See how
All-Air
High Velocity
units
lower
the roof

This photograph shows the high
velocity ducts installed through the
open web joists. Note how the Anemostat sound attenuation unit is
also placed inside the open web
joist area. As a result, the architects and engineers were able to
save nearly two feet in a one-story
building... also make comparable
savings in construction costs.

Completed interior with the Anemostat High Velocity units installed
in the ceiling.

The National Bank of Detroit, which is equipped with an
Anemostat All-Air High Velocity distribution system.

Facts about All-Air HV units

- Can be used with smaller than conventional ducts.
- Can be installed through open web joists (as shown here) and in many other space-saving applica-
- Can be installed faster and with less cost.
- Require no coils, thus eliminate clogging and odors.
- Round, square and straight line diffusers with high velocity units are adaptable to a wide variety
  of architectural designs.

- Architect: W. ROY AKITT
- Engineer: F. A. SANDO
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ON THE COVER

Address all communications regarding the State Association to the Secretary, Trevor W. Rogers, 832 Rand Building, Buffalo 3, New York; all editorial comments to Charles Rockwell Ellis, 433 South Salina Street, Syracuse 2, New York; all editorial material to Warren N. Wittek, 45 Allen Street, Buffalo 2, New York; and inquiries regarding advertising to the Publisher.

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<tr>
<th>Code</th>
<th>Name</th>
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<tbody>
<tr>
<td>418</td>
<td>Iris Blue</td>
</tr>
<tr>
<td>501</td>
<td>Pearl Grey</td>
</tr>
<tr>
<td>525</td>
<td>Pearl Grey—medium speck</td>
</tr>
<tr>
<td>623</td>
<td>Limestone Grey—light speck</td>
</tr>
<tr>
<td>725</td>
<td>Pearl White— medium speck</td>
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<td>729</td>
<td>Pearl White— heavy speck</td>
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<tr>
<td>735</td>
<td>Pink—medium speck</td>
</tr>
<tr>
<td>752</td>
<td>Ivory—medium speck</td>
</tr>
<tr>
<td>824</td>
<td>Oyster Grey— medium speck</td>
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DRAFT STOP traps the cold air at the window before it can spill onto the students. Once trapped by the cold air slot behind the utility cabinets, this cold air is either drawn into the unit ventilator for conditioning or expelled from the building entirely.

The unit is never in the compromising position of having to heat and cool simultaneously—a situation certain to exist where additional heat is used to combat drafts.

Don't look upon the problem of overheating as a fad—it's a fact. And DRAFT STOP solves the problem in a way that also saves dollars. For complete information, see our catalog in Sweet's Architectural File, or write Herman Nelson, Unit Ventilator Products, American Air Filter Company, Inc., Louisville 8, Ky.

Savings Start At The Drafting Board

The DRAFT STOP economy story begins with school construction. A building utilizing the cooling, heating, ventilating and draft elimination features of DRAFT STOP requires no costly supplementary radiation—no vent flues, corridor venting or exhaust fans.

Most of the windows can be permanent glass windows, thus eliminating the extra costs connected with installation of "opener" windows (as much as $25 per window for hardware alone).

DRAFT STOP Economy Continues In Day-To-Day Operation

Since the major function of the unit is cooling—to compensate for the natural heat gain from students, lighting and solar effect—DRAFT STOP heats only when heat is needed to bring the classroom to perfect comfort level.

When the unit is heating, fuel dollars don't go "out the window". Comfort plus cash savings—that's why budget-minded schools are DRAFT STOP's best customers.
NEW DEVELOPMENTS HIGHLIGHT
HERMAN NELSON RESEARCH PROGRAM

New Light|Stop Accessory Aids Audio-Visual Classroom

Light|Stop solves the problem of retaining classroom comfort while classrooms are darkened for audio-visual sessions.

Before the development of this new accessory, billowing curtains and streaks of light distracted students from their learning tasks. The alternative was to turn off the unit ventilator. This robbed the students of the essentials for comfort just when they needed them most.

Light|Stop prevents flapping of curtain and keeps out light streaks. Thus, audio-

More Colors Now Available For Unit Ventilators

Herman Nelson now offers seven colors for unit ventilators:

SAHARA TAN
PLATINUM GREEN
AUTUMN GREEN
COLONIAL BLUE
MIST GRAY
TROPIC GREEN
CORAL TAN

In addition, there are now five distinct selections in linoleum patterns and colors for unit ventilator tops. This comprehensive range provides colors that will blend or contrast with any classroom color scheme.

Bulletin 600-E3 contains actual painted panels of all unit ventilator colors and four-color reproductions of the linoleum patterns. Send for your copy.

Classroom Filter Cuts Costs In Half

The new Herman Nelson Renewable Filter utilizes highly effective AMER-glas media at a cost one-half that of replaceable filters. Here's all you do to change media:

Remove filter from unit ventilator. Open frame, take out media and dispose of it in wastebasket.

Pull out desired length of AMER-glas media from carton dispenser and cut off with scissors.

Place clean media in filter frame.

Replace filter in unit ventilator.

Herman Nelson Offers Complete Line For All Classroom Cooling, Heating And Ventilating Needs

AUDITORIUM UNIT VENTILATORS

For use where large volumes of air need to be heated and circulated, such as auditoriums and gymnasiums.

UNIT VENTILATOR CONVECTORS

For both DRAFT|STOP and General Purpose Units—designed to harmonize with the unit ventilator.

UNIT VENTILATOR UTILITY CABINETS

Available in a variety of sizes and color schemes and designed to harmonize with the two product lines.

DRAFT|STOP WALL

For use where it is not desirable to use DRAFT|STOP Utility Cabinets or cavity wall construction.
OFFICERS AND DIRECTORS

1955

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For BEAUTY and UTILITY

In banks, as in all public buildings, beauty and utility are the prime requisites for floors, and Robbins Lifetime Vinyl Terra-Tile meets these requirements perfectly. Whether the choice is brilliant color or a delicate pastel shade, the dramatic terrazzo design places the accent on beauty... beauty which lives for a lifetime.

Robbins Lifetime Vinyl Terra-Tile is made of all virgin vinyl and is 100% homogenous! It is all vinyl through the back, not just to the back. Each tile is one solid piece—the beautiful terrazzo design goes all the way through. It can never wear off.

Detailed information on the entire Robbins line is available from Robbins Distributors located in all principal cities. Or, write, wire or phone our factories in Tuscumbia, Alabama.

ROBBINS FLOOR PRODUCTS, Inc.
TUSCUMBIA (Muscle Shoals), ALABAMA
Fresh Slants on School Auditoriums

Helpful data offered to architects

American Seating Company offers New York State architects a vast fund of the most comprehensive, up-to-date school planning information available in the seating industry. This wealth of material will greatly assist in your auditorium planning and installation problems. It will be supplied without obligation by your nearest American Seating Company representative. Also available is information on Classroom Furniture; Gymnasium, Playground and Laboratory Equipment; Library Furniture; Bleachers and Stadium Seating; Chalkboard and Corkboard.

American Bodiform Auditorium Chairs

The ultimate in beauty, durability, comfort. Seats have spring-arch construction; backs have scientific, body-fitting contours. Automatic, uniform, silent, ¾ safety-fold seat action allows more room for passing and sweeping. Acoustically, the full-fabric upholstery compensates for seat vacancies. Wide range of styles, colors, upholstery materials. With or without folding tablet-arm.
Only natural cork could look so luxurious... only asphalt tile could cost so little

MATICO’s newest flooring achievement

MATICORK asphalt tile flooring captures all the rich handsomeness of true cork flooring, yet is priced the same as asphalt tile. And durable, easy-to-maintain MATICORK can be used on, above or below grade... presents no special installation problems.

No wonder so many architects and builders are selecting MATICORK for homes, offices, schools, hospitals and commercial areas. In three desirable cork shades — light, medium and dark.

Be sure to consider MATICORK for your next project.
THE PRESIDENT'S MESSAGE

ON behalf of the Officers and Directors of the New York State Association of Architects, may I extend to all members, exhibitors, guests, their ladies and friends, a most cordial welcome to our Annual Convention on October 13, 14, and 15 at the Sheraton-Ten Eyck in Albany, New York.

Our Convention Committee, in cooperation with our co-sponsors, the Eastern New York and Westchester Chapters, has arranged for your pleasure a very interesting program.

At this our Annual and Regional meeting, we have invited as our special guests the members of the graduating classes of the Schools of Architecture of Columbia, Cooper Union, Cornell, Pratt, Rensselaer-Polytechnic and Syracuse. We welcome these youngsters to our profession.

We will be honored by the presence of one of our own distinguished members, an inspired leader of our profession, George Bain Cummings, President of the American Institute of Architects.

Our Legislative Committee, headed by our Past President and Regional Director, Matthew W. Del Gaudio, has again been successful in opposing amendments to the Education Law which would have weakened the high standards of the profession. I gratefully acknowledge the assistance rendered by all Chapters, Societies and many individual members. We owe a vote of thanks to our State Legislators who with sympathetic understanding and in the best public interest accepted our constructive suggestions and unselfish advice. We are particularly indebted to one of our own members in the Legislature, a public spirited architect, Assemblyman Alfred A. Lama.

We succeeded in revising parts of the Labor Law, the Multiple Dwelling and Multiple Residence Laws and other laws effecting the design and construction of buildings. We furthered our aims in Public Relations and in our Relations with other Professions, ever mindful of our primary objective to make our profession of ever-increasing service to society.

On the debit side, I regret that we have not yet been able to establish a central office for more efficient conduct of our State Association. May I hopefully repeat the slogan of my favorite team, "Wait till next year."

As I am about to join a distinguished group of Past Presidents, may I first thank them for their guidance, thank all the committees for their tireless efforts and accomplishments, and thank the membership for their splendid cooperation. May I again say with all sincerity, it was an honor to serve you.

Adolph Goldberg, President
New York State Association of Architects
## COMMERCIAL EXHIBITORS

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THE 1955
CONVENTION COMMITTEE

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Convention Chairman

Donald Q. Faragher
Co-Chairman

G. Morton Wolfe
Carl W. Clark
Charles R. Ellis
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Fay Auld Evans
William H. Switzer
PROGRAM
1955 CONVENTION

WEDNESDAY, OCTOBER 12th, 1955

2:30 P.M.  Registration — Hotel Lobby — Mr. & Mrs. Simeon Heller in charge
6:30 P.M.  Group Dinners

THURSDAY, OCTOBER 13th, 1955

9:00 A.M.  Registration — Hotel Lobby — Mr. & Mrs. Simeon Heller in charge
9:30 A.M.  Opening Session
  Adolph Goldberg, President New York State Association
  of Architects, presiding
  Report of Board
  Report of Treasurer
  Report of Secretary
  Report of Committees
  Report of Nominating Committee

12:00 Noon  Opening of Commercial Exhibits
  G. Morton Wolfe, presiding

1:30 P.M.  Luncheon — Ball Room
  Sponsorship of Westchester Chapter, A.I.A.
  Toastmaster: Gerson T. Hirsch, President Westchester Chapter, A.I.A.
  Welcome: Mayor Erastus Corning
  Response: President Adolph Goldberg
  Introductions
  Speakers:
  George Bain Cummings, President American Institute of Architects
  Walter A. Taylor, Director Education and Research, A.I.A.

3:00 P.M.  Lectures — Donald Q. Faragher, presiding
  Subject: “Adequate Wiring”

3:00 P.M.  Tour — Ten Broeck Mansion — Mrs. Sarkis Arkell, hostess

4:00 P.M.  Costume Tea — Ten Broeck Mansion

6:00 P.M.  President’s Reception

7:00 P.M.  Visit Exhibits

8:00 P.M.  Buffet Dinner

9:30 P.M.  Music and Dancing

FRIDAY, OCTOBER 14th, 1955

9:30 A.M.  Second Session
  President Adolph Goldberg presiding
  Reports
  Election of Officers

1:00 P.M.  Luncheon — Ball Room
  Sponsorship of Eastern New York Chapter, A.I.A.
  Toastmaster: James A. Mero, President Eastern New York Chapter, A.I.A.
  Speaker: Harold D. Haufl, Head of Architecture,
  Rensselaer Polytechnic Institute

2:30 P.M.  Seminars
  Subject: “Young Architect's Future”
  Panel: 2 students, 2 practicing architects, 2 educators

4:30 P.M.  Regional Meeting, A.I.A.
  Matthew W. Del Gaudio, Regional Director New York
  District, A.I.A., presiding
7:30 P.M.  ANNUAL BANQUET  
  Toastmaster: President Adolph Goldberg  
  Introductions  
  Speaker: Cameron Ralston  
  Subject: "The Battle for Men's Minds"

SATURDAY, OCTOBER 15th, 1955

9:30 A.M.  FINAL SESSION  
  President Adolph Goldberg, presiding  
  Reports  
  Report of Resolutions Committee  
  Resolutions and Announcements

1:00 P.M.  LUNCHEON — Ball Room  
  Toastmaster: Matthew W. Del Gaudio  
  Installation of Officers: Matthew W. Del Gaudio

2:00 P.M.  AWARDS  
  G. Morton Wolfe, presiding  
2:30 P.M.  DIRECTOR'S MEETING

Women's Program

WEDNESDAY, OCTOBER 12th, 1955

2:30 P.M.  REGISTRATION — Hotel Lobby — Mr. & Mrs. Simeon Heller in charge

6:30 P.M.  GROUP DINNERS

THURSDAY, OCTOBER 13th, 1955

9:00 A.M.  REGISTRATION — Hotel Lobby — Mr. & Mrs. Simeon Heller in charge

1:30 P.M.  LUNCHEON — Ball Room

3:00 P.M.  TOUR — Ten Broeck Mansion — Mrs. Sarkis Arkell, hostess

4:00 P.M.  COSTUME TEA — Ten Broeck Mansion

6:00 P.M.  PRESIDENT'S RECEPTION

7:00 P.M.  VISIT EXHIBITS

8:00 P.M.  BUFFET DINNER

9:30 P.M.  MUSIC AND DANCING

FRIDAY, OCTOBER 14th, 1955

9:30 A.M.  VISIT EXHIBITS

1:00 P.M.  LUNCHEON — DeWitt Clinton Hotel  
  Fashion Show — Accessories — Door Prizes

3:30 P.M.  SHOPPING, SIGHTSEEING

7:30 P.M.  ANNUAL BANQUET

SATURDAY, OCTOBER 15th, 1955

9:30 A.M.  SHOPPING, PACKING

1:00 P.M.  LUNCHEON — Ball Room

2:00 P.M.  AWARDS  
  G. Morton Wolfe, presiding
THE COMMUNITY WAR MEMORIAL
ROCHESTER, N. Y.

WAASDORP AND NORTHUP, Architects
Partner in charge of design, ROGER O. AUSTIN
ROBESON & WOES, Mechanical Engineers
BENJAMIN OLNEY, Acoustical Engineer

The Community War Memorial for the City of Rochester was designed to provide a civic building of sufficient seating capacity and working facilities to accommodate all types of public events and assemblies and to provide much needed offices and meeting rooms for veteran groups. It is located on a downtown site adjacent to the business district and is bounded on three sides by major streets and on the fourth by the Genesee River. As the second unit of Rochester's Civic Center, the building has a limestone exterior with black granite trim and aluminum sash to blend with the Civic Center's first unit, the Rundel Memorial Library Building across the river. The master planning for the complete Civic Center is now underway, and it is expected that working drawings for individual buildings will commence shortly.

The basic components of the Community War Memorial consist of a horse-shoe shaped seating deck in an arena auditorium, a stage and stagehouse to the south, a memorial room over the north lobby, a pair of two story office wings one on each side of the auditorium and a basement which, in addition to service and storage areas, contains 55,000 square feet of exhibition space.

The auditorium has a clear span of 260 feet with a 43 foot clear height to the bottom chord of the steel trusses over the arena. Surrounding the arena is the permanent seating deck for 6,000 seats with additional temporary seating on the main floor for almost 4,000 more. These facilities are served by promenades circling the seating deck with vomitories providing access to individual sections. Public toilets and concession areas are distributed along the promenades. These are smaller than usual with more of them to ease circulation. The main arena floor is equipped with an 85 foot by 200 foot ice rink, suitable for professional hockey and ice extravaganzas. The refrigerant for the rink floor is circulated through 10 miles of 1 inch wrought iron pipe embedded in a monolithic, free-floating concrete slab. A portable wood floor will also be available to cover the arena floor and rink areas for basketball games. The basement of the building was originally designed as a bomb shelter, and as a result the arena floor itself consists of from 16 to 19 inches of reinforced concrete to shield against radiation and to withstand the impact of the entire building falling in on it. This, incidentally, will permit loadings up to 1,000 pounds per square foot.

The stage which is 100 feet long and 40 feet deep is equipped with fly gallery and gridiron and is of sufficient size to accommodate large choruses, patriotic presentations or other events requiring a large cast. Underneath this unit are two stories of dressing rooms, storage space and service rooms.

While economy and ease of maintenance has been the keynote in the choice of materials for the building, special attention has been given to the memorial room consistent with its consecration to the memory of Rochester's War Dead. Physically separated from the noise and bustle of the rest of the building, the room...
is finished in travertine, terrazzo, bronze and walnut, and is designed as a dignified and appropriate background for the memorial character of the room.

Veteran facilities in the office wings consist of 18 offices and 8 meeting rooms which may accommodate a total of 700 persons simultaneously.

Within the basement exhibition space which is served by a vehicular ramp, it is possible at any point to set up a full-size one-story house complete with all mechanical facilities. A difference in grade between street elevations and the river bank permits the basement exhibition hall to open out on the outdoor plaza between the building and the river wall, thereby allowing the public to enter this convention space independent of the rest of the building and providing convention goers with unusually pleasant surroundings. In this connection, it is possible to have a hockey game in progress on the main floor, a convention exhibit in the basement, a memorial service in the memorial room and numerous individual meetings in independent rooms all going on at the same time with no cross-circulation. Another advantage due to the difference in exterior grades was the opportunity at the main entrance to get people into the building midway of the seating deck.

Particular attention was paid to the acoustics of the building with an acoustic roof deck covering the entire auditorium and varying sizes of acoustic sound absorbing board panels on the end walls. This is coupled with a flexible public address system for paging and program use which is piped all through the building. Microphone circuits include pick-up jacks located at 79 points, and the entire sound system employs over 180 speakers of varied design. In addition an intercom system provides instant two-way phone service between any or all of its 24 operating points. The phone system also includes pay phones for the public and the building’s own switchboard for incoming and outgoing calls.

Two control galleries, each 150 feet long and on either side of the building, are located above the seating deck overlooking the auditorium and equipped for cameras, radio and television. There are individual police, first aid and broadcast rooms and separate locker room facilities for teams, umpires, janitors, ushers, and maintenance employees in addition to stage and orchestra dressing and locker rooms. There are three elevators in the building, one for general freight, one to the main floor for stage dressing and teem rooms and one to the memorial room for dis-
abled veterans. All equipment for the building requiring personnel for handling has been standardized for operating economy and designed for speedy erection and disassembly.

The mechanical systems in the building, as has been suggested above, are many and varied. For example, there is more electric power available than in an area equal to three city blocks. Houseslights are accessible from more than 1500 feet of steel catwalks in the truss space over the auditorium, and it is possible to produce 100 foot candles on the arena floor from 43 feet in the air. All D.C. spotlights are on elevator platforms for flexibility of handling under different conditions. The building is equipped with a panic-proof stand-by electric system in case of a power failure.

The heating system is supplied from city high pressure steam and eight units supply filtered and tempered air to the auditorium at the rate of 200,000 cfm and to the basement exhibition space at the rate of 106,700 cfm. In addition four roof purge exhaust fans, each rated at 21,000 cfm are located over the auditorium proper. The complete ventilating system includes 53 motor-driven fans varying in capacity from 520 to 50,000 cfm with from fractional to 25 horsepower motors. 100 tons of sheet metal was used to fabricate ductwork and equipment housings.

There are 46 toilet rooms and 12 shower rooms in addition to drinking fountains, concession and service sinks, and a sprinkler system with water flow alarm devices in the building engineer’s office is located in each of the building’s five basement fan rooms.

To assure flexibility and to allow for future changes, all mechanical services are brought to alternate columns in the basement exhibition space, and at strategic points in the building, 8 inch welded steel communication ports are run the full height of the building and tied in with horizontal ducts at certain places so that future services may be run with a minimum disturbance to the existing structure.

The quantities of materials required for this 6,700,000 cubic foot structure are considerable as the following list indicates:

- 55,000 feet or 75 carloads of limestone
- 2,800 tons of structural steel
- 430 tons of reinforcing steel
- 30 carloads of structural facing tile
- 100 truckloads of loadbearing tile
- 20 carloads of common brick

The total of the six prime contracts (General Construction, Heating, Ventilation, Refrigeration, Plumbing and Electrical) to date is $5,400,000.00.
National's Research & Engineering Center, located on the Northwest corner of Peabody and Elk Streets, comprises two buildings — a Research & Development Building and an Engineering Building — joined by a vehicle gateway opening onto Elk Street. It will provide chemical research and development service to all National Aniline Division plants and facilities located throughout the United States.

The buildings are of fire-resisting construction and are sprinkled throughout. Construction is steel frame on H piling to rock; brick exterior walls with celoconcrete block back-up, continuous windows of glass, glass block and stainless steel; reinforced concrete floor and roof construction — Research; slab on ground and slab on bar joist flexjs, Kalotile on long span joist roof construction — Engineering.

The Research Building is a three-story structure 337' x 58' with a floor area of 36,500 sq. ft. devoted to laboratories and 20,000 sq. ft. for offices, library and service facilities. A one-story wing 111' long, extending north of the three-story structure, is occupied by Dye Application Research. Totally, the Research Building contains 63,000 sq. ft. and provides for an initial occupancy of approximately 165 persons.

The Engineering Building, two stories in height, corresponds architecturally to the Research Building and together comprise a center for technological service. The Engineering Building is 208' x 58', with a total floor area of 23,000 sq. ft., providing for initial occupancy of approximately 135 persons.

The Center is the result of a long period of study and research on the part of National Aniline, and the close cooperation between their Engineering and Research Departments and the Architects. Their assistance was invaluable in working out the many intricate problems which such an undertaking entails, and they were most generous of their time.

Research contains 19 typical laboratories, approximately 32' x 24' exclusive of Dye Application wing. In addition, there are 7 laboratories and special equipment rooms 18' x 24', suitable chemical storage and supply rooms, a glass apparatus fabricating shop, and a machine shop for research requirements. Group leaders offices are located adjacent to their laboratories, with separate rooms for washing glass ware.

Typical laboratories have 2 wall and 3 island benches, giving a total of 92 linear feet of bench space. Most of the benches are equipped with agitators,
powered with a separate motor for each bench. At least two fume hoods are installed in each room and a separate exhaust fan is provided for each hood. Hood exhaust ducts are transite and will handle approximately 1200 cu. ft. of air per minute. Copper piping is installed on benches and services provide water, steam, air, vacuum, gas and electric, with distilled water to certain benches. Average occupancy of a typical laboratory is 6 men. The walls of the laboratories, corridors, and most of the rooms in these areas are a light mottle green glazed structural tile.

Piping and conduits are of fundamental concern in a building such as Research; they must be orderly, have a minimum of exposed piping, and the concealed piping made accessible. This was accomplished by running the main supply lines from the Fan Rooms at the Ground Floor corridor ceiling. Take offs at the center of each typical laboratory extend approximately 9 ft. into the room and lateral from this point the length of the room. From these supply lines, at the Ground Floor ceiling services are supplied to the benches by extending through the Second Floor slab above into the benches, and dropping down to the Ground Floor benches, wherever they occur. Vertical supply shafts are provided in each laboratory, at the center of the corridor wall in all typical laboratories, and this same distribution occurs at the Second Floor ceiling for Third Floor service. At the corridor wall corners of each typical laboratory, adjacent to the

hood, are similar shafts which contain exhaust ducts to the fans on the roof, together with waste lines, which drop down in a majority of the vertical shafts. These vertical shafts in each laboratory are made up of 7/16" integrally colored asbestos panels matching the walls. They are supported on slotted pressed steel studs forming a fire-resisting enclosure; the panels being removable to allow access to the piping. The lines on the laboratory ceilings are enclosed in a similar manner, so that most of the laboratory piping is concealed, while at the same time, access to the lines is possible when occasion arises.

The Lobby of the Research Building is semi-circular with terrazzo floor, light birch flush panelled walls, stainless steel doors, cove lighting, and a decorative frieze representing the graphic formulae for chemical compounds common to National Aniline’s operations.

The Engineering Building provides offices for Engineering administration and supervision, printing and photography, mechanical and power service supervision, purchasing, long range planning and public relations. A large drafting room on the Second Floor has north light and the offices on each floor are set apart by flush steel partitions.

The Lobby of the Engineering Building has green terrazzo floor and stair treads, sand color tile walls, red granite stair facing and low dividing walls; stainless steel doors, stair risers and balustrade; and a decorative frieze consisting of 12 symbols in stainless steel and brass, representing devices developed by and used in Engineering.

The greater portion of the Engineering Building and the office portion of Research is Winter and Summer air conditioned. Air in the laboratories is exhausted through the hoods by the roof fans, which run continuously while the building is occupied and is capable of changing the room air every 4 1/2 minutes. Over-night heat and supplementary heat during the day is furnished by hot water baseboard radiation.

The project was completed in the Spring of 1955 and formally opened with Open House ceremonies May 19 through May 21. Siegfried Construction Company was General Contractor; Quackenbush Company, Heating and Ventilating Contractor; Carl Grimm, Plumbing Contractor, and Volker Brothers, Electric Contractor on the Research Building; George D. Clucas, Plumbing Contractor, and Ferguson Electric Construction Company, Electric Contractor on the Engineering Building.
NEW YORK COLISEUM

OWNER: Triborough Bridge and Tunnel Authority — Honorable Robert Moses, Chairman
ARCHITECT: Leon and Lionel Levy — New York City
STRUCTURAL ENGINEER: Jacob Feld, Ph.D. — New York City
MECHANICAL ENGINEER: Guy B. Panero — New York City
GENERAL CONTRACTOR: Walsh-Fuller-Slattery — New York City

The building has three main functional parts — a Garage for 800 cars, occupying two sub-surface floors — the Coliseum proper, which has over 300,000 square feet of open area on four main exhibition levels, plus intermediate or mezzanine floors and storage spaces — and the Office Building which has twenty floors, the lowest rentable one of which begins at the Coliseum roof level.

The three functional divisions do not conflict in any way in the matter of access or transportation facilities, but these items are integrated in such way as to provide ease of movement and management control at all times between the various areas, where necessary.

The Coliseum itself provides a vast area for exhibit or show purposes, which can be used wholly by one large show, or in part concurrently, by several different ones.

There is no fixed seating, nor is the building designed as a sports arena, similar to Madison Square Garden. It is not contemplated that it will be used for the accommodation of seated delegates at a convention, although the large halls could be filled with a large number of temporary seats, should the necessity arise. Many meeting rooms of various sizes have been provided, at the various levels.

A great effort has been made in the planning to attain a degree of efficiency in trucking movement and in the unloading and loading of the display merchandise and equipment for each show. Large elevators have been provided for this purpose (one being of 75,000 lbs. capacity and 48' long to accommodate a fully-loaded trailer truck) and drive-in access is possible to both the street level Exhibition Hall and the Main Exhibition Hall (22'6" above grade) by direct
door openings and ramps. These, in addition to the off-street truck concourses and loading platforms, will ensure the virtual elimination of the traffic problem usually caused in city streets by similar operations where no such provisions have been made.

The construction of the building to the top level of the Coliseum is of reinforced concrete. Conventional steel and concrete design is employed above this level. Floor loadings are 300 pounds per square feet on the first two exhibit levels, 200 pounds in the first Mezzanine level and 150 on the second Mezzanine level. These loadings will enable normal sized trucks to be driven safely in any floor, and the largest trailers on the lower floors.

The building is well provided with service and back-up storage space, so that exhibitions will find adequate facilities in this regard.

The exhibition floors are honey-combed with a system of under-floor ducts, through which electric power, gas, compressed air, water, drainage and other service may be supplied to the individual exhibitor's booth area, at any part of the exhibit floor.

The exterior of the building is of gray brick with a darker gray used in the window spandrels of the Office Building. The base course of the building is mahogany granite veneer.

The cost of the structure will be approximately $33,000,000.00.
The Elmsford, N. Y. branch Office-Warehouse for the Anchor Fence Co. was designed to meet the growing needs of a nation-wide organization which realizes the need for scattered sales facilities which have on hand a supply of materials to meet immediate demands.

This branch has a sales area which includes Westchester, Putman, and Duchess counties in New York State, Fairfield County in Connecticut, and will probably expand this territory when the new Nyack-Tarrytown bridge is opened.

The site selected is on a state road in an area that was a swamp for many years. This fact necessitated a great deal of fill and the use of piles to support the building. Concrete filled steel piles were used with connecting reinforced concrete grade beams.

Building is constructed of hollow concrete block construction with a bonded brick veneer on the exterior walls of the office part only. Door and window trim is of limestone. After the installation of 'under floor' utility lines a reinforced concrete floor was poured in order to establish a platform from which to erect the walls, partitions and roof.

Outside dimensions of the building are 44' x 44' which provides for approximately 800 sq. ft. of office space and 1000 sq. ft. of warehouse area. Office and warehouse are divided by a masonry bearing wall which supports the wood roof beams at the different levels. Office ceiling is 9'-0" and warehouse ceiling is 12'-0".

Office space is divided into a general administrative and reception area, a salesmen's office and a private office for the sales manager. Toilets and heater room fall within this area. Floors are asphalt tile, walls of decorative plywoods and ceiling of acoustic tile.

Warehouse space will have concrete floor, exposed block walls, and a sheetrock ceiling. This area is used for the storage of small parts. Fencing is stored in the open yard.

The walls and ceiling of the office section are insulated as is the ceiling of the warehouse. Windows are aluminum projected type sash.

Heating is by a forced warm air, gas fired unit. Lighting is generally fluorescent with incandescent lights in the warehouse.

Piles were driven by The Underpinning and Foundation Co. of New York and the DeLuca Construction Co. of Elmsford has the general contract. Cost of piles, $5,100.00. General contract is $29,665.00 which includes the pile caps and grade beams. Cost per square foot, including sub structure work, is $15.00. Cost per cubic foot, including sub structure work, is $1.32.

Cost of land, landscaping, and paving of outside storage areas is not included in the above costs.
The overall design and approach for the Jewish Orthodox Synagogue and School for Young Israel of Syracuse has been molded around the traditional and ritualistic requirements.

The site, although small in size, is ideally located in the center of Jewish activities in the City of Syracuse, and within easy walking distance of its members. The entire building serves as a spiritual, educational, and social background for its members.

The building is divided into various sections which may be independently utilized or combined for the various functions and religious programs. The major portions of the building consist of:

A. — Synagogue, providing seating for 256 men and 228 women. The women are seated separately, elevated above the men's seating area, and screened therefrom. Expansion for seating, for high holy days, is primarily provided for the men, on the lower level. The approximate total requirements for women have been met, or can be increased by seating in a balcony over the social hall. The bema and ark are designed in a traditional manner.

B. — The daily chapel and rabbi's office are separated from the synagogue and adjacent thereto, along with a lounge and rest area. This area is to be used dually as much as possible.

C. — The social hall and kitchen are separated from the synagogue proper by folding partitions which allow for expansion to the synagogue and also provide a hallway between the synagogue and social hall for circulation purposes. The social hall has a stage with dressing areas adjacent, and a balcony designed for future addition. The kitchen, adjacent to this social hall, is designed to maintain orthodox Jewish requirements, separating dairy products from the meat products, etc.

D. — Above the daily chapel, office, lounge and kitchen area, future classrooms are to be installed. The stairway adjacent to the kitchen and to the bema and daily chapel will be extended to the second floor area at its time of construction.

E. — A large lobby, with coat room, is provided on the north side of the building, which will become the main entrance to the building. Unlike other religious buildings, the members of this synagogue must walk to services, so a larger than normal lobby area is a requirement in inclement weather, and to also provide necessary space for other ritualistic matters.

The exterior of the building, particularly of the synagogue and social hall, or major portion, was dictated by the inclusion of future balcony and also from an acoustical standpoint, since no mechanical devices (public address systems, etc.) are allowed. The lobby wall ornamentation is of cast stone with a raised design motif, consisting of the Star of David. The curved brick wall will become the background of a piece of sculpture of some religious significance.

The entire structure is of structural steel masonry with brick exterior, except for the aforementioned stone panels.
THE MILTON STEINBERG HOUSE
NEW YORK, N. Y.

KELLY & GRUZEN, Architects
S. ROBERT GREENSTEIN, Associate Architect

PRINCIPAL DESIGN FEATURES:

The Milton Steinberg House is a five-story and basement building, of reinforced concrete frame, in which the entire facade is sheathed with a stained glass mural — making it the first known building in the world having a facade completely fabricated of stained glass.

As an extension to the Park Avenue Synagogue (a conservative congregation of some 750 families), the structure was planned to provide new and more adequate facilities for the educational and social activities of the congregation; and also to honor the memory of the late Rabbi Milton Steinberg, spiritual leader of the congregation from 1933 until his untimely death at the age of 46 in 1950. (Rabbi Steinberg was renowned as a scholar, writer and lecturer on problems of Jewish Life. He was the author of: "Making of the Modern Jew," 1934; "As a Driven Leaf," 1940; "Partisan Guide to the Jewish Problem," 1945; "Basic Judaism," 1945.)

The architectural treatment of the Milton Steinberg Home is contemporary in approach, with its design aimed at blending with the traditionally religious character of the adjacent synagogue — though remaining sufficiently different to achieve its own identity as a separately functioning unit. Its functions, both as a religious and community building, and also as a memorial, are emphasized by the stained glass facade upon which a group of murals by artist Adolph Gottlieb depict various holidays and traditions of Jewish life.

This technique represents a departure from tradition through the introduction of an entire facade covered with a skin of stained glass rather than just a series of separated windows. The design embodies 1,500 square feet of glass comprised of 91 individual window panels covering four floors. One third of the glass is designed and painted to contain 21 individual, abstract paintings portraying the religious holidays and traditions. Each of the 21 paintings is repeated four or five times at different points on the facade, forming a "checkerboard" pattern against a background of traditional, diamond-shaped stained glass panes which compose the remainder of the facade.

The paintings are on "antique glass" imported from Europe; the diamond-shaped panes are an American made "marine antique" glass.

The facade was designed to show off the glass to its fullest extent by eliminating all spandrels and reducing the visible floor construction to a thickness of 2 1/2 inches, which is covered by an aluminum member. As all mullions, both horizontal and vertical are 2 1/2 inches, the structural elements do not interrupt the glass facade. The stained glass will extend from floor to ceiling in each room. A number of the individual glass panels on each floor level can be opened as windows for ventilation.

EMPIRE STATE ARCHITECT
Unlike former uses of glass, the facade is designed to have meaning from the exterior as well as from the interior. Since the vivid and varied colors of the murals occupy larger spaces and areas, as painted surfaces, than is ordinarily found in stained glass, the colors are subdued but yet visible from the outside.

Other art work is found in the chapel where the ark doors and menorah (religious candelabra) consist of sculptured bronze by Calvin Albert.

GENERAL FACILITIES:
Basement — Lounge, assembly hall (400 capacity), kitchen. 1st Floor — Lobby, offices, chapel at rear seating 90. 2nd Floor — Library, school and misc. offices, 2 classrooms. 3rd Floor — Large classroom seating 35; 2 classrooms seating 20 each; folding door separation between rooms affording flexibility of arrangements. 4th Floor — Rabbi's Study; 3 classrooms. 5th Floor — Cantor's Studio; Music Room; 2 classrooms with protected play areas on roof.

Air Conditioned areas: Chapel, offices, lounge and assembly hall; classrooms may also be air-conditioned when assembly hall is not in use.

Total Areas: 180,000 cu. ft.; 17,200 sq. ft. (and roof play: 2,300 sq. ft.)

Cost: $480,000 (including necessary alterations to existing Synagogue). Financing through voluntary contributions of congregations, with following principals involved: Sanford H. Cohen, Chairman, Board of Trustees; Saul Godwin, Chairman, Building Committee; I. M. Cohen, Chairman, Fund Raising Committee; Milton Weill, Co-Chairman, Fund Raising Committee. Others involved in planning and construction: Heinigke & Smith, Stained Glass Fabrication; Eleanor Pepper, Interior Consultant; Jack Aronov, Structural Engineer; Wm. Dusenbury, Mechanical Engineer; H. R. H. Construction Corp., Supervising Contractors.
Construction has started on the new residence of Mr. and Mrs. Robert J. Daly in the estate section off Fort Hill Road in the town of Greenburgh. Mr. Daly is president of the American Litho Craft Company.

The architects, Crozier and Sirine, have taken advantage of the pleasantly rolling site and its specimen trees to design a contemporary home that promises many delightful surprises.

The entrance drive curves up the hill, through a grove of pine trees, to the carport. The covered flagstone walk continues into the house, by way of the entry and foyer, and one is pleasantly surprised to see the secluded flagstone terrace and pool in the court beyond the foyer. The sloping ceiling of the foyer carries the eye into the living room, where the exposed timber beams and the stone fireplace wall with its built-in aquarium again delights the visitor.

The architects have utilized the sloping site to completely separate the sleeping area of this home from all activity areas. Below the study and dining room the change in grade has made it possible for the architects to provide a playroom, bath, and hobby room, fully above the grade and accessible from the outside.

Construction of the Daly residence is being done by Rayback, Inc. of Port Chester, New York.

NEW BRANCH FOR THE H. O. PENN MACHINERY COMPANY

Frank Kronfeld, Architect

This new branch of the H. O. Penn Machinery Company is located on Stewart Ave., Westbury, L. I., N. Y.

It is one of three branches located in Poughkeepsie, N. Y.; Newington, Conn.; and Westbury, L. I., N. Y. The main office is in the Bronx, N. Y.

This building is of the most modern design for sales and servicing of heavy construction equipment and covers over 41,000 square feet on a 4½ acre plot.

The show room is centrally placed surrounded by offices and parts sales so that everyone entering the building can view the display of the latest models of equipment. Parts storage is convenient to the parts sales and to the repair shop. The shop is equipped with traveling cranes covering the entire working area. Each of the working areas in the shop have separate overhead doors for moving large equipment in and out with the least inconvenience. A concrete driveway goes around the entire building with loading ramps and docks for receiving and shipping of equipment.

The exterior of the office portion of the building is warm buff brick, the shop, etc., of concrete blocks painted to match with aluminum windows throughout. The entire building is heated by radiant floor heat and the office area and show room are air-conditioned using water from an artisan well on the property.
The new quarters for the Automobile Club of Buffalo will be located on Delaware Avenue, just south of West Utica Street. It is being constructed with fire-resisting material, on a site which will provide parking for approximately fifty automobiles.

Travel Department and Lobby will be located on the First Floor, immediately accessible to the General Membership from the Avenue and Parking Area. All of the routes, requested by Members for automobile travel, will be planned in this area.

Adjacent to the Lobby will be the Safety, and All Inclusive Offices. The Safety Office is the Club's headquarters for its activities in the field of safety on the road, also for its activities in connection with the Club's cooperation with Traffic Officials, Government Agencies, and schools in their campaign for safer driving. In the All Inclusive Office, members may obtain all information desired or required for automobile travel in foreign countries.

The Editor and Staff of the Club's paper, "The Motorist," will occupy the office adjacent to the stairway. Bookkeeping, Membership, and Machine Room Offices will house the normal business operations, such as accounting, mailing, etc., necessary to rendering service to its membership of approximately 40,000. Activities of the Emergency Road Service will be carried on in the E. R. S. Office.

The automobiles used for the Driver Training courses, conducted by the Club, will be stored in the Garage, when not in use.

Offices for the Executive Secretary, Assistant Executive, and their Secretary will be located on the Second Floor. A library for research on traffic safety, traffic laws, etc., will also be on the Second Floor. Rooms for other services and activities of the Club will be located in the Basement.
Original "Y" shaped buildings, terraces and the use of prefabricated concrete core panels for variety in wall treatments are special features for the Linden Housing Project, designed by the architectural firm of Joseph and Vladeck.

A middle-income project under the City's program, Linden Houses will provide homes for 1590 families in sixteen 8-story and three 14-story buildings. The Project will be located at Stanley and Schenck Avenues in Brooklyn.

The three 14-story structures included in the Project will be "Y" shaped, with the three wings joined at the hub by a narrow central core containing connecting hallways and terraces. This is a new type of unit and will be the first of its kind in housing projects. This design will insure a maximum of light, air and privacy to the occupants of each wing of these buildings.

The other sixteen buildings in the development are of the same basic design, except that they will consist of only two wings joined by a narrow central core.

Every floor will feature an open terrace, serving as an outdoor living room for the tenants. These terraces are enclosed with steel mesh as a safety measure, and are intended as convenient sunning areas for infants in carriages and toddlers.

One of the interesting features of the design plans will be the possible use of prefabricated concrete panels for the outside and inside surfacing of the central hub of each building. Alternate possibilities to this surfacing material are indicated in the bid specifications. These include either grey or blue faced, smooth textured brick. The final choice of prefab concrete or smooth brick for the paneling of the hubs will be determined by relative costs and other construction factors.

The building wings will be surfaced with red brick, and the use of a contrasting color and material on the connecting hubs will give each building a pleasing, two-tone color scheme. The steel enmeshed outdoor terraces located in the hubs will provide an additional color variation in the overall pattern.

Open breezeways paved with flagstone, located at the bottom of each central hub in the "Y" shaped buildings will serve as entranceways to the wings of the buildings. An additional design feature will be the extension of the flagstone flooring into the separate, enclosed lobbies of the individual wings.
LINDEN HOUSES

JOSEPH and VLADECK
ARCHITECTS
150 SOULE AVE. NEW YORK 24 N.

"Y" BUILDINGS
(TYPICAL FLOOR PLAN)
BLOWS NOS. 5-8-14

SCALE IN FEET

STRIP BUILDINGS
(FIRST & TYPICAL FL. PLANS)

EMPIRE STATE ARCHITECT

(More)
Except for one section in each of the three "Y"-shaped buildings, all wings will contain only four apartments on each floor. With the exception of the 42 one bedroom units in these three wings, all the apartments will have corner layouts, with two exposures and true cross ventilation.

Specially designed aluminum window frames will be used throughout. These frames will divide the windows into three sections: the top panels opening outward, the middle panels fixed and the bottom hoppers opening inward only four inches to provide maximum safety for families with small children.

Planned primarily for families with children, Linden Houses will contain 1092 four and a half room apartments and 336 five and a half room apartments. There will also be 162 three and a half room units. Rents will average about $20 to $22 per room a month.

The new Project will cover an area of six square blocks, a total of 32.68 acres. The buildings will cover only 12% of the land and the remaining 88% will be landscaped with walks, lawns, benches, parking space and five play areas. The apartment structures will be grouped around the play areas and several large lawns in a pattern reminiscent of the village commons of early American history.

In creating the "Y" shaped buildings the architects, Joseph and Vladeck, explored all types of units that were ever built both in this country and abroad. After intensive research the architects came up with a new type of design which met all the rigid requirements of the New York City Housing Authority.

The architects predict the "Y" shaped buildings will be a forerunner in projects of this type and will be referred to much the same as a Cross Plan, a "T" Plan, an "H" Plan, a Strip Plan, etc.

The success of this type unit is assured since it is now proposed in two other projects by the Authority.
ST. JOHN the BAPTIST CHURCH
Rome, New York

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(below) CLOSE-UP shows loose lock cross seam—constructed as recommended in Revere's 110-Page booklet, "COPPER AND COMMON SENSE." Do you have a copy?

(Right) HOW BATTEN LOOKS before capping. Note that cleats are nailed to the sides of the batten. This is done to prevent future trouble, as the wind blowing over a roof causes an up-lift on the roofing pans. If the batten was nailed on the top, the nails would be subjected to a shearing action that does not tend to loosen the nails. Two nails are always advisable for maximum security.

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Are Retained Percentages Too High?

Many building professionals believe they are. Results of a recent conference study support the belief and offer a way to better the situation.

Results of a conference of construction industry executives held in New York the latter part of March may prove to be an incentive to lower building costs. Called by the Producers’ Council and the National Association of Credit Men, the meeting was the second to be held this year with the object of studying the problem of frozen credit resulting from the building industry practice of retaining part of the payments due contractors for completed work on construction projects.

Out of the conference came a recommended procedure which it is hoped may eventually become standard practice for the industry. The procedure is largely the work of William Stanley Parker, F.A.I.A., of Boston, and Faneuil Adams, L.L.B., who were consultants to the conference. It is the result of a detailed study of the retained percentage question and was adopted by the conference as a practical way of freeing hitherto frozen construction funds.

Recommendations are essentially these: Ten percent of payments to contractors should be retained until the work is 75% complete; and thereafter the retained amount should be five percent.

The Parker-Adams report pointed out that the procedure applies primarily to lump sum contracts for private work, whether bonded or not, and is designed to conform to the requirements of the A.I.A. Standard General Conditions. Also, it recognizes that the interests of owners, contractors, subcontractors and suppliers are all involved in provisions governing applications and certificates for progress payments under a general contract.

The report says, in part:

"Under average normal conditions, a retention of 10% on payments is reasonable during the early stages of the work, but when the work approaches substantial completion, such retention becomes unnecessarily burdensome. It can properly be reduced to 5% after the entire work is 75% complete, on those divisions of the work which are themselves 75% complete. This adds an element of complication in the Application Form for subsequent payments in order to show the retentions on the different divisions of the work, some being 5% and some 10%. No such complications, however, are present during the first three quarters of the work, or after all divisions of the work are at least 75% complete."

So far as is known, this is the first comprehensive study that has been attempted on a subject that has long been a source of annoyance and often substantial financial hardship on the part of contractors and material suppliers. Conference discussions indicated that all segments of the construction industry recognized the desirability of retaining some proportion of due payments on behalf of the owner. But the Parker-Adams study showed that custom on the percentages of retained payments varied.

"Fifty years ago 15% was customary. Since then it has gradually become customary to reduce the percentage in different ways. Many contracts now customarily use 10%. Much government work is now based on retaining 10% until the work is half done, accumulating a retention of 5% of the total contract price, thereby paying 100% of the value of subsequent work. Many contracts still retain 15%.

Conference recommendations, including the Parker-Adams report, do not propose the setting-up of rigid procedures. The object was to arrive at a reasonable method for protecting the owner's interests and at the same time afford as much financial relief as possible to contractors, subcontractors and suppliers. And it should be emphasized that percentages recommended may be even lower in instances where other procedures provide adequate protection for the owner.

Following is a suggested amendment to Article 4 of A.I.A. Form A-1 as proposed in the Parker-Adams report to the conference.
Article 4. Progress Payments. The Owner shall make payments on account of the Contract as provided therein, as follows:

On or about the ............ day of each month .......... 90 ...... per cent of the value based on the contract prices, of labor and materials incorporated in the work and of materials suitably stored at the site thereof up to the ............ day of that month, as estimated by the Architect, less the aggregate of previous payments, until such value amounts to 75% of the contract price; thereafter the retained percentage shall be reduced to 5% on portions of the work more than 75% complete, retaining 10% on portions not 75% complete.

All payments are on account of the contract price and do not constitute acceptance of any specific portions of the work. Full payment of the retained percentage on a portion of the work satisfactorily completed prior to the completion of the entire work may be made subject to the approval of the Architect upon submission of evidence that all payrolls, material bills, and other indebtedness connected with the work have been paid, and, if required, the submission of a written guarantee or bond covering correction of defects that may later be discovered in the materials or labor or operating requirements as required by the contract.

Note: The bold face portion is quoted from the Standard Agreement Form. The remainder of the printed clause may be crossed out and the balance of this provision typed in the blank space provided.

The Retained Percentage Conference was presided over by William Gillett, national president of the Producers' Council, and was moderated by Tyler Stewart Rogers. Participants were invited on the basis of their intimate knowledge of the subjects under discussion. Among them were H. R. Dowsewell, Shreve, Lamb & Harmon; David Q. Cohen, Association of Casualty and Surety Companies; George B. Roscoe, National Electrical Contractors Association; E. Vernon Roth, The Surety Association of America; Welton A. Snow, Associated General Contractors, and Clarence B. Litchfield, Litchfield & Partners.

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NEW YORK VA HOSPITAL BOASTS
RECORD-SETTING ARCHITECTURE

LaPierre, Litchfield & Partners, Architects

An architectural and structural record-setting achievement has been attained in the recently completed Veterans Administration Hospital in New York. The cavity wall process of design and construction has been used to a world record height of 19 stories.

The complete enclosure with masonry cavity walls of the big new hospital at 23rd Street and First Avenue in Manhattan marks by far the world's tallest use of the technique. The incorporation of this architectural development, which has previously been utilized much more extensively in Europe than here, in the $20-million, 1250-bed general hospital is hailed as a construction milestone by the architects, LaPierre, Litchfield & Partners (formerly Alfred Hopkins & Associates).

Masonry industry spokesmen declare the introduction of the cavity wall to construction of this size and scope could be a significant development for them. They will be watching signs of its acceptance and further use. The highly competitive industry — producers, contractors and labor — recently indicated concern for its economic health by forming the Allied Masonry Council to deal with various common problems.

Increasing use of glass and metal walls has created a threat, small at the moment but of dangerous potential, to masonry profits. The cavity wall could be an instrument of rehabilitation for the future of the masonry industry.

Composed of two vertical planes of masonry (called wythes) separated by a two-inch air space, the cavity wall is noted for greater durability and insulation.

(Continued on Page 83.)
THE CHARM OF

TEMPLE ISRAEL, ALBANY, N. Y.

Leon M. Edhorn, Architect
The intelligent choice of colors to properly blend together and produce an effect in harmony with the character of the building, its style of architecture and its surroundings, is a matter of vital importance. Brick architecture possesses a charm not surpassed nor inferior to any other building material.
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— Says George D. Sax
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George D. Sax' fabulous Saxony Hotel is still another example of America's blue ribbon buildings, coast to coast, that offers positive proof ZONOLITE plaster does stand the test of time! A recent check of famous structures, some over 20 years old, reveals Zonolite plaster to be in A-1 condition.

Thus, time tells the story in favor of Zonolite. And of course light weight Zonolite plaster cuts costs... saves time in application... affords the highest possible fire ratings. Building teams everywhere look to Zonolite plaster, the lightweight time-tested champion for better performance at lower cost.

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A COLD DRINK OF WATER

MALCOLM B. MOYER

The human body must have water. It can endure extremes of heat and cold, a lack of pure air, too little rest and sleep, but it must have water.

For years schools have been equipped with "Bubblers" or "Drinking Fountains." Thirty-seven manufacturers of these things are listed in the current "Catalog Directory" published by "Domestic Engineering." Each firm vies with its contemporary in the variety of designs which embody ingenious valves and fancy lip guards.

But did you ever drink from one of them?

One can forgive a spattered face, to relieve an urgent thirst, but "UGH"! What a disappointment! No wonder the kids play with the stuff, and try to spray each other.

Most public water supplies are now treated with Chlorine, and its pungent taste predominates tepid water.

Attempts have been made to install a central cooling plant, with insulated pipes carried to each fountain. In a large school the cost of insulation adds a noticeable burden on the cost of the refrigerating plant. On a tight budget this refinement is usually discarded, in a deductible alternate.

Nine of the thirty-seven manufacturers mentioned above have brought out compact water chilling units, with freon air cooled compressors, compactly arranged. A tiny motor silently drives the mechanism.

The water supply need not be insulated. The Contractor's cost is about equal to two of the usual kind.

Doesn't it seem wise to install half as many cool water centers of properly refrigerating drinking water? Instead of cluttering the class room sink with the overhanging bubpler, and the corridors and Gym with tepid water purveyors, why not take the same funds and equip the school with unit refrigerating coolers? Water properly chilled will subdue the heavy mineral and chlorine flavors, and the child whose thirst is really quenched when he drinks will be finally contented and attentive. This merits serious consideration.

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CONVENTION
GUEST SPEAKER

Members and Guests of the New York State Association of Architects will hear, as guest speaker at the 1955 Convention, Mr. Cameron Ralston.

Mr. Ralston has served as Director of Public Forums for the U.S. Department of Interior. He is a noted leader in the fight against crime and corruption and served as Secretary to the Chicago Committee of 100 during the Al Capone reign of terror. Mr. Ralston is a member of the American Flag Association and some of his suggestions have been enacted into laws which give the Federal Bureau of Investigation its present authority. Before beginning his career as one of the country’s most popular lecturers, Mr. Ralston served as a member of the Faculty of Washington & Jefferson University.

Cameron Ralston came to this country from his native Scotland in 1914 and fought with the AEF in France. Before completing his formal education, Mr. Ralston worked as a coal miner, and today he is special consultant to the Anthracite Industry Committee. Dr. John W. Studebaker, former United States Commissioner of Education, has described Cameron Ralston as a “dynamic speaker and a man of vision.”

N. Y. S. CONCRETE MASONRY ASSOCIATION MEETING

The Annual Meeting of the New York State Concrete Masonry Association will be held at the Hotel Sheraton-Ten Eyck in Albany on Friday, October 11, beginning at 9 A.M.

Reports of various committees, election of officers, and other business matters will feature the sessions. Several speakers are also scheduled to discuss matters of importance to the industry.

Officers of the Association include: John D. Daly, Auburn, President; Henry C. Quaritus, Jr., Brooklyn, Vice-President; Lawrence Dagostino, Schenectady, Treasurer; and Grant Reinhold, Buffalo, Secretary. Directors are: Harvey Black, Rochester; Mr. Dagostino; Garson Dinburg, Binghamton; William C. Homer, Syracuse; Mr. Quaritus; Frederick W. Reinhold, Buffalo; and Lee Taylor, Watertown. Robert Abbey, Buffalo, is Executive Secretary.

EMPIRE STATE ARCHITECT
NEW YORK — Some 70,000 churches and synagogues will be constructed or substantially altered in the United States in the next ten years at a cost of nearly six billion dollars, in the opinion of George Cline Smith, economist of F. W. Dodge Corporation, writing in the June issue of Architectural Record.

In addition, he estimates, there will be about 12,500 parish houses, Sunday school buildings and related buildings costing about one and a quarter billion dollars. Parochial educational buildings are not included.

The combined totals are 82,500 projects costing about seven and a quarter billion dollars. Mr. Smith's prediction is based on three assumptions: That there will be no severe depression, no major war, and no major change in the value of the dollar.

Mr. Smith said all of his figures and estimates are based on F. W. Dodge Corporation's Dodge Reports of contract awards for future construction in the 37 eastern states, with an adjustment to take care of the estimated volume in the other 11 states. The Dodge figures are the only ones available to indicate the total future volume of church construction.

"Current activity in church construction," Mr. Smith says, "is running at the highest rate in history. Contract awards for religious buildings in the 37 eastern states during the first three months of 1955 totalled $128 million. That's an increase of 60 per cent above the previous first-quarter record set in 1951, and 61 per cent above the first quarter of last year."

"The religious category in the first quarter of 1955 accounted for about seven per cent of all non-residential building awards. This represents an enormous growth, not only in dollars but in share of the market, during the postwar period."

"In the corresponding quarter of 1946, the first post-war year, religious buildings totalled only $17 million, and represented just 2 per cent of non-residential building."

"The spiritual significance of this trend should be obvious," he says. "The current upsurge of interest in religion is actually part of a long-term trend which has been expressed in rising membership of churches, both absolutely and in proportion to the population, through several decades. The outlook for church building is bright."

Mr. Smith says his estimates contemplate an average yearly level of activity over the ten-year period, lower than the current level. "It is entirely possible, therefore," he says, "that the estimate may be on the low side, in view of our rapid population growth, current prosperity and the increasing emphasis on church-going."
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SIX MEMBERS OF THE N.Y.S.A.A.
ELEVATED TO FELLOWS

Elisabeth Coit, New York; Frederick G. Frost, Jr., New York; Lloyd Morgan, New York; Donald Kenneth Sargent, Syracuse; Leonard Adrian Waasendorp, Rochester; and Julian H. Whittlesey, New York were among the forty-two members of the American Institute of Architects who were advanced to Fellowship in the Institute at the 1955 Annual Convention.

President of the A.I.A., Clair W. Ditch; Chancellor of the College of Fellows Alexander C. Robinson III; and Chairman of the Jury of Fellows William J. Bain, participated in the ceremony elevating the following list of members to Fellowship:

Alexander, Robert Evans — Los Angeles, California
Allison, George Boggs — Los Angeles, California
Armstrong, Harris — Kirkwood, Missouri
Barthelme, Donald — Houston, Texas
Bogner, Walter Francis — Cambridge, Massachusetts
Born, Ernest — San Francisco, California
Childs, Frank A. — Chicago, Illinois
Cirei, Anthony Salvatore — Cleveland, Ohio
Clark, Hervey Parke — San Francisco, California
Coit, Elisabeth — New York, New York
Cunningham, Harry Francis — Lincoln, Nebraska
Deitrick, William Henley — Raleigh, North Carolina
Dennis, John Cobb — Macon, Georgia
Emil Eichenbaum, Howard Samuel — Little Rock, Arkansas
Fisher, Louis McLane — Baltimore, Maryland
Flint, Noel Leslie — Chicago, Illinois
Friedman, Raphael N. — Chicago, Illinois
Frohman, Philip Hubert — Washington, D.C.
Frost, Frederick G., Jr. — New York, New York
Holmes, J. Lister — Seattle, Washington
Jamison, Thomas Worth, Jr. — Baltimore, Maryland
Kamrath, Karl Fred — Houston, Texas
Land, Theodore Oscar — Minneapolis, Minnesota
Langford, Ernest — College Station, Texas
Mann, Arthur — Hutchinson, Kansas
Morgan, Lloyd — New York, New York
Nes, Charles H., Jr. — Baltimore, Maryland
Pickering, Ernest — Cincinnati, Ohio
Polevsky, Igor Boris — Miami, Florida
Rebori, Andrew Nicholas — Chicago, Illinois
Reid, John Lyon — San Francisco, California
Richards, John Noble — Toledo, Ohio
Richmond, Isidor — Boston, Massachusetts
Rosetti, Louis — Detroit, Michigan
Sargent, Donald Kenneth — Syracuse, New York
Sondal, Dewey Anderson — Shreveport, Louisiana
Waasendorp, Leonard Adrian — Rochester, New York
Wheeler, E. Todd — Wilmette, Illinois
Whittlesey, Julian H. — New York, New York
Wilson, Fred Talbott — Houston, Texas
Wilson, Samuel, Jr. — New Orleans, Louisiana
Wright, Henry Lyman — Los Angeles, California

A.I.A. RELEASES FILM REPORT
ON CONTEMPORARY ARCHITECTURE

The American Institute of Architects, national organization of the architectural profession, has announced the release of a film report on contemporary architecture in America. Architecture — U.S.A. is a sound presentation of 140 color slides showing current architectural trends in homes, schools, offices, factories, churches, and other building types.

The film is the work of Ralph E. Myers, A.I.A., of the firm of Kivett and Myers, Kansas City, Missouri. In collecting photographs for the film, Mr. Myers travelled more than 50,000 miles and edited more than 10,000 color photographs by some of the nation's top architectural photographers.

Initial impetus was given to the project by a grant from the Arnold W. Brunner Scholarship of the New York Chapter, A.I.A., for "advanced study in a specialized field of architectural investigation." As a result of his work on Architecture — U.S.A., Mr. Myers has been awarded a second grant for additional work.

Architecture — U.S.A. has a running time of 26 minutes and may be shown on standard 16 mm. sound movie equipment. It has been planned for presentation before service clubs, school assemblies, women's groups and similar organizations.
NEW HOME COURSE AVAILABLE IN INDUSTRIAL SAFETY ENGINEERING

To meet the increasing need of industry for continued safety programs and practices, a new home study course in Industrial Safety Engineering has been added to the curriculum of International Correspondence Schools, Scranton, Pa., according to John C. Villaume, Dean of the Faculty.

With the increased use of automatic machinery and processes, management has become increasingly aware of the safety problem. The new I.C.S. course is an engineering approach to the solution and study of this problem.

In the introduction of one of the lessons, it is pointed out that industry's annual accident toll both on and off the job amounts to 48,000 worker fatalities, more than 85,000 permanent disabilities, and an additional 4,350,000 non-fatal injuries.

Prepared especially for home study, the Industrial Safety Engineering Course is designed to help industrial supervisors in charge of safety, industrial engineers who desire safety training, safety representatives of labor departments, and those whose responsibilities would call for a knowledge of safety practices in industry.

Comprised of 41 lessons requiring an estimated average study time of 650 hours, the Industrial Safety Engineering Course provides instruction in mathematics, machine sketching, blueprint reading, industrial psychology, handling of materials, plant and production equipment layout, and safety principles and practices.

The new course has been made available on the I.C.S. Selective Plan which permits employers to select only those instructional units which meet an immediate and specific need.

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BERLIN INTERNATIONAL CONFERENCE HALL

The American Institute of Architects was host to a gathering of government officials to view the designs prepared by Hugh Stubbins, Jr., of Lexington, Massachusetts, for an international conference hall to be erected in the western sector of Berlin. A.I.A. President George Bain Cummings of Binghamton, New York, welcomed the group and told of the national professional architectural society's enthusiastic support of the project. The permanent conference build-

ing will be available to the German city as the result of the A.I.A.'s cooperation with the United States Government in its program in support of Berlin. At the request of the Department of State, the A.I.A. set up a special architectural advisory committee to furnish guidance in the planning and design of the project and in the selection of the architect. A former Institute president, Ralph Walker of New York, New York, is chairman of the committee and there have served with him former 2nd vice-president Howard Eichenbaum of Little Rock, Arkansas, Moreland Griffith Smith of Montgomery, Alabama, Nathaniel A. Owings, Chicago, Illinois and John F. Harbeson, Philadelphia, Pennsylvania.

The Berlin building, to be erected near the Tiergarten, will provide space for conventions, conferences and exhibitions and will serve to bring together people for a free exchange of ideas and opinion in the arts, sciences, letters, government, or other significant matters. It will fill an urgent need in the reconstruction of the political and cultural life of the city.

To be completed in the summer of 1957, at the time of the opening of the Berlin international building exposition, the building will be dedicated to Benjamin Franklin. This is a particularly appropriate tribute on the 250th anniversary of the birth of the early American statesman who served his country and the world in promoting mutual understanding and good will between nations.

The mayor and other Berlin officials are enthusiastic about the pre-
liminary plans for the project. Arrangements have been made for a Berlin Government contribution to the enterprise which will be financed in part by the new Berlin dollar aid program. It is estimated that the total cost of the building proper will be three million dollars. By utilizing advanced building techniques and imaginative planning, Stubbins has developed a design that will provide — effec-
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When you plan construction for chemical installations, why not discuss your building needs with Siegfried? Experienced engineers familiar with the problems of the industry are at your service. You are under no obligation when you call Siegfried for a helpful conference. Just phone ELMwood 4124.

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The chart below, which shows relative cleaning costs, is typical of the valuable information included in American-Olean Booklet 600, “Tile for Schools and Hospitals”. This free booklet is illustrated with a wealth of color photographs of actual tile installations, and gives you complete tile description for each installation.

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<th>Project</th>
<th>Location</th>
<th>Architect</th>
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<td>New York, N. Y.</td>
<td>Skidmore, Owings &amp; Merrill</td>
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<td>St. Vincent's Hospital</td>
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powers than the conventional wall, particularly for a high resistance to moisture. It has been used seldom in the U. S. until the end of World War II, but La-Pierre, Litchfield, among the strongest supporters of the cavity wall in this country, pressed for its acceptance in the design for the large VA unit.

The VA liked the idea and the project gave the U. S. a record-making structure in this type of masonry construction. The new hospital is many stories higher than any other cavity wall construction in this country or abroad. Built on steel piles sunk down to resistance with poured concrete foundation, it is constructed of 12-inch modular glazed grey brick on a dark red brick base recessed two inches at the foundation. T design in shape, the building also has a light red brick used for the central core for color contrast.

The four-to-six-inch inner wythe is the load-bearing portion of the wall. Constructed of center concrete units, it rests directly on the lightweight concrete floor. The outer wythe of brick is four inches thick, supported by 5×5×7/16-inch angles attached to span-drel beams, 11 feet, 8 inches apart vertically.

The two wythes are tied together only by bronze Z-anchors a quarter-inch in diameter, spaced 16 inches apart vertically, 24 inches horizontally, staggered. The anchors are crimped to prevent any transmission of moisture between the wythes. The window jambs are moisture-proofed with continuous caulking strips and drips which deposit water in the cavity. which in turn is drained by staggered weepholes in the outer wythe just above shelf angles and grade-level supports. There is continuous flashing in the cavity at grade level to drain the water to weepholes and avoid any seepage into building or foundations.

Careful inspection of portions of the wall when they had been up for more than a year revealed no evidence of water penetration to the interior wall at any point. If the cavity wall proves itself here in projects such as this, by living up to initial qualities it has shown abroad, its widespread use can revise building and maintenance concepts.

The Manhattan hospital is one of the VA's largest, and is expected to be one of its busiest. The T-shape plan was designed to give the maximum light and air, and greatest efficiency in getting remote points close to central core. The two major wings of the building are, respectively, 265 feet and 423 feet long. A separate building containing nurses and attendants' quarters, apartments for the administrative staff and garages, is located on the site back-to-back with the hospital and facing 23rd Street.

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This noiseless electric pump is used to circulate water for heating the house, cooling it in summer and for snow melting panels. The B & G Booster is known everywhere for its quiet, dependable and long-lived operation.

The **B & G Hydro-Flo System**

This provides a year 'round supply of hot water for kitchen, laundry and bath. Plenty for automatic clothes and dish washers.

Snow melting coils can be installed under drives and sidewalks and circulated with hot water from a B & G Hydro-Flo System.

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**Hydro-Flo Systems**


This is today's most versatile provider of year 'round comfort and convenience! All the benefits of a B & G Hydro-Flo System can be enjoyed at once or added as the owner's budget permits.

Starting with the basic Hydro-Flo Forced Hot Water Heating System, you give your homes radiant, sunny warmth... draftless rooms... warm floors. Automatic modulation keeps indoor temperature uniform—no wasteful over-heating. In addition—a limitless supply of domestic hot water, heated by the same boiler that heats the house.

Next, Hydro-Flo snow melting equipment can be added, to keep drive and sidewalks free of snow and ice. And now or later, summer cooling can be provided in a choice of several ways.

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**Bell & Gossett**

**Company**

Dept. EA-39, Morton Grove, Ill.

Canadian License: S. A. Armstrong Ltd., 1400 O'Connor Drive, West Toronto
NEW NATIONAL ANILINE RESEARCH CENTER

Ventilated by

"Buffalo" FANS

Handsome and completely functional, the Research-Engineering Center of National Aniline Division of Allied Chemical and Dye Corporation in Buffalo, N.Y., is pictured at right. Shelgren & Williams, Architects. Buffalo, N.Y.

COMPACT EXHAUSTERS INSTALLED ON ROOF SAVE FLOOR SPACE

The "Buffalo" Special Chemical Exhaust Fans shown here in the roof installation, are typical of the fine planning and selection of equipment that went into the National Aniline Research-Engineering project. Of all-weather construction, these exhausters have special sturdy cast iron housings which are resistant to moisture and corrosion. These fans have high capacity due to their high efficiency "Buffalo" rotors with backward curved blades.

National Aniline Division is typical of the many leading firms enjoying the finest in plant air-handling service—the famous "Q" Factor of performance in "Buffalo" Fans. Why not call in your nearby trained "Buffalo" Engineering Representative on your next project—for the best in air results!

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504 BROADWAY
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VENTILATING  AIR CLEANING  AIR TEMPERING  INDUCED DRAFT  EXHAUSTING  FORCED DRAFT  COOLING  HEATING  PRESSURE BLOWING

*The "Q" Factor—the built-in Quality which provides trouble-free satisfaction and long life.
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Pella Casement Windows enable you to create an unlimited number of window arrangements from stock size units. They are available in a wide variety of styles and sizes that blend with all types of architecture. Only "Pella" combines wood and steel to achieve a window with maximum strength and beauty. Combined with Rollscreens and dual glazing, there is no greater window convenience.

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Pella Wood Folding Doors are decorative, convenient, and economical. They are made of natural wood in Pine, Philippine Mahogany, Birch, and Oak. They can solve the architect's problems in partitioning of rooms, from a small door opening to a large auditorium or church basement. Pella Wood Folding Doors come completely packaged from the factory. No hardware to buy, and installation is quick and easy.

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