Vern Larson (left), president of the Minnesota-Dakota Chapter of the Producers' Council, presenting the Northwest Architect Trophy to Clair Armstrong for his low gross score of the day, an 82, while Horace Matson, golf committee chairman, beams approval.

Blind bogey prizes were won by Vern Larson with a 72, Al Wegleitner and Arnie Hartwig, with 78's.

Other golf pictures at the left show (in each instance reading left to right, starting with top picture)—a club conference among Merle Abbott of Mortensson and Abbott, Jack Homme of Haldeman-Langford, and N. H. Mortensson—joke and refreshment among John Paul of Casewin Co., Bob Hanson, Jack Wilwerding and Jim Horan of Magney, Tusler and Setter—the cleanup on No. 10 with Al Hammerstrom of Crane Co., Sam Dittenhoefer of Kimble Glass and Bernie Mulcahy, Jr., of Halsey W. Taylor Co.—watching the tabulations, Bob Hauenstein, Harley Johnson, Jack Bissell of the Overly Mfg. Co., and Vic Gilbertson, president of the Minneapolis A.I.A. chapter—checking in that last putt are Bob Hanson, Don Hustad, Chuck Rice of Libby-Owens and Jack Wilwerding.

Our pictures at right—Wow, look at the special rain gear worn by Jack Bissell and Vic Gilbertson making snide remarks about the sunny weather—"Waaaaaatchit," say W. C. Hamilton of Chamberlain Co., Austin Lang of Lang and Raugland and Al Fischer of Overly Mfg., to Cap Souders of Lang & Raugland as he putts—a little practice at start found together Al Wegleitner of Hubert Swanson, Larry Reak of Natco Corp'n, H. V. Matson of Hubert Swanson and Vern Larson of Kimble Glass—interested in something (could be a score?) are Jim Horan and King Skold of Magney, Tusler and Setter, Andy Albert of Crown Iron Works (the chap down front) and Carl Fogelberg of Reynolds Metals—and last, but not least, is the aftermath in the locker room among Gordy Matson, Norm Nelson of Otis Elevator and Jim Burnet of Lang & Raugland.

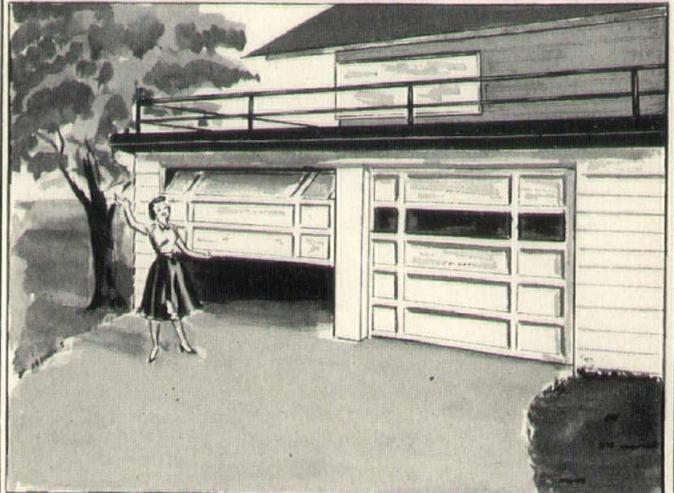
For additional pictures now turn to pages 42 and 44, where these and others carry on in the true traditions of this great annual outing!



ARCHITECTS!

add BEAUTY with

Crawford MARVEL-LIFT Doors



now made to
LAST EVEN LONGER

GENERAL SPECIFICATIONS

Upward acting doors shall be Crawford Marvel-Lift Doors, as manufactured by the Crawford Door Company, 401 St. Jean Avenue, Detroit 14, Michigan, and of the size and design as shown on the plans.

WOOD:

Wood sections shall have stiles and rails of vertical grain Douglas Fir, hardwood dowelled and steel pinned, water-proofed glued. Rails to extend full width of door. Panels to be of three (3) ply laminated fir $\frac{1}{4}$ " exterior plywood manufactured by the hot plate process with phenolic resin glue.

HARDWARE

Hardware shall include safety torsion springs on a continuous shaft across full width of door, rustproofed aircraft type cable (chain not permitted), rollers having a minimum of ten (10) ball bearings $\frac{1}{4}$ " diameter with both inner and outer races of hardened steel (use of roller shaft as inner race will not be permitted), bottom corner brackets mortised under bottom of door and of sufficient height to be secured across both rail and stile. Doors over 12'6" wide shall be additionally reinforced with suitable horizontal trusses to prevent sagging when open. Doors over 16'0" wide shall have suitable support to prevent sagging when closed.

GUARANTEE:

Doors shall be guaranteed against faulty or defective material or workmanship under normal operation for a period of one (1) year.

Send for free booklet "Crawford 60 second Door Selector."

This booklet will aid you quickly in selecting and specifying all types of doors.

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St. Paul, Minnesota

GA 4807

The Golf's Over! The Picnic's On!



"After the golf is over" may have been tuned to the music for the old ditty of "After the Ball Is Over" by some of the chaps shown in our A.I.A.-P.C. golf-picnic pictures at right. Anyhow, they are (left to right, top down)—S. D. Leach of Magney, Tusler & Setter, Howard Cobb of Armstrong Cork, Sid Page of Frank Adams Electric and John Anderson of Hills, Gilbertson and Hayes—John Magney must have told a scorcher for Norm Nelson of Otis Elevators, John Newhouse and Con Aas of Northern States Power and Gordy Matson—we'd love to know what the remarks were that were being passed in this picture so packed with human interest showing Clair Armstrong and Vic Gilbertson apparently taking it from Dave Griswold and Jim Brunet—Loren Abbett and Don Hustad, Merle Else and Don Hood of Electric Power Door Co., chat when the golf is done—Sweated up and apparently full of current golf stories were Gil Langseth, Al Fischer of Overly Mfg., and George Stertz of Magney, Tusler and Setter.

Now turn to page 44.

Plan . . . prepare . . .

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Brunswick School Furniture

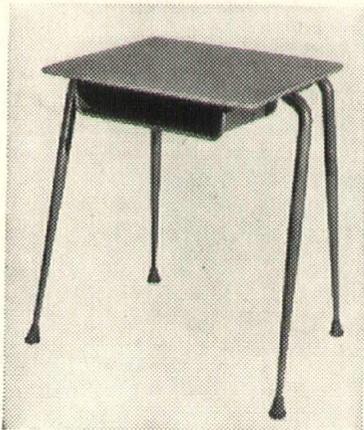
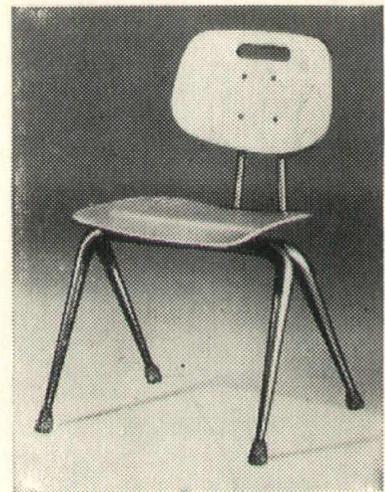
THE ONLY REALLY NEW REVOLUTIONARY DEVELOPMENT IN CLASSROOM DESK AND CHAIR SETS THAT SET NEW STANDARDS IN DESIGN . . . COMFORT . . . FLEXIBILITY.

Now Brunswick offers school room furniture that is movable, stackable, nestable and groupable; creates free space quickly, simplifies storage, facilitates maintenance.

Interchangeable parts and extra, useful attachments make Brunswick furniture adaptable to any classroom need.

What's more, the Brunswick stacking chair through attachments simply applied makes four units out of one—chair becomes an armchair, a tablet armchair or a chair desk.

Built for years of wear and long lasting beauty. Chair seats and backs finished in red, green, yellow or natural maple.



Versatile Desk, Stacks and Groups For Greater Classroom Flexibility.

Complements Any Teaching Technique. Movability fits into any classroom activity. Performs as either a desk or table.

Stacks Out Of The Way—quickly, easily to free area.

Groups Into Any-Size Tables—conform to any need from a 2-pupil conference to a large mural-making project.

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Domestic and Imported Marble

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TYPES

Built Up Asphalt
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House Roofing

Any Job Anywhere

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GA rfield 9496 or GA rfield 9497



19th Hole, etc. . . .

On the 19th hole and beyond were the chaps shown in the pictures on these two pages. In the usual order, at left—"Ahhhhhhhhhhhh," is the word for it among Austin Lange, an unfortunately unidentified gentleman, Ben Meltzer, Cap Souders, Andy Albert, Loren Abbett and Howard Cobb—The lightup and talkover by John Torseth of Armstrong & Schlichting, Jim Coulter of Granco and Keelor Steel and Merle Peterson of Magney, Tusler and Setter—relaxed were C. W. Farnham, H. T. Nyberg of Crane Co., and Curt Johnson of Pella Products—another joke session, this one among S. D. Leach, Andy Albert, L. C. Halverson, J. J. Bofferding and George Melcher—Jack Homme and Duke Haldeman of Haldeman-Langford were kidded after the round by Cap Souders—quietly relaxed were George Melcher of Flour City Ornamental Iron, Jack Harris of Alcoa and Hans Larson.

Now, turning to those on the opposite page, we find these—a serious moment for C. H. McFarland of Walter Butler Co., and Al Fisher of Hills, Gilbertson and Hayes—a pleasant moment for Sam Dittenhoefer, John Sahlman, Arnie Hartwig, Jack Homme, Al Wegleitner and Larry Reak—tea? . . . and crumpets? . . . anyway, together over the stuff were Bill Bloomquist of Pella Products and Emil Goodland of Larson and McLaren—then we held for the moment Vern Larson of Kimble Glass, Don Forfar of Brandhost and Leadholm, Bob Reid of Fiberglas, John Telfer of Crown Iron Works and Ivan Spurlock of Fiberglas—Bernie Mulcahy, Sr., of Bell & Gossett Co., and Al Hammerstrom of Crane Co., stopped during a chat to smile for us and so wind up a perfect golferoo and picnic.

See you there next year!

Asides:

They don't wait to be kicked

QUOTING from "The Heathens," by William Howells, publ. by Doubleday.

"The Congolese natives are agriculturalists. . . . after a number of years, the villages move, because the soil used for gardens roundabout becomes exhausted. . . ." etc. etc. pp—174.

On vegetarians:—"All apes are primarily vegetable feeders. Gibbons may supplement their diets with eggs, insects and various small animals. They eat more than 40 varieties of wild fruits; 10% of their diet is leaves, flowers, buds, seeds.

"The Gorilla, is herbivorous or frugivorous."

Food note from *London Daily Mail* (White wisdom!) "Samuel Taylor, 80, of Isleworth, gave the secret of his long life: "Drink daily with meals, a brew of stinging nettles, dandelions and fresh green shoots of a may bush." Sounds very good, stings strained out.

Will see you in October for the Regional and State Society meetings in Rochester!



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Box and Lumber Co.

76 W. Indiana Ave., Saint Paul



Spring Stag Puts More Zip Into Steps of St. Paulites



A new zip was introduced into the stride of architects and others in the construction industry in St. Paul when the St. Paul Builders Exchange held its annual spring stag in the Prom Ballroom on May 6. Our photographer was there and let his lens roam the field, with results shown here.

More than 600 members and guests attended to take part in the eating and entertainment provided by the committee made up of Russ Gunther, chairman, John Matthews, Harley Turner, Evar Cedarle, Jr., John Walsh, Gil Holm, George Senkler, Al Arr'goni, Whit Boardman, Bill Rezanka, Rollie Kahnert and Harold Peterson.

Among the sponsors of the party were Crown Iron Works, Haldeman-Langford Co., Hauenstein & Burmeister, Minnesota Fence Works, Paper-Calmenson, C. W. Olson Mfg. Co., Steel Structures, Inc., Stremel Bros. Mfg. Co., and St. Paul Structural Steel.

Some of these who were present consented to pause in their fun as our camera shutter clicked and we reproduce their pictures here. In

each number identification the men are identified from left to right.

1—Joe Witwicke, Jr., manufacturers' agent, Wally Ek of Gopher Stone Co., Dick Steenberg and Bud Charland of Capitol City Stone Co.

2—John Rupert of Corning-Donohue and Sid Stolte, A.I.A., president of the Minnesota Society of Architects.

3—Louis Villaume, Frank Villaume, Jay Ledy and Ollie Anderson of Villaume Box & Lumber Co.

4—E. W. Folsom of Twin City Brick Co. and Carl Buetow, A.I.A.

5—Sam Silver and Frank Lamb of Silver Lamb, Inc., and Louis Den Boer of Den Boer Construction Co.

6—Bill Meyer of Minneapolis Builders Exchange secretary, Fred Strauss of Central Building Supply, Emil Berglund of Berglund Lumber Co. and Bernie Koneczny of Central Building Supply.

7—Paul Lang, Andrew Demcak, Bill Mateer and Al Sorenson of Villaume Box & Lumber Co. with two unidentified guests.

8—Cy Sheehy, contractor, and Bud Harris of Paper Calmenson Co.

9—Walter Baumeister and Fred Gardside, Swift & Company, with members of Swift & Company purchasing staff.

10—Harold Anderson of Master Builders, Gene Valentine, Frank Lapinski and Otto Zimmer of Villaume Box & Lumber Co., with Joe Shiely second from right.

11—Barney Huberty of Roe-James Glass Co., Ralph Kuehn of Johns-Manville, Al Ingvaldsen of Lampland Lumber and Joe Johnson with unidentified guest.

12—Roger Jordon and Les Juehrs.

13—E. H. Gardner and C. W. Zimmerman of Ellerbe & Co. and Stan Beckstrom and L. C. Lasch of The Hustad Co.

14—Norman Nodmeyer, Erick Tysk and Jim Jackson of Villaume Box & Lumber Co., with Jim Anderson.

15—Bob McGee, A.I.A., Carl Lein, J. L. Hughes and Bob Loeffel.

16—Ray Thibodeau, John Schmid, Paul Steenberg and Hale Cavanagh.

17—Floyd Anderson, John Telfer

ARCHITECT

1 Problem

A CHURCH:
How to get MORE use
from PRESENT space . . .



Architect:
Ingemann &
Bergstedt

Contractor:
J. S. Sweitzer & Son,
Inc.

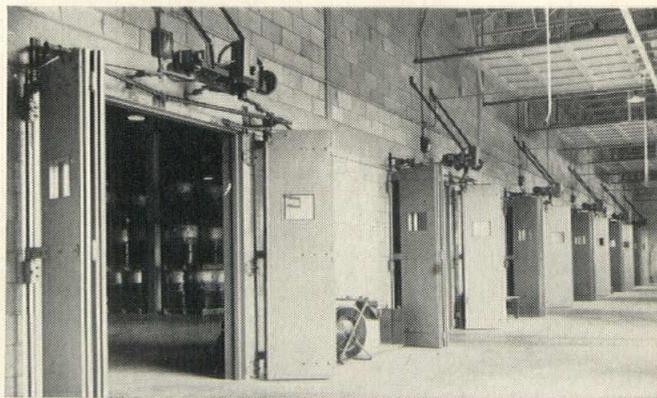
SOLUTION . . . FolDoor . . . the "movable" wall that gives you space according to your needs! FolDoors installed in St. Paul Evangelical & Reformed Church, St. Paul, provide flexible facilities for any activity. The doors glide easily, silently, closed to divide the room into two or several smaller class or conference rooms.

Now, FolDoors are insulated with fire resistant "Foldasorb" . . . an exclusive new "sound retarder" . . . one thickness has as great a sound retarding value as two thicknesses of inflammable sponge rubber . . . yet does not increase stack dimensions when open. FolDoors are available in any size and type to fit any opening . . . made of durable, washable, Vinyl coated fabric over rugged, rust-proofed steel frames in a wide selection of distinctive colors to blend or compliment any decorative plan. Complete with cornice.

MEMBER NATIONAL PRODUCERS COUNCIL

2 Problem

AN INDUSTRIAL PLANT:
How to open and close big
loading platform doors-FAST!



Architectural Staff:
Minnesota Mining &
Mfg. Co.,

Furnished & Installed
by Electric Power
Door Co., Inc.

SOLUTION . . . Electric Doorman Fast-Acting Loading 4-Fold Platform Doors. 30 of these 8'x8' steel frame, flush, loading dock doors were installed for Minnesota Mining and Manufacturing Co., St. Paul, providing fast, safe, sure open and close action.

Electric Doorman Systems are application engineered for the job! . . . operate as safety weather barriers often eliminating the need for unit heaters at the doors. Always visible to the user, the doors clear opening . . . cannot be jammed shut.

Consult Electric Power Door Co.

Specialists in powering all types of Industrial, Commercial and Residential doors and gates. WRITE FOR CATALOG NO. 1000 showing the ELECTRIC DOORMAN SYSTEM that can solve your problem!

ELECTRIC POWER DOOR CO., Inc.

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and Warren Wold of Crown Iron Works.

18—Frank D. Clark, A.I.A., Cliff Comfort, Ruben Phelps and guest.

19—Harold Anderson, Lew Midler and Joe Shiely, with other guests.

BELL & GOSSETT ANNOUNCE FREON CONDENSERS

Bell & Gossett Company has announced a new line of A.S.M.E.-constructed and stamped extended surface freon condensers, with two styles of units. The Model CFG Shell & Coil Condenser is designed to fill the need for a low cost condenser in small tonnage installations while the CRF model is for larger installations.

WESTERN MINERAL NAMES CARLSON AS PLASTER CONSULTANT

Homer Carlson has been named by Western Mineral Products Company, Minneapolis, to work with architects and others on plaster and acoustical plaster problems of their projects, with particular emphasis on machine application.

A graduate of the University of Minnesota and a former employe of the Carney Company, Mankato, and U. S. Gypsum, Mr. Carlson went to Western Mineral from American Bildrok Co., Chicago. He will headquarter in Minneapolis.

"Machine application has a number of advantages," he said. "Jobs



Mr. Carlson

are completed faster and there is a chance to secure various finish textures by altering air pressure, motor speed and distance from nozzle to work. The machine also opens up an entirely new field for lightweight insulating concrete curtain walls sprayed in place."

INTERNATIONAL UNION OF ARCHITECTS ENDORSES MODULE

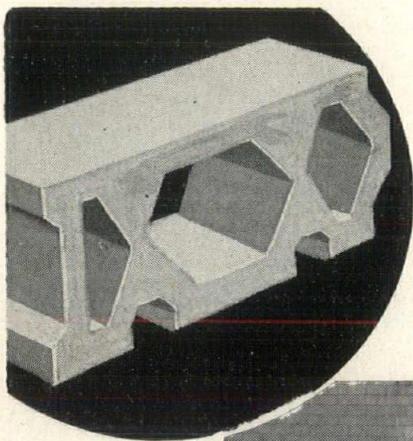
The International Union of Architects has endorsed the 4-inch module which is generally accepted today in the United States and other countries whose architects and builders are using modular co-ordination in their work. The international group met in Lisbon, representatives from 37 countries, including the USA and USSR, being present. The resolution endorsing the 4-inch module was passed unanimously and stated:

"This congress, recognizing that modular co-ordination has proved to be an essential condition for the industrialization of building, reaffirms the position adopted at the congress in Rabat; recognizes that the module of 4 inches or 10 cm is already the one most widely used in most countries and has proved itself to be the proper increment of building dimensions (and) recommends:

"(a) that IUA adopt this module (10 cm or 4 inches),

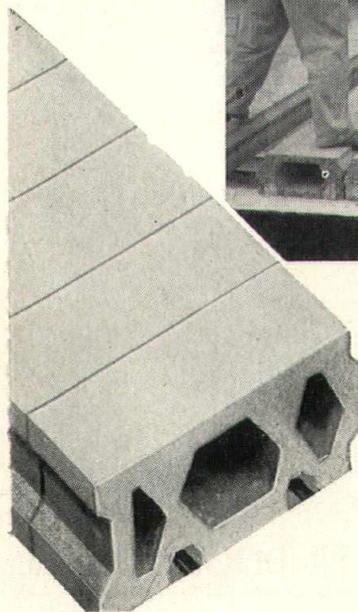
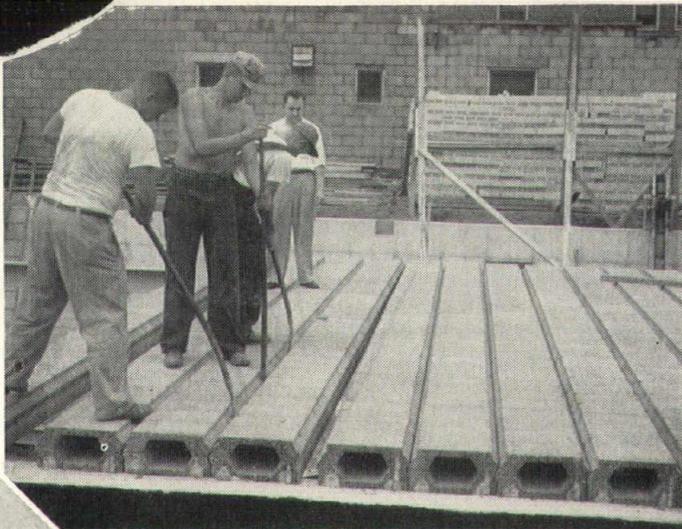
"(b) that architects who have not already adopted this module should do so and should use their influence to extend its use through the building industry,

"(c) that the international Standards Organization should be re-



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quested to take steps to implement the adoption of the 10-cm or 4-inch module throughout the world.

PRODUCERS' COUNCIL MEETING HEARS FHA FACTS

Keen interest was shown in the Federal Housing Administration when FHA's acting administrator, Norman P. Mason, addressed the 33rd annual spring meeting of the Producers' Council in Boston, June 14. The council heard an "Appraisal of the Outlook for Construction for the Last Half of '54" in one of its early sessions, presided over by President Elliot C. Spratt.

Other speakers included G. Yates Cook, director of the department of housing rehabilitation for the National Home Builders Association, who discussed the free enterprise methods of cleaning up local slums, reconditioning old but structurally sound buildings and redeveloping severely blighted urban areas.

FIBERGLAS OFFERS CONSULTING SERVICE

Architects and others in the construction industry are being offered technical consulting services by a newly created Owens-Corning Fiberglas Corporation division with offices in New York, Chicago and Washington, D. C.

J. M. Briley, vice-president of Owens-Corning, said the technical services offices will assist in solution of design problems in the insulation of buildings, acoustical treatment, insulation of ducts, pipes and equipment and related problems. The services will not be confined to the cities in which the offices are located but will be available through local Fiberglas sales offices in principal cities.

Technical experts from the offices will also be available to conduct informational meetings, demonstrations and engage in group discussions. They will also help in writing specifications and in advising on compliance with government spex.

ARCHITECT

NEW GLIDDEN PAINTS HAVE RUST-INHIBITING FACTOR

Rust resistance combined with an enamel-like dried finish is offered in a new line of paints made by The Glidden Company. The line, called Nev-A-Rust, can be brushed or, when reduced, sprayed. The company said the new paint is particularly useful as a finish against the corrosive action of fumes and gases in and near industrial areas.

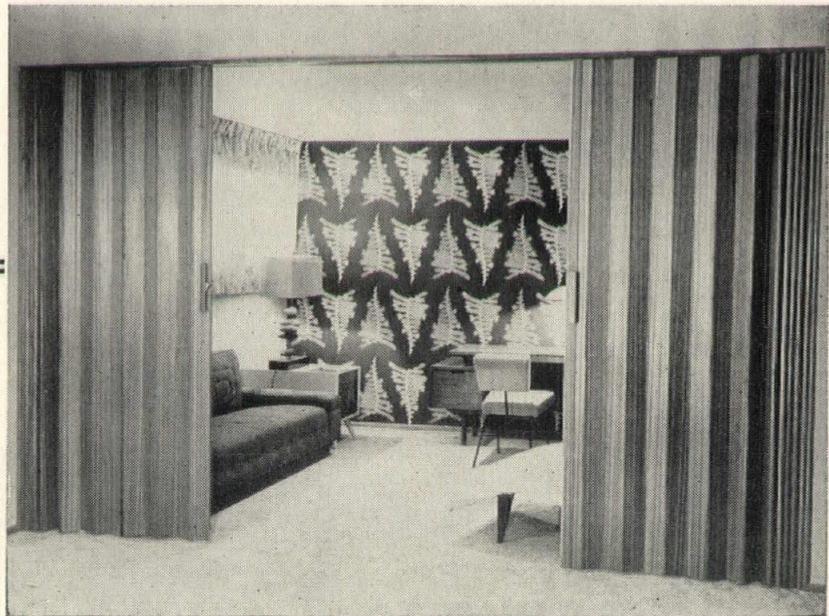
Nev-A-Rust is designed for field and shop coatings on structural steel but offers similar protection to any

metal surface. It is unaffected by extreme temperatures.

FAMILIES INCREASE

Since World War II the number of families in the United States has increased 800,000 per year, twice the rate of increase during the 1930's. This tremendous population increase means greater markets, more production of houses and consumer goods and hence more jobs.

Remember Rochester (page 8)



decorative
convenient
economical

Pella

WOOD FOLDING DOORS

With ordinary swinging doors, closet corners are hard to reach. Pella Wood Folding Doors give access to all available closet space. Instead of sliding or swinging out, Pella Doors fold back compactly. Ideal for closets, between kitchen and dining room, in bedrooms, between living and dining area. 3 standard paint colors, natural wood finish or unfinished. A complete packaged unit. Anyone can install. Economical . . . compare with prices on other doors.

Pella PRODUCTS

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68 5th Street N.
Fargo, North Dakota

SCHOOL PLANNING INCLUDED EVERYONE CONCERNED WITH NEW OMAHA STRUCTURE

No "ivory tower" project was the new Kellom Elementary School and Community Center in Omaha, which had so many fingers in the pie it couldn't miss filling a multitude of community needs to the satisfaction of the majority of those concerned with its use. The archi-

itects on the job were integrators of ideas and guiders of methods. The results were good; here are the details.

The \$1,500,000 school and community center accommodates 900 pupils from the kindergarten to the sixth grade and provides, as well, space and facilities for the various adult activities of the community.

In 1945 the Omaha City Planning Commission presented the idea for the institution and added,

"Here is an opportunity for the city and the school district to provide a combined school and recreation center, an open space that would be a real asset to the city, on a site of 15 acres, including a swimming pool and a playground close to town."

The Omaha school district and the city acquired the site; the parks and recreation commission planned recreational areas and built the swimming pool; teachers, parents and pupils joined with the architects and the builders in designing the new one-story structure, according to Dr. Harry A. Burke, superintendent of Omaha schools. Funds provided by the Omaha school district and the city paid for slum clearance, acquisition of the site and construction of the swimming pool and the building.

"The result is a fireproof elementary school plant which emphasizes function and makes possible a program of education and recreation designed for the Kellom community, for all age levels, adults as well as children," Dr. Burke said. The new school and community center replaced the original Kellom School building which was erected in 1892. The old building was razed and the site upon which it stood was regraded and landscaped.

For the pupils there are quiet corners in which they can read and study, paint, draw, sing or work as a group; a large school ground for play outdoors and a similar space indoors for use in inclement and extremely cold weather; lunchroom; library; audience room in which to view motion pictures related to the daily lessons or listen to good music, to play an instrument or speak before one's classmates. There is also a headquarters room for the safety patrol and places to store materials, equipment, wraps and other personal belongings.

For adults of the community, Kellom School provides space and facilities for evening recreation, adult education and for community meetings of all types, including dances and social gatherings.

FORMAN, FORD FOR GLASS



MODERN GLASS FRONTS BUILD BETTER TRADE FOR TOP RESTAURANTS

Forman, Ford & Co. has served the business community of this area for over 71 years. You can depend on Forman, Ford for expert workmanship, full cooperation and fast delivery from five convenient Northwest locations.

In building and remodeling, call on Forman, Ford & Co. for immediate quotations and prompt service on all glass requirements.



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RAPID CITY
GLASS CO.
308 5th St.

All rooms and corridors are acoustically treated. In a departure from conventional methods, the ceiling was installed on an inclined plane to accommodate clerestory lighting.

There are many satisfying and interesting aspects of the design of the structure. Two kindergartens are provided, each with its own entrances, toilets and play areas and facilities. Radiant heating coils warm the floors. The library is centrally located and contains furniture specially designed to afford healthful comfort while reading.

There are two centrally located storage centers and an inter-communication system throughout the building. The community unit contains a gymnasium, 55 by 90 feet, which will permit several groups to use the floor at the same time. The lunchroom with its folding tables can be used for dining and for community activities.

The auditorium seats 195 persons and includes a stage for small group activities; also in the community unit is a room in which are taught crafts and arts.

Light, ventilation and sound have received special treatment. Clerestories make possible adequate natural daylight. On the north, light is diffused in the classrooms from opposite sides through glass blocks.

For night use and for overcast days, artificial light of 50 foot-candles is provided by a fluorescent lighting system. Ventilation is supplied through the windows, with air exhausted both naturally and mechanically through the ceilings and corridor doors. Corridor lockers are ventilated by exhaust fans located above the ceilings. The structure is equipped with fire and automatic alarm systems.

The old and the new Kellom schools were named after John H. Kellom who came to Omaha from New York in 1857 and figured prominently in Omaha's pioneer educational affairs.

John Latenser and Sons was the architect and engineer.

ARCHITECT

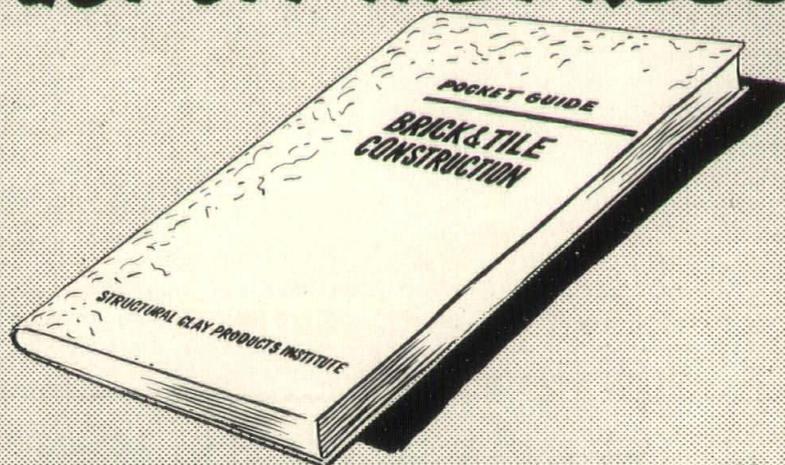
GROPIUS GIVES BASIC POINTS FOR INDIGENOUS ARCHITECTURE

The stunt type of architecture, the bizarre attention getter, leads not toward a sound and healthily growing indigenous style, Dr. Walter Gropius said recently. In discussing what can lie ahead of American and regional building designers, the former head of Harvard's Graduate School of Design who is now in private practice in Boston outlined "Eight Steps Toward a More Solid Architecture."

His formula:

1. Forget the battle of the styles and get to work on the development of architecture for better living.
2. Design buildings to accommodate the flexible, dynamic features of modern life—not to serve as monuments to the designer's genius.
3. Diagnose the client's real needs and give him a consistent building.
4. Gain competence in all fields of building to earn the client's confidence and the right to captain the team.
5. Make better use of science and the machine to serve human life.
6. Seek genuine regional expres-

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A PARTIAL LIST OF CONTENTS

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3. Properties of Products.
4. Mortars for Unit Masonry.
5. Properties of Walls.
6. Design of Walls.
7. Construction and Maintenance.
8. Reinforced Brick Masonry.
9. Floors and Roofs.
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Structural Clay Products Institute

Region 6

Ames, Iowa

sion—but not by relying on old emblems and local fancies.

7. Extend architectural education into the field to obtain a better balance between knowledge and experience.

8. Add community activity to office activity to become a leader as well as a servant.

The Gropius feature was a recent inclusion in the magazine, *Architectural Forum*.

MOTELS NEAR 50,000 MARK

Growth of the motel business since the war has been such that these transient residences are of considerable importance to architects in areas where heavy tourist and transient traffic exists, like the Northwest area. This growth has brought the total of existing motels nearly to the 50,000 mark.

This growth has also brought more design into creation of these temporary residences. The older row of cabins has developed into some of the finest buildings conceivable and many architects have been called

upon to plan elaborate layouts. Many motels are grouped into chains under central managements and the designers create their patterns on basic lines for modifications in different parts of the country.

The design problems involved are new and old. To the old problem of making the structures pleasing to the eye and speaking of comfort without undue expense and of blending them into their surroundings harmoniously has been added the problems of accommodating the cars of the visitors, of plotting the layout so its sprawling nature is nonetheless readily available to management, supervision and facilities of the structures. In this the architect finds a definite challenge, a new set of problems to solve and in many instances a quite ample reward.

INTERNATIONAL TRADE WITH THE BRAKES SET

Sometimes there appears out of the smoke of hulahaloo about building up our foreign trade a small item which stops you in your tracks

with the realization of what is wrong with this economic machine—the brakes are set! In this connection a recent bill of charges for a relatively small shipment from a company in St. Paul, Minn., to Quito, Ecuador, is as illuminating as the theater's spotlight.

The shipment involved a product whose at-plant cost was \$207.42. There was a shipment cost of \$10.21 to get the material to New Orleans, port through which it was shipped to Quito. The cost of getting the shipment through the various official and other hands, aboard ship and to its destination was \$54.93 and the bill of charges' breakdown of that cost was amazing. Here it is for your study as to why the brakes are smoking on this international trade machine . . .

Quote:

Messenger service—\$1.50

Export customs clearance, preparing and obtaining authentication of export declaration, securing steamer space and permit—\$3.50.

Ocean freight (minimum bill of lading, \$15.00, surcharge \$.45, tollage, \$.05—\$15.50.

Consular fees, including visa and notary, \$9.76, blanks \$2.25—\$12.01.

Preparation of consular documents, arranging for consular certificate and certificate of origin—\$5.00

Insurance War Marine—\$3.92

Service fee—forwarding, clearing and/or documentation—\$10.00

Postage and petties—\$1.00

Airmail, cables, telegrams and telephone toll charges—\$1.50

Other service, association of commerce—\$1.00

Unquote.

A little study of those details makes you wonder, doesn't it? Also the fact that shipping costs—\$10.21 plus \$54.91 to total \$65.12—were almost one-third of the production cost! The odor you smell is undoubtedly smoking brakes!

PLASTIC WINDOWS ANNOUNCED

A new plastic window, which supplements rather than replaces glass, has been announced by Molded Insulation Co., the announcement being made through U. S. Rubber Company's public relations depart-

BLUE PRINTS — WHITE PRINTS PHOTOCOPIES

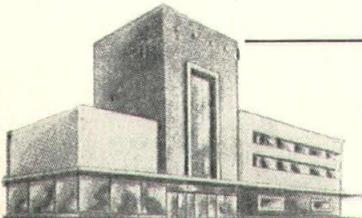
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ment in Rockefeller Center, New York 20.

The new windows snap into place and need glazing on one side only. They transmit a diffused, glare-free light which has a changing pattern made by figures in the window. Skylights of the material are also being made. The windows are strong, in one test withstanding the jump of a 240-pound man on the center of one. Seventy-eight per cent of available light is passed by the material.

Additional details and descriptive material can be had through the office listed above.

THERMOPANED AWNING SASH INSTALLED LIKE DOUBLE HUNG UNIT

Reportedly using Thermopane as economically as conventional windows and storm sash, the "Modernaire" is a new all-weather, modular window unit recently put on the market by Builders Products, Inc., Cleveland.

The unit arrives for installation complete with a roll-away bronze screen and glazed with insulating glass. They can be stacked, used singly or in ribbons to fit any sized opening. The unit's weatherstripping is of the same type as that used to seal doors of refrigerators, deep freezing units, etc.

A descriptive folder can be had from the company at Box 374, Station D, Cleveland 27, Ohio.

SPECIAL FLOOR FOR CORROSION AREAS

A new floor coating has been developed by Pennsylvania Salt Manufacturing Company for use where oils, greases and chemicals create safety and maintenance problems. It is called Neofloor and is reported

to be economical, easily applied and skid-proof.

Neofloor, the company's report says, is a grit-like material anchored in a matrix of resilient neoprene and bonded firmly to the floor with an adhesive primer. Primer and coating are supplied in liquid form and can be applied with brush or roller. It is highly resistant to fumes and spillage of acids, alkalies, salt solutions and solvents at temperatures up to 200° F.

Details can be obtained from Pennsalt's Corrosion Engineering Products Dept., Philadelphia 7.

FIREPLACE ADDED TO PREFABS

A prefabricated fireplace unit which can be installed in new or remodeled buildings in association with the Thulman chimney has been announced by the Majestic Co., Inc., Huntington, Ind. The unit is designed to save space and eliminate many of the unhappy features of older types of fireplaces. Details can be obtained from the company by asking about the Thulman Fireplace.

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SQUEEZE BAGS OF JOINT CEMENT SPEED VAN-PACKER CHIMNEY ASSEMBLY

A new polyethylene squeeze bag, each one of which contains just the right amount of cement for one joint, has been introduced for use with the Van-Packer Packaged Masonry Chimney, distributed in this area through the MacArthur Company, St. Paul.

The new bag makes for a neater chimney site, eliminates use of the putty knife for spreading and gives just the right amount of cement. To use it, the corner is clipped off (see the illustration) and the cement squeezed onto the joint. Makers report a Van-Packer chimney can be installed in three man hours or less as a new chimney or as a replacement for a wornout flue stack.



The chimney is listed for all fuels—coal, oil and gas—and all home heating plants and incinerators by UL. The sections are masonry and will withstand temperatures of 2100 degrees F. They provide insulating value equal to a 24-inch solid brick wall or 60 inches of concrete.

Additional information can be obtained from the MacArthur Company, 936 Raymond Ave., St. Paul 14, Minn.

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FIRST ROOFTOP BANK DRIVE-IN

The first rooftop drive-in banking facility will soon be operating in St. Louis, where the site of the State Bank & Trust Company is one story higher at the rear than the front. As a result, vehicular traffic from the rear street can go immediately onto the roof of the structure and to one of the two "snorkle" banking windows situated there. The teller is actually one story below in the bank proper but a two-way speaker and periscopic mirrors allow him to see and talk with the depositor. A small elevator carries money and records from the car to the teller's cage.

Another drive-in development for a restricted site is the turn-table utilized in design of the Citizens & Manufacturers National Bank, Waterbury, Conn. The cars enter a restricted area, make their deposits and drive to the end of the two-car lane, where they are turned around by the turntable and proceed on out while the next car is being served at the bank window.

Banking is definitely catering to the motoring customers.

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**HAUENSTEIN & BURMEISTER TO HANDLE
BRUNSWICK SCHOOL FURNITURE**

Hauenstein & Burmeister, Inc., Minneapolis, has been appointed sales agent and distributor in Minneapolis for the advanced new line of classroom furniture manufactured by The Brunswick-Balke-Collender Company. This furniture has been developed by Brunswick to meet demands of modern education.

"A basic objective in the design," commented R. H. Bowen, president of Hauenstein & Burmeister, "is to break away from the traditionally institutional type furniture which has prevailed in most schools for many years. Improved methods of teaching have established a less rigid teacher-student relationship. School design, classroom lighting and ventilation also have undergone many changes in recent years. Yet few changes have been made in the furniture used by our school children."

Brunswick engineers, collaborating with leading educators, architects and Dave Chapman, one of the country's foremost industrial designers, worked for more than a year to develop a line which would set new standards in design, comfort and flexibility.

O. R. Grams has been appointed to manage the new H & B division.

Hauenstein & Burmeister have been substantial subcontractors and manufacturers in the construction field in the northwest for nearly 50 years. After surveying the school equipment market in 1952, the company organized a school equipment division which is now in new quarters at 2629 30th Ave. S., Minneapolis. Acquisition of the line of ultra-modern Brunswick school furniture with its highly functional and flexible features is a part of this development.

**MARKET STUDY EVOLVES NU-WOOD
PANEL-TEX COLORS**

Introduction this month of the new Nu-Wood Panel-Tex interior wall material showed that the three decorator colors selected for the panels are the result of a careful market analysis of consumer desires, according to the Wood Conversion Company, makers of the material.

The Rahr Color Clinic of New York conducted the consumer test and listed as tops Cactus Green, Almond Brown and Lustre Gray. The surface of Panel-Tex has a woven texture protected by a latex-base coating which makes it extra-resistant to scuffing. The panels are available in 8- and 10-foot lengths and 8-, 10- and 12-inch widths. A wide flange joint makes design combinations possible with Nu-Wood Wide Flange Tiles. The panels can be affixed with staples, nails, Adhestik and the Nu-Wood Clip System units. Details can be obtained from Dept. P-216, Wood Conversion Co., 1st National Bank Bldg., St. Paul 1, Minn.

FIRST ATOMIC HEAT USED IN BUILDINGS

Heat resulting from atomic work is now being utilized for the first time to warm buildings at the Hanford Project in Richland, Washington. The heat is taken from the water used to cool the reactors by transferring it to the air in the buildings' air conditioning plants. Since 1944 the heat has just been allowed to waste.

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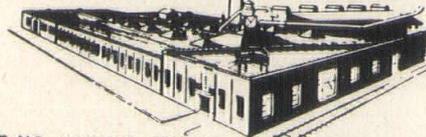
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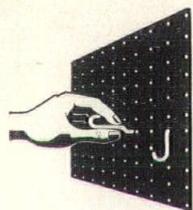
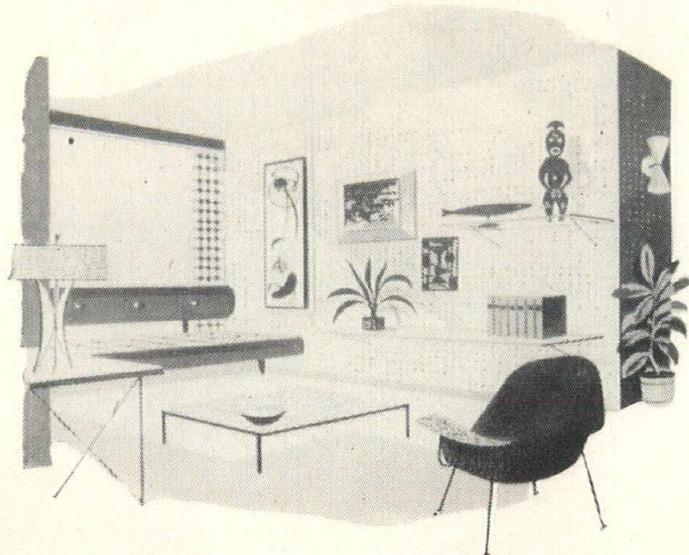
BUILDING RECORDS CONTINUE TO MOUNT WITH OUTLOOK GOOD

The first quarter of 1954 showed construction awards well above the same period for 1953, according to reports from the F. W. Dodge Corporation. The trend seemed due to continue.

The 37 eastern states' report by the construction news specialists showed one of the highest records of



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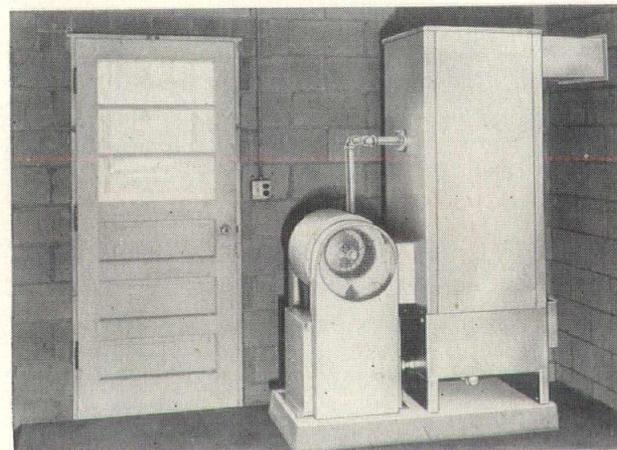
any April in the 63-year record of the company. For the first quarter the report on the Minneapolis area showed 1954 up 61 per cent from the same 1953 period and the metropolitan Minneapolis-St. Paul awards for the quarter were up 31 per cent from 1953.

"The extremely high April totals indicate a continuation of the unprecedented boom in construction activity reported thus far in 1954," Vice-Chairman T. S. Holden of the Dodge Corporation said. "Contract awards in January, February and March of this year set all-time monthly records for those months. The April figures, while they are second highest for that month, actually indicate no slackening of pace.

"As these contract awards are widely used as an indicator of economic trends, it is important to note that April of this year cannot be strictly compared with April of last because of the inclusion of a considerable amount of atomic energy work in last year's April figures."

COOLING TOWER FOR BUILT-IN HOME AIR CONDITIONING

Small, compact and noiseless in operation is the way the Binks Manufacturing Company's Model B-23 cooling tower is described. The tower is designed for



"built-in" home air conditioning systems. The tower can be installed with the conditioning unit in basements, utility rooms, garages or outdoors.

The unit is self contained, ready for installation. It has a high water economy factor, its makers point out, and is said to save more than 95% of the water normally discharged to waste. The same water is circulated continuously, thus reducing the water cost of cooling. Air moves upwards in the tower against the flow of the water, increasing the cooling rate.

Added details on the tower can be had from the company at 3122 Carroll Ave., Chicago 12, Ill., by asking for Bulletin 47-D.

RUN-AROUND REMOVED FROM REVOLVING DOORS BY BOOKLET

The architect designing revolving doors into his public building will find a new booklet issued by the International Steel Company of Evansville, Ind., a valuable little bit of reference. The booklet covers

all the important considerations of the use of revolving doors, their design into buildings, their structures and installation.

Detailed with keen insight, the booklet gives data for estimating numbers and kinds of doors to be used for any specific installation, using either stock models or those designed specifically for a certain project. Drawings, used liberally throughout the booklet, show construction details to scale. Also included is a sheet of master specifications to help the architect in filling out his spec sheet.

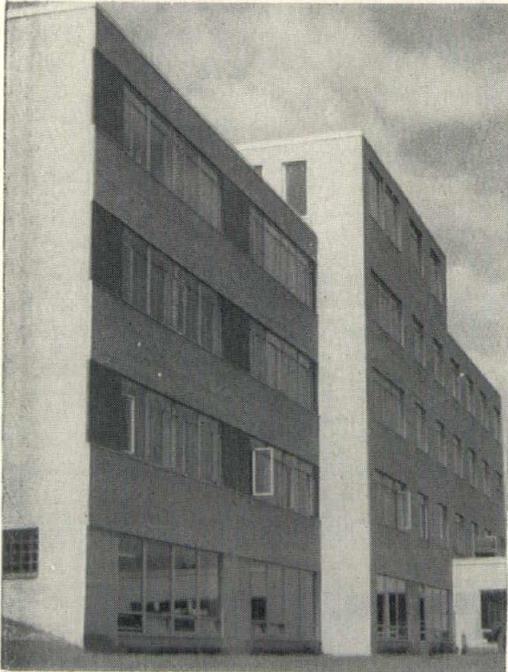
SURVEY SHOWS CHURCHES SPENDING MORE FOR EDUCATIONAL FACILITIES

Nearly 50 per cent of the current spending for new construction by a group of Protestant churches surveyed by a national church magazine is going for educational structures, indicating a definite trend away from pre-war tendencies to spend for sanctuaries almost to the exclusion of school structures.

This tendency has a definite influence on the design of today's churches and architects with commissions in this field find they need good background in educational planning as well as strictly ecclesiastical. Before the war from 75 to 80 per cent of the church monies for new construction went into erection of sanctuaries; now the figure is just about 50 per cent.

Learn . . . take part . . . have fun

Rochester in October! Page 8



ALUMINUM HOLLOW EXTRUSION

Sunlight **Windows**

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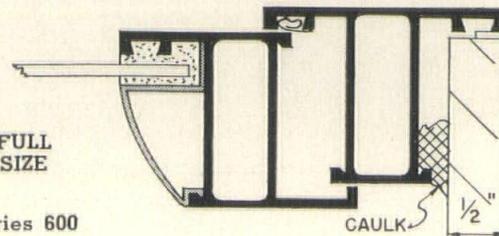
Minneapolis (Golden Valley) Minnesota

Magney, Tusler & Setter, architects

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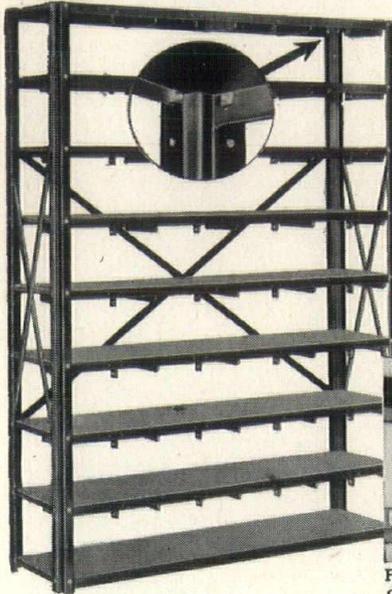
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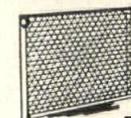
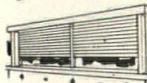
RE. 1770

QUICKIES

being footnotes on some news
developments in the industry

A WARNING ABOUT SHOPPING CENTERS has been sounded by Detroit architect Karl Van Leuven, Jr., who told the American Society of Appraisers that poor locations and improper planning is tending to surround many modern centers with unattractive areas "which are rapidly becoming slums." He particularly deplored strip development of shopping centers which have created serious patterns of traffic congestion. "A typical strip development," he said, "is a wild, uncontrolled, cancerous growth and a blot on the community. It is in danger of committing suicide by its own overbuilding, lack of planning and failure to integrate with the community."

HANGAR IN PRECAST CONCRETE is the new 130-foot clear-span structure, 160 feet long, built for the Royal Canadian Air Force. The structure was erected with use of small precast units and has many innovations in its design. Actual hangar area is covered by three-hinged arches of 110-foot span and 18-foot rise. Side bays are framed with three-hinged members. The sloping roof beam of frame with the external column forms one unit and was referred to as the "lean-to" member. It is hinged to the vertical main column, which projects above the lean-to member and cantilevers 10 feet into the center bay to support the main three-hinged arch. The whole assembly of one bent consists of two three-hinged frames supporting the three-hinged arch and is built up of six precast concrete members; two arch ribs, two cantilever columns and two lean-to members. In this, designers of the structure reported, the structure is statically determinate and therefore is not affected by variations in temperature, shrinkage of concrete or uneven foundation settlements. The 10-foot spacing from center to center of bents was a result of keeping the maximum weight of the precast members below 12 tons so standard truck cranes could be used for erection. The hangar can be disassembled and re-erected at a different spot as conditions demand.



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PLASTERERS TAKE TO STILTS to save time and effort. While the report of these high stepping plaster placers comes from the Southwest, the writer knows of at least one Minneapolis chap who works on stilts. The stilts are from 18 inches to 24 inches high, rubber soled and fasten securely to the plasterer's feet. He walks around at the right level for his work on ceilings and does not waste time moving ladders and scaffolding.

● **DON'T STRUGGLE WITH IT
OMIT IT**

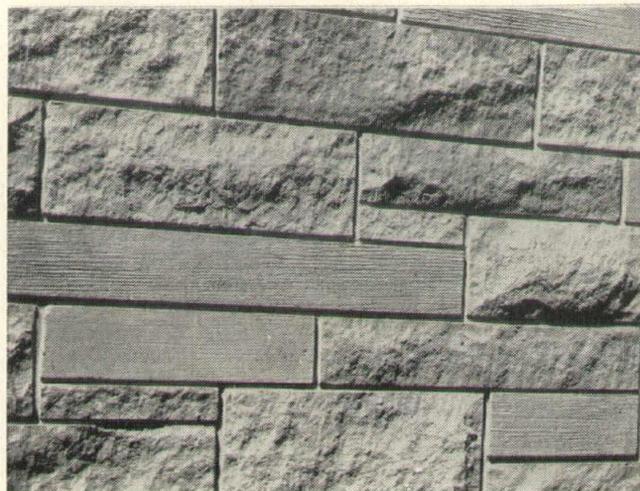
AN UNIMPORTANT MAN said to me the other day, "The most severe form of punishment can be failure to participate." Over concern by the designer with the relations of *unparticipating* parts of any project, however smoothly functioning the structure, or a "precious" concern which is *unconcerned* with the character and quality in daily use of a given necessity, may hold the static hand of death upon the architectural expression of an idea struggling to be born.

Remember

Rochester!—see page 8

SPECIFY

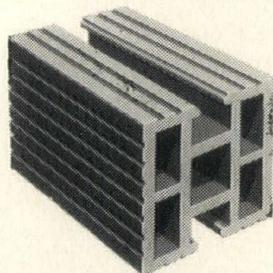
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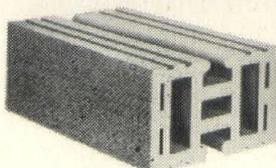
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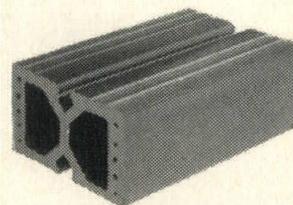
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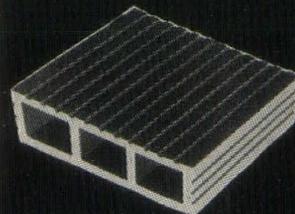
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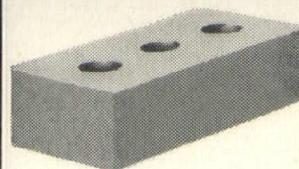
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106 So. Ninth St., Minneapolis, Minn.

NATIONAL HOME WEEK will focus attention on this phase of the architect's work this year during the week of September 19 to 26. Planners hope to make the event bigger and better than any in the history of the week with big open house displays in all major cities. Early estimates put the value of the homes to be displayed in this year's event at \$100,000,000.

LOUIS SULLIVAN goes before the cameras this year for the final shots in what is reported to be the first thorough photographic study ever made of his architectural accomplishments. Students of the Institute of Design of Illinois Institute of Technology, Chicago, are doing the job, exhibiting the results. Finish of the project is planned for this summer. Any reader of NORTHWEST ARCHITECT who does not know who Sullivan is better hide his head and steer clear of our top writer, W. G. P.!

SPRAYED-ON VINYL PLASTICS were used recently to coat 39 interior columns of the United Nations General Assembly Building lobby. Each column is 42 feet high and the workmen wore no masks nor did they use drop cloths. Visitors to the building continued past where the work was being done without danger of being splattered.

LOOK WHERE the old front porch has gone! Off the house and into the garden where it becomes a part of the garage in some new designs of builder as well as "prepackaged" garages. Some covered porches are as large as 8' x 24' and can be screened for summer lounging. They are enhanced by colorful planting boxes and trellises to form outdoor living rooms. These porches take nothing away from the storage facilities of the garages which still provide ample room for a car, workbench and storage of garden implements, children's bicycles and other paraphernalia.

HOME BUILDERS HAVE DISCOVERED that their job doesn't end with the sale of a new house for part of their "after sales" follow-up is to teach buyers how to take care of their new homes. To help buyers maintain their homes properly, the National Association of Home Builders, in co-operation with "LIVING For Young Homemakers" magazine, has produced a new educational film which is available free to schools and clubs. "Your New Home—How To Take Care of It" explains such things as moisture control, what to do with sticky doors, cleaning and decorating walls and woodwork, what to use on asphalt tile or hardwood floors, etc. These and many other maintenance tips are illustrated and discussed in the 50-frame 35 mm strip film.

AMERICA'S BRICK AND TILE manufacturers have spent over a million dollars in the past seven years to increase the supply of qualified bricklayers in this country. More than 30,000 journeymen brick masons

have been added to the ranks of the craft since 1946 as a result of a nationwide apprenticeship program sponsored by Structural Clay Products Institute and the Bricklayers, Masons and Plasterers International Union (A.F. of L.). Another 13,000 young men are still in training and will further augment the supply of craftsmen. Training costs have averaged \$23.25 for each mason trained, or about one day's journeyman's pay per mason and a total of \$600,000 has been expended by brick and tile manufacturers through the Institute's Mason Relations Department.

AMERICANS ARE GETTING the fix-up urge, reports the Chamber of Commerce of the United States. This year they will spend around \$6,500,000,000 to fix up residential property and next year the figure may go higher. One reason is the growing American family. Government census figures show that since 1940 the number of families with three children has increased by 77 per cent, those with four children by 50 per cent and those with five children by 27 per cent. Usually, an addition to the family means an addition to the house. Chances are, too, that Dad's office building is being fixed up. Most office buildings are 20 years old or more and competition by up-to-the-minute structures means that better lighting, heating and air conditioning are becoming almost compulsory for operators of older buildings. Hotels, pushed by the new motels, are brightening up their lobbies and corridors, redecorating rooms, installing new elevators and otherwise fixing up to keep guests happy.

ROCK WOOL AND ALUMINUM FOIL COMBINED IN NEW INSULATION

A new insulating material which combines the blocking factors of rock wool with the reflective qualities of aluminum foil has been put on the market under the name of Gold Bond Twinsulation by the National Gypsum Company. In blanket form, it has aluminum foil on the side which goes toward the inside of the building and is aluminum coated on the other side, with rock wool between.

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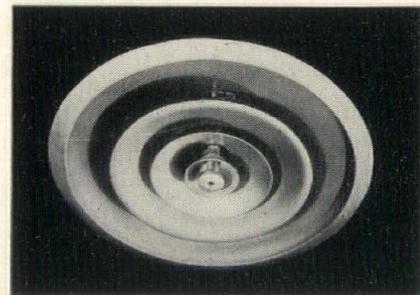
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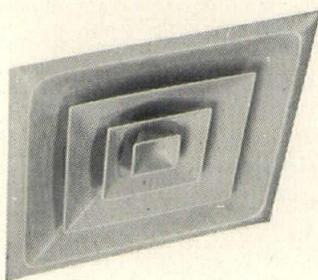
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BOUND STUFF

*being some notes on new books,
pamphlets and other printed matter*

LIBRARY Building Plans Institute has had its proceedings published in a monograph by the Association of College and Reference Libraries. The material covered resulted from a conference of architects and librarians in which plans for libraries and similar structures were discussed. The monograph, which the publishers say is "our most comprehensive venture along these lines," includes an important bibliography which will make the volume an important reference tool for designers of libraries.

Price—\$2.25

Address—ACRL Monographs
c/o American Library Association,
50 E. Huron St.,
Chicago 11, Ill.

ARCHITECTURAL METAL spex for steel stairs are covered in Bulletin No. 17 of the National Association of Architectural Metal Manufacturers in its series of Architectural Metal Bulletins. Also available are all preceding bulletins in the series. They help architects in preparing metal plans and writing spex.

Price—free

Address—National Association of Architectural Metal Mfrs.,
228 N. LaSalle St.,
Chicago 1, Ill.

HOUSEBUILDING IN TRANSITION is subject and title of a new book by Sherman J. Maisel. With the words "housebuilders will be forced to speed up their adoption of improvements and cost saving methods more rapidly than in the past few years if they want to hold their markets in the face of increasing competition and a fall in demand," the author opens a discussion which leads to some important revision recommendations for this industry, whose members deal so directly with architects. Problems seem to center in need for better management.

Price—unquoted

Address—University of California Press
Berkeley 4, Calif.

CLIMATIC DATA and their influence on construction is the subject of six reports published by the Housing and Home Finance Agency. A 152-page volume, with illustrations, it presents information of value to architects and others in the industry relative the planning or more comfortable, convenient and economical structures in relationship to available weather and climatic data. The reports are "Man as a Physiological Measure in Architecture," "Regional Climate Interpretation," "Calculation of Shading Devices," "Radiation on Various Surfaces," "Effect of Radiation on Orientation and Site Selection" and "Solar Radiation and Heat Transmission in Dwellings."

Price—75 cents

Address—Superintendent of Documents,
U. S. Government Printing Office,
Washington 25, D. C.

ARCHITECTURAL WOODWORK is a subject of a series of brochures being released by the Architectural Woodwork Institute which will deal with cabinets, paneling, doors, windows, etc. The first bulletin has just been released and another is due shortly. Good reference materials, they are being prepared by the architectural consultant to the institute, James Arkin, A.I.A.

Price—free
 Address—Architectural Woodwork Institute,
 332 S. Michigan Ave.,
 Chicago 4, Ill.

FIRE PROTECTION Handbook is the only reference volume on fire prevention and protection now available, according to the announcement of the 11th edition by the National Fire Prevention Association. The result of two years' work by the association staff and some 100 consultants, it is a handy reference volume for architects. This edition is completely revised and includes all latest fire equipment for buildings like automatic spray sprinklers, new dry pipe valves, water flow alarms and other devices. Tables of flammable liquids, finish data in relation to fire, resistance ratings and hundreds of other important categories are covered in the 1,656 pages of the book. Seems assured of top position in the stack of reference books.

Price—\$10.50
 Address—National Fire Prevention Association,
 60 Batterymarch St.,
 Boston 10, Mass.

RULE MEASURES BOTH WAYS FROM CENTER

A new "Centerule" which has its zero point in the center and measures by units to 9 inches in each direction from center has been brought out by Maher Negative and Plate Company. The other edge of the rule has a standard 18-inch scale on it.

The rule is made of aluminum, will retail for less than \$2.00 and distribution is planned through normal channels.

ONAN BULLETIN COVERS STANDBY PLANT INSTALLATION

Covering a technical discussion in simple language, a new bulletin on the installation of emergency standby electric generating plants and automatic line transfer

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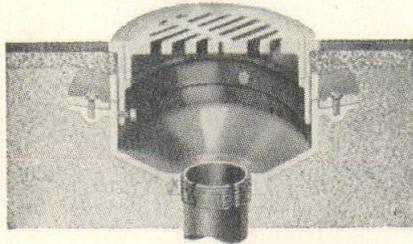
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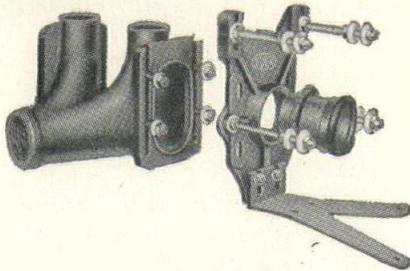
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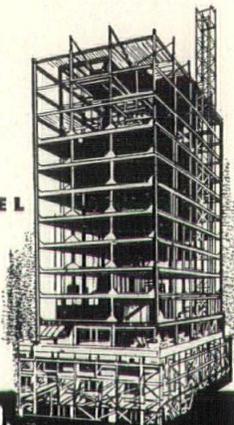
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controls has been issued by D. W. Onan & Sons, Inc., Minneapolis.

The booklet outlines various units and their uses, showing installation through use of well-drawn illustrations. The booklet can be had from the company by asking for Technical Bulletin T-011.

W.G.P. Gives a Recipe!

Cottage Cheese Pancakes

THIS FAVORITE RECIPE of ours, lost for ten years, was recovered by our Janice from her keepsake file

4 eggs, yolks and whites separated

Ranch eggs, from free scratching hens fed on live food

1/2 pint sour cream

Milkman's cream won't sour, just spoils and smells

1/2 lb. cottage cheese

See below

3/4 cup of sifted flour

From your local miller—no ageinized reinforced synthetic flour

1/2 teaspoon salt

Go easy on salt, it's a dangerous chemical

1 tablespoon sugar

2 teaspoons honey better

3/4 teaspoon soda

depending on how sour the cream

Beat the egg yolks with the sour cream. Press cottage cheese through sieve and add. Sift in the dry ingredients; blend together, then fold in the stiffly beaten egg whites. Drop batter from spoon onto hot greased griddle, making small cakes. Fry until golden brown on each side.

The taste rides on the consistency. The pancakes are chewy like English muffins with low starch content. But you must have cottage cheese with an honest unadulterated ferment base. Your city "Dairy's" synthetic processed "cottage cheese," so called, makes a heavy indigestible cake with a drug-counter flavor. To go on a non-fattening diet is not enough. What you eat must have some food value if you expect to survive—or do you? Statistics are against over-weight parents and under-nourished children. Please buy food, not things to eat.

WOODEN Y'KNOW IT!

Wood for fire, wood to build—that does not end the story. Here are some oddments from wood's uses.

In an election in a blind organization, various shapes of wooden blocks were used for the candidates, each member voting by the feel of the block.

Apt Germans called wood "universalrohstoff" the universal raw stuff or raw material.

The dinner gong in lumber camps is called the "gut hammer." Neat turn of phrase.

A scarce South African wood has been sold for as much as \$21.63 per cubic foot, making it the highest priced commercial wood, in the world. Strangely enough,

NORTHWEST

its name is "Stinkwood," so you can apply Shakespeare's query, "What's in a name?"

NEW COUNCIL UNITES MASONRY UNITS

First meetings of the recently formed Allied Masonry Council, whose aim is dissemination of pertinent information to all segments of the building industry, have been held and found representatives of the structural clay products, natural stone, marble and granite industries meeting with those of the masonry unions. The first meetings are aimed at setting up methods for getting technical and other information into the hands of architects, engineers, contractors and others.

METAL LATH SPEX DETAILED

Information on the kinds, manufacture and uses of metal lath is contained in a new leaflet issued by the Metal Lath Manufacturers Association, Engineers Bldg., Cleveland 14, Ohio.

Three basic types of lath—flat expanded, expanded rib and sheet lath—are discussed, together with weight per square yard, size of sheets and uses. Interesting sidelight on this material is fact the first patent for a metal plastering base was issued to Peter Naylor of New York City in 1839!

RURAL LIGHTING COVERED

A booklet intended primarily for farm electrical problems which also has much of interest to anyone dealing with rural construction is the Sylvania Electric Products' "Better Lighting for Your Farm."

Special uses of light to increase egg production, kill germs, etc., are covered, as well as standard recommendations for proper use of light in all rural activities. It can be obtained from Sylvania's Advertising Department, 1100 Main St., Buffalo 7, N. Y., by asking for Booklet 1673.

DENTAL LAVATORIES USED IN HOMES

To ease the bathroom rush in the morning more and more dental lavatories are being installed as extra equipment in modern homes, according to the makers of plumbing equipment. The lavatories are being designed in various colors and otherwise "prettied up" to sell to designers of new homes. They occupy little space, require no complicated plumbing and offer a sales point for new houses.

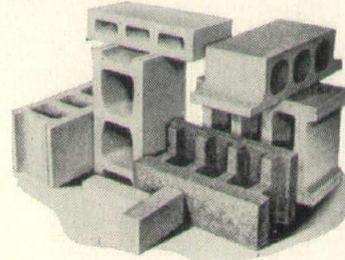
BEAT SWORD INTO PLOWSHARE TWIST with modern angle was the conference subject at Basic Materials Exposition in Chicago in May—"the peacetime industrial uses of new materials developed for rockets and guided missiles." The conference and associated exhibits emphasized the relationship of materials with each other and the ways in which they can be combined and utilized to solve the ever growing problem of modern industrial and building production.

ARCHITECT

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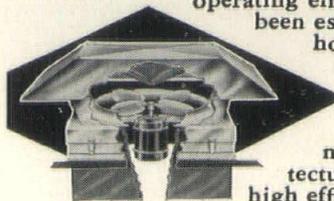
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**FENESTRA LISTINGS
AVAILABLE**

A complete catalog of stock metal building products for residences and commercial structures has been issued by Detroit Steel Products Company, makers of Fenestra window units. The catalog shows all units, describes and illustrates their uses and is a handy reference for those planning to utilize prefabricated units in buildings. The products are those available at all Detroit Steel Products warehouses and the Minneapolis address given is 1201 Foshay Tower, from which the catalog

and added information can be obtained.

In 1800, George Hadfield patented the first brick machine, and within ten years 22 devices were patented to improve on the original. By 1850, brickmaking, which had been a purely hand craft since the days of the Pharaohs, had become largely a mechanical process.

Don't Forget!

What?.....See Page 8

SILICONES ENAMEL "HOT-TEST SPOT" MAGNETIC WIRES

A new silicone enameled magnetic wire has been produced by the Anaconda Wire & Cable Co., Muskegon, Mich., for use in those "hottest spots" where temperatures range at least 130 degrees C. The wire's coating has good abrasion resistance, adheres well to the conductor and is smooth, tough and not attacked by common solvents.

In use, the wire fulfills the duties of other regularly insulated magnetic wires.

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say

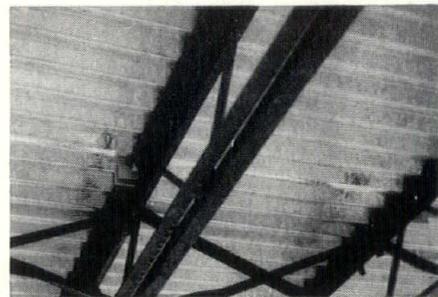
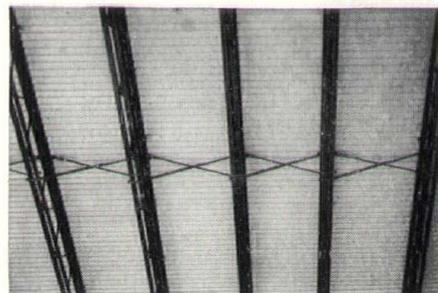
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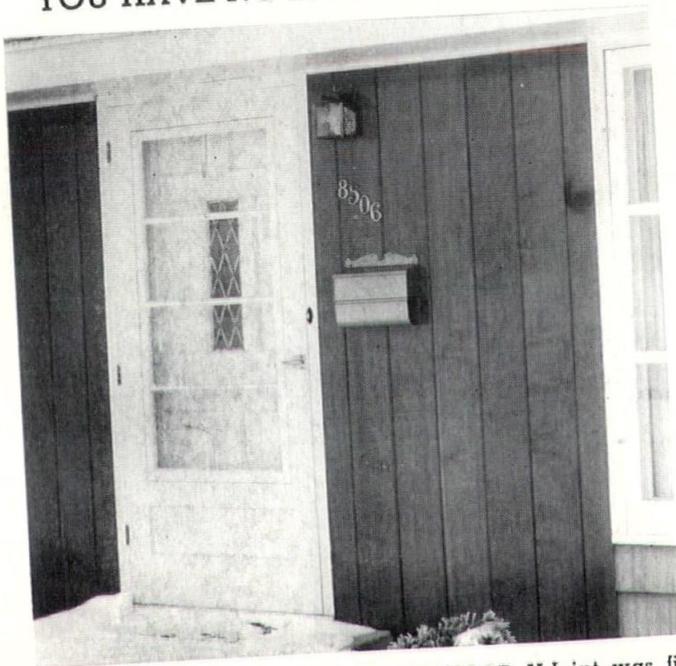


This small home has $\frac{5}{8} \times 8$ " PALCO REDWOOD Bevel Siding on the walls with a Redwood Board & Batten front Gable. This house was the only one of a 12 house project where the builder used Bevel Siding—and it was the first one sold!

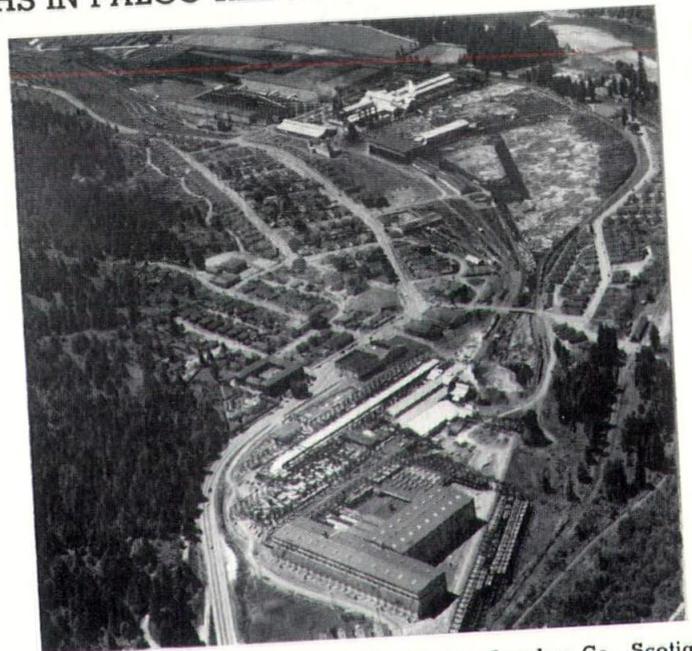


This outstanding small church has $\frac{3}{4} \times 10$ Clear Heart Vertical Grain PALCO REDWOOD Bevel siding applied on the lower portion and painted white. The same grade of 1×8 V-Joint was applied to the upper portion and finished with a natural stain.

PALCO REDWOOD BEVEL SIDINGS ARE 100% VERTICAL GRAIN FOR THE LONGEST POSSIBLE PAINT RETENTION WITH NO CUPPING OR WARPING. THEY ARE MILLED TO PERFECTION, ARE BUNDLED ONLY ONE LENGTH TO THE BUNDLE, AND INCLUDE A GOOD PERCENTAGE OF LONG LENGTHS UP TO 20 FOOT. YOU HAVE NO EXCESSIVE SHORT LENGTHS IN PALCO REDWOOD.



1×8 Clear Heart V. G. PALCO REDWOOD V-Joint was finished natural around the doorway of this home. A touch of the natural beauty of Redwood brightens the architecture of any house.



Pictured above is the mill of the Pacific Lumber Co., Scotia, California, producers of PALCO REDWOOD, and the oldest, largest, and most progressive Redwood mill. You are invited to tour the mill whenever you are in Northern California. You are also invited to visit our Minneapolis Distribution Yard and inspect our one million foot Redwood inventory.

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