PENCIL POINTS
MAY 1936
WILLIAMSBURG DRAWINGS
Today... more than ever... the architect faces two responsibilities when making recommendations. Where both client and lending institution benefit mutually from a single recommendation... the architect fulfills his professional function 100%.

Exactly that happens when the architect recommends Casements by Truscon... because these enduring units of rust-resisting steel and glass combine beauty of design, ease of operation, weather-tightness, fire-safety and long-lasting value.

Truscon's 80-page catalog in "Sweet's" affords the architect adequate information about the most extensive group of modern steel building products obtainable from any single manufacturer. Make this helpful catalog YOUR guide when preparing for professional recommendations to your clients.

OTHER TRUSCON STEEL PRODUCTS FOR THE HOME

STEEL WINDOWS AND DOORS
Casements and Casement Screens
Casement and Utility Doors
Basement Windows
Coal Chutes and Garage Doors

METAL LATHS
Original Herringbone Doublemesh Lath
Insulmesh and Diamond Laths
"A" Metal Laths
Hy-Rib and Diamond Rib Laths
Corner Beads and Accessories

OTHER BUILDING PRODUCTS
Open Truss Steel Joists
Reinforcing Products
Steel Lintels
Duplex Bridging

"They never let me down..."

"VOICE OF EXPERIMENT" endorses Venus Pencils — and how

The first Law of Superiority is to get rid of Scratchitus (gritty pencils). Nothing knocks out one's Ego quicker or flatter than scribbling.

"Nothing degrades the Oversoul more than illegible writing—it causes innumerable misunderstandings—wrecks offices, devastates homes.

"I and 3,079,621 of my faithful listeners — long sufferers from Scratchitus and everything else — certainly owe a debt of gratitude to Venus Pencils.

"I use, I approve, I recommend these smooth-writing Venus Pencils. I tell my audience: 'You can't get ahead without being freed of Scratchitus (gritty pencils).'

"I tried out every pencil, finding Venus Pencils give you a Lift. They make you sing while you work—and give you Young Ideas.

"If you want to belong to the Elect, get that Inner Urge of Creativeness that comes with using Venus Pencils. It is my Word."

Naturally you assume the smoothness of Venus Pencils—that we stress as important in this advertisement to the general public.

Architects and engineers are more interested in accurate grading—a subject that emphasizes Venus superiority. Professional pencil users have come to rely on the absolute precision of these internationally famous pencils.

Year in and year out, costly tests and elaborate supervision guarantee that every pencil in each of the 17 Venus shades of black is always identical.

This uniformity is largely responsible for the fact that Venus Pencils are the largest selling quality pencils in the world.

ARE YOU "MUSEUM MINDED"
about Fire-Safe Construction?

Dwight James Baum specified PLANK for the new Women’s Dormitory at Middlebury College, Middlebury, Vt. — and achieved a clean, uniform, fire-safe job with a minimum of time and labor.

Fire-safe GYPSTEEL PLANK was used on the new Hamden High School, Hamden, Conn. R. W. Foote, Architect. The Industrial Construction Co., Contractor.

*If you have not yet learned how GYPSTEEL PLANK* cuts the cost of fire-safe floor and roof-deck construction . . . reduces expense through easy, speedy installation . . . saves tonnage in steel joists, girders and columns . . . and at the same time gives you a sturdy, uniform, fire-safe job, plus the utmost in heat and sound insulation — then perhaps you are "museum minded" on this point!

Why not acquaint yourself with the advantages of PLANK — the MODERN fire-safe structural material? PLANK handles like wood—cut, sawed, nailed or bored. PLANK is a dry job . . . no waiting to set . . . no pouring or mixing. It is a pre-cast, factory-made unit — ready for instant installation — ideal for school buildings, hospitals, hotels. Our BULLETIN tells the whole story . . . and it’s yours for the asking!

GYPSTEEL PLANK is a complete structural unit shaped like lumber. Made of extra dense, nailable gypsum. All four sides are bound with galvanized copper-bearing steel tongues and grooves which lock to form a strong, continuous I-Beam.

Center is reinforced with steel wire mesh. Vermin-proof, termite-proof. PLANK will not shrunk or warp.

*The term PLANK as applied to cementitious building products is a registered trademark of the American Cyanamid & Chemical Corporation.*
**New AMERICAN RADIATOR CONDITIONING SYSTEMS**

For automatic Oil Heating

**7 FUNCTIONS OF AMERICAN RADIATOR CONDITIONING SYSTEMS**

1. **HUMIDIFICATION** — Restores proper moisture content to indoor air.
2. **AIR CIRCULATION** — Maximizes stimulating, refreshing air motion.
3. **AIR CLEANING** — Filters dust, smoke, pollen, etc., out of air in house.
4. **VENTILATION** — Brings in and distributes fresh air without drafts.
5. **RADIATOR HEATING** — An independent heat source in each room.
6. **CONTROLLED HEAT DISTRIBUTION** — Assures warmth in every room of the house.
7. **YEAR-ROUND DOMESTIC HOT WATER**

— Mechanical summer cooling and dehumidification can be added if desired.

**ARCO OIL FURNACE No. 11**

For Small Homes

- Novel design of combustion chamber and new fin type flue passages ensure maximum efficiency.
- Year-round domestic hot water supply built-in. Extended jacket completely conceals burner and oil accessories.

**WHAT makes this new kind of air conditioning new—and better—is the fact that heating operates independently of the other functions of air conditioning. The conditioning unit ventilates the home with fresh air that has been filtered, humidified and tempered, even when the heating is off.**

Heating is accomplished by a perfected radiator system. It uses the new Arco Oil Furnace No. 11 designed for the small home... new radiators which may be entirely concealed... new accessories for controlled heat distribution. Year-round domestic hot water completes the system. American Radiator Conditioning Systems are priced for today's market, for homes in every price range. There are systems for oil, coal or gas, completely automatic or manually operated.

These conditioning systems have definite sales advantages for the houses in which they are installed. National advertising in newspapers, magazines and on the air is assuring public demand and acceptance. They will be a feature of new and remodelled homes in 1936.

**AMERICAN RADIATOR COMPANY**

40 West 40th Street, New York, N. Y.

**THESE ARE THE PRODUCTS THAT BRING AMERICAN RADIATOR CONDITIONED COMFORT WITH AUTOMATIC OIL BURNING**

---

**M A Y 1 9 3 6**
SAFE EXIT CAN BE SURE WITH

Von Duprin

Self-Releasing Fire and Panic Exit Latches

Any school building erected today can be made safe from the possibility of bodies piled at the doorways, the cause of most fatalities in school fires.

Furthermore, any old school building, of whatever type of construction, can be equipped to make safe exit sure for every person reaching the doors.

Von Duprin Self-Releasing devices do it in both cases. In addition, they are made of drop-forgings, made so well that they last beyond the life of the building, provide easy exit during all these years—at little or no cost for maintenance.

Every school and other public building should have Von Duprins at every exit door.

Complete literature and specification data is yours on request.

VONNEGUT HARDWARE CO. INDIANAPOLIS, IND. • Von Duprin Latches are listed as standard by Underwriters Laboratories, Inc.
Oil-O-Matic
and only Oil-O-Matic
meets them all

Does it atomize at low pressure, insuring quiet and complete combustion and long life?

Has it projected flame burning in mid-air away from the burner, with all mechanism outside the combustion chamber away from the heat?

Has it diffuser to insure, with any oil, a perfect blending of oil and air, producing a steady, unwavering flame?

Has it positively operated automatic safety shut-off valve?

Will it burn the economical, heavier, low-priced fuel oils?

Has it metering pump feeding unvarying quantity of oil regardless of viscosity or temperature?

Is the manufacturer financially responsible specializing exclusively in temperature control devices?

To simplify the evaluation of an oil burner we have listed above the seven features which contribute the most towards economy, long life and carefree service. Due to exclusive patented features, Williams Oil-O-Matic is the only oil burner which meets all seven requirements.

Add to this the fact that Oil-O-Matic has a record of 200,000 installations . . . that it is made by the world's largest specialists in temperature control . . . that for 17 years it has been the world's fastest selling oil burner. No wonder so many architects specify Williams Oil-O-Matic!

Oil-O-Matic is built in five different sizes. It can be quickly installed in any furnace or boiler; steam, vapor, hot water or hot air. For new construction it is provided in complete boiler-burner and furnace-burner units. For useful data for your files, mail the Architect's coupon below.

MAIL THIS COUPON TODAY

WILLIAMS OIL-O-MATIC HEATING CORPORATION
Dept. 30-5, Bloomington, Ill.
Please send me for my files, "The Architect's Handbook of Williams Oil-O-Matic Heating."

Name ___________________________ Address ___________________________
City ___________________________ State ___________________________

Here is what Strawbridge and Clothier, the linoleum contractors, say of this installation:

"Approximately 6,000 square yards of Sloane-Blabon Battleship Linoleum were selected for this installation. The floor in this school has been put to a tremendous amount of wear every day with its thousands of footsteps, and Sloane-Blabon Linoleum has met all the requirements for lasting qualities."

We shall be glad to send you a list of other recent Sloane-Blabon installations, together with linoleum samples and our new Linoleum Handbook. W. & J. Sloane, Selling Agents Division, 295 Fifth Avenue, New York.
Precision Grading
FROM 17 SEPARATE LEAD FORMULAS

By brilliantly improved methods, Eagle has developed in TURQUOISE Drawing pencils 17 grades as accurately spaced and permanently uniform as the markings on your slide rule. Precise accuracy of grading is achieved by scientifically adjusting the proportions of graphite and clay in 17 basic lead mixtures. Each formula is separately blended, checked and adjusted for the slightest variations in raw materials by thorough laboratory control.

Because of the inherent exactness of this 17-formula method, we are never required to change the grading of a lead by varying the hardness of the wax with which it is impregnated. The result is 17 different grades, each as true as a plumb line—and "Chemi-Sealed" construction keeps them true indefinitely.

Stronger Points
FROM "CHEMI-SEALED" CONSTRUCTION

By the "Chemi-Sealed" process (U.S. Pat. Nos. 1,854,905 and 1,892,508), the wood fibres at the core of the pencil are locked with a resinous binder into a rigid, non-splitting sheath for the lead. Then the waxed leads are coated with an impervious film which permits lead and wood to be glued so solidly that their combined strength gives points that will never break in normal use.

Smother, too

The graphite in TURQUOISE leads is ground so fine it actually floats in air, and the finished leads are wax-impregnated until every particle has a film of lubricant to glide on. In TURQUOISE alone, this smoothness is permanently sealed in the lead by the impervious coating of the "Chemi-Sealed" process.

"Chemi-Sealed"
REG. U. S. PAT. OFF.

TURQUOISE

EAGLE PENCIL COMPANY
703 East 13th St., New York
Manufacturers of quality pencils, including the famous MIKADO and VERITHIN, since 1856.

WRITE FOR FREE SAMPLE in any grade, giving your supplier's name and address and mentioning this publication.
LAST YEAR, when "New American" Homes—sponsored by General Electric—began to spread over the land, we were swamped with requests for service from architects. Great was the confusion. Office boys got lost in transit between one set of offices and another. Electrical and heating experts grew haggard under the strain. Confidentially, it took days, sometimes, to assemble the facts required to answer a single earnest query.

And so we decided to put our house in order! We've unified our forces—coordinated our services. Our new Home Bureau now functions with streamlined smoothness. Efficiency rules the roost. We're ready to pounce upon your requests and give them speedy and competent attention.

Our heads are crammed with new ideas for improved electrical services. Radial wiring—scientific lighting layouts . . . things the public has never before been offered in medium priced homes . . . plans for simplified heating and air conditioning that mean greater health and comfort . . . time-saving electrical kitchens and laundries that end drudgery . . . new electrical specifications which every house should have and without which no home can be truly modern.

You've probably no idea how much there is for you to draw upon in the new G-E Home Bureau, and now that we're all geared up to help you, we invite you to use this service. We do not furnish plans. But we will go over your plans and specifications from an electrical point of view. Try us out. Tell us what's on your mind and we'll give you the correct answers—with speed and dispatch.

Service we calls it—and we're trying hard to make that poor abused word respectable.

Write the General Electric Home Bureau, Room 1110, 570 Lexington Avenue, New York City.

Our various departments are preparing new standardized electrical specification sheets covering in summarized form different electrical standards. If you would like a set, when ready, send us your name and address.
HERSHEY CHOOSES LINOTILE

Linotile floors brighten Visitors' Room of Hershey Chocolate Corp., Hershey, Pa. Colors are Oyster, Travertine, and Light and Dark Walnut, in 30" x 36" tiles. Walls and pilasters are Armstrong's Pine and Walnut Linowall. Sound-absorbing ceiling is Armstrong's Corkoustic. More than 32,000 sq. ft. of Linotile; 45,000 sq. ft. of Corkoustic; and over 1,000 sq. yds. of Linowall were used in this building.

Linotile floors like this

HELP YOUR CLIENTS RENT AND SELL

YOUR clients will find it easier to rent and sell when their stores and offices have the eye-appeal that richly colored, handlaid floors of Armstrong's Linotile bring to this room in the Hershey Chocolate Corporation's new windowless office building.

Linotile is an exceptionally durable resilient tile. Inexpensive to install and easy to maintain by occasional washing and waxing, it never requires costly refinishing. Colors run through the full thickness of each tile, so that scuffing feet and scraping furniture cannot wear away their freshness and beauty.

When you remodel or build, Armstrong's Architectural Service Bureau can give you unbiased, money-saving suggestions because Armstrong offers the only complete line of resilient floors: Linotile, Accotile, Cork Tile, Rubber Tile, and Linoleum. Write now for "Individuality in Handlaid Floors." Armstrong Cork Products Co., 1306 State St., Lancaster, Pa.

ARMSTRONG'S Linoleum
and RESILIENT TILE FLOORS

LINOTILE • ACCOTILE • CORK TILE • RUBBER TILE • LINOWALL • ACOUSTICAL CEILINGS
THESE HOUSES OF STUCCO

"Went like hot cakes"

"It wasn't any job to find tenants for these houses. Every house in the row was rented before it was finished. For these houses are "right" for quick selling or renting. Small. Moderately priced. Attractive inside and out.

For an exterior finish of lasting beauty it is hard to beat the simple effectiveness of stucco made with Atlas White Portland Cement.

White portland cement stucco, used either in new construction or for modernizing, has certain definite advantages.

1. It is a durable finish—a thin sturdy wall of concrete that gives the permanence, weather resistance and fire resistance of concrete.

2. It can be applied in any texture suited to the architectural design.

3. Any color is available in stucco made with white portland cement.

4. It is economical in first cost and gives the kind of lasting service that endures in any climate.

Write for detailed information on Atlas White—plain or waterproofed. You'll be interested in examples of some of the excellent modernizing jobs in which this good stucco has figured.

UNIVERSAL ATLAS CEMENT CO.
UNITED STATES STEEL CORPORATION SUBSIDIARY
208 South La Salle Street, Chicago

A FACTORY PREPARED STUCCO IS PREFERABLE
HERE, THERE, THIS & THAT

Summer Housing Study at Columbia University

Architecture and housing studies, embracing nationwide surveys of family needs, will be featured at the thirty-seventh Summer Session of Columbia University, which opens July 7 and continues for six weeks, according to an announcement by Director John J. Coss.

Harvey Wiley Corbett, who was chairman of the architectural commission of the Century of Progress Exposition, and C. Grant LaFarge, past president of the New York Chapter of the American Institute of Architects, are among those who have been appointed to the summer faculty. They will lecture in a symposium on contemporary art, which is described as a practical survey of existing movements in architecture, sculpture, and painting, with the architecture monuments of New York City as a laboratory.

"Rebuilding America" will be the theme of Dr. Edith Elmer Wood, social economic consultant of the Housing Division of the PWA, Washington, D.C., who will direct a program in housing problems. Plans for slum clearance and low rent housing in America will be taken up in connection with European experience in these fields.

Standard Specifications Available

Standard specifications of the New York Building Congress are available and may be ordered from the office of the Congress, 301 Park Ave., New York, N. Y. The subjects are listed hereafter, the number in parenthesis after each subject being the number of pages in each case. Prices are two cents a page, subject to a discount of 10% when 25 or more copies of any one subject are ordered. Bound volumes are available to members at $2.00 a copy; to others, $2.10.

Demolition (2), Excavating (3), Waterproofing by Bituminous Membrane (2), Waterproofing by Plastic Coatings (3), Masonry and Concrete Materials (4), Masonry (4), Mass and Reinforced Concrete (8), Concrete Arches and Fireproofing (3), Structural Steel (4), Cement Finish (4), Furnishing Granite, Cut Stone, Marble or Manufactured Stone (5), Setting Granite, Cut Stone, Marble or Manufactured Stone (3), Furnishing Terra Cotta (4), Setting Terra Cotta (3), Vault Lights (2), Mail Chutes (2), Caulking (2), Metal Window Frames and Sash (4), Roofing and Sheet Metal Work (7), Carpentry (8), Architectural Iron (8), Architectural Bronze (3), Metal Furring and Lathing (3), Plastering (3), Interior Marble, Slate and Structural Glass (5), Terrazzo and Mosaic (4), Tile (Keramic) (1), Hollow Metal Work (6), Metal Covered Wood (5), Glass and Glazing (3), Painting (3), Window and Door Screens (3), Weatherstrips (3).

FRANK BARCUS SUBMITS A SKETCH OF AN ENTRANCE PORCH ON DETROIT'S FIRST SLUM CLEARANCE PROJECT. THE ALUMINUM POSTS WERE DESIGNED AS 1 1/2" x 2" BUT, AS THIS ANIMATED DETAIL SHOWS, IT WAS FOUND ADVISABLE TO DOUBLE THEIR SIZE TO ALLOW FOR THE SPECIAL USES INDICATED ABOVE.

VITAL STATISTICS SET IN ORIGINAL FORM BY MR. ROLAND A. YAEGER

Summer Art Courses at Penn State

For the tenth successive summer, the Art Department of The Pennsylvania State College Summer Session will be under the direction of Leon Loyal Winslow. Listed among the instructors will be found names already familiar to those engaged in art teaching. Besides Mr. Winslow the faculty will include Walter H. Klar, C. Valentine Kirby, Hobson Pittman, Lee Townsend, Ivan Rigby, Margie Coleman Harris, Harold E. Dickson, Andrew W. Case, and Mildred E. Cox.

The widespread need for better trained teachers and supervisors of art will be met at The Pennsylvania State College Summer Session of 1936 by a number of undergraduate and graduate courses, to be announced in a separate Art Bulletin. These courses include freehand drawing and design, the organization of teaching material, painting in oil and in water color, crafts, the history of art, sketching from the human figure, industrial art, modeling, commercial or advertising art, and supervision and research in art education.
WITH THAT BUILT-IN LAUNDRY
* OR THOSE MODERNIZATION PLANS

When you are working on the plans for a new hotel, club building, office structure — helping with the expansion program of a hospital or school — almost invariably your specifications reach into the laundry field. That is when an American Laundry Advisor can save your time and make your client’s money go farther. It has been his privilege, many times, to work with architects. He can help you with floor plans — suggest machines and procedures that will put big laundry capacity into small space. A letter will bring him to your office. And his services will not obligate you in any way.

THE AMERICAN LAUNDRY MACHINERY COMPANY
CINCINNATI, OHIO

LOW COST RESIDENCES
Can be made WEATHER-TIGHT at LOW COST

Be Sure To Calk All Door And Window Frames With

Pecora Calking Compound is a plastic material that forms a perfect lasting seal between all building materials either similar or dissimilar. Properly applied, it will not dry out, crack or chip. It makes every joint a watertight expansion joint.

No matter how little an architecturally designed residence costs, it is not unreasonable to expect it to be weather-tight. Greatly improved calking methods make it possible to quickly and economically calk around window and door frames to prevent the infiltration of air currents and moisture. This will also assure a saving in fuel by reducing heat losses and help to maintain more comfortable room temperatures.

For further details see Sweet's or write direct to us.

Pecora Paint Company, Inc.
Sedgley Ave. & Venango St. PHILADELPHIA
Established 1862 by Smith Bowen

SASH PUTTIES Also SUCTION MASTIC
MORTAR STAINS Makers of for Structural Glass

PECORA

DRAFTY WINDOW FRAMES

DRAFTY DOOR FRAMES

CALK WITH PECORA

CALK WITH PECORA

CALK WITH PECORA

MAKE THEM WEATHER-TIGHT WITH PECORA

LEAKS DIRT STREAKS
DESIGN, arrangement and materials in small home construction have come under the critical microscope. Everything must stand enlightened tests—the old as well as the new. The small house of 1936 is going to hit a new high—in practicability, in honesty of materials, in beauty, in economy.

Certain established pieces of home equipment, designed and engineered with an eye to the future, will survive the most acute appraisal. Crane fixtures for the bath, kitchen, laundry and heating plant will be among these. For high quality, convenience, beauty and economy are inherent in them.

To the man who built yesterday, and the man who is going to build tomorrow, Crane fixtures represent what he most desires in equipment for his home. We present herewith five Crane products for bath, laundry, and kitchen. They will make the small home of 1936 a better place in which to live. They can be selected with full confidence that the owner could ask no more in beauty and convenience, no less in cost.

BEAUTY • ECONOMY • DEPENDABILITY

Crane CORWITH Bath—Trim, graceful. Porcelain enamel on durable cast iron. A variety of fixtures, including built-in shower.

Crane CORONADA Lavatory—A cabinet lavatory. Generous space for towels, toiletries. Rainier fixture gives greater slab space.


Crane EVERBRITE Laundry Tub—Glistening solid porcelain (all clay), rounded corners, easy to keep clean, impervious to stains, low in cost.

Crane SUNNYSIDE Kitchen Sink. Enameled durable cast iron. Steel cabinet with drawers and storage space ingeniously arranged.

CRANE

CRANE CO., GENERAL OFFICES: 836 S. MICHIGAN AVE., CHICAGO, ILLINOIS • NEW YORK: 23 W. 44TH STREET

Branches and Sales Offices in One Hundred and Sixty Cities

VALVES, FITTINGS, FABRICATED PIPE, PUMPS, HEATING AND PLUMBING MATERIAL
New Art College in California

Announcement has been made of the establishment of the first art college in the West. The new college, to be called California College of Arts and Crafts, is located in Oakland and is the outgrowth of the California School of Arts and Crafts, founded more than a quarter of a century ago. Frederick H. Meyer, formerly director of the parent institution, has been elected first president of the new institution, according to Dr. William S. Porter, president of the board of trustees, who made the announcement.

The new institution will be a fully accredited college of arts and crafts for men and women. Its work is to be carried forward in three schools: School of Fine Arts, School of Applied Arts, and School of Art Education. In each of these schools the college will offer academic and professional training leading to degrees, as well as special professional courses designed for non-degree students.

California College of Arts and Crafts will have the distinction of being the only art institution on the Pacific Coast authorized to grant college degrees. It is empowered by the State of California to grant the following degrees: Bachelor of Fine Arts, Bachelor of Applied Arts, Bachelor of Art Education. The new institution will occupy the buildings and campus of the former school, located at Broadway and College Avenue, Oakland.

Summer Courses at Michigan

The College of Architecture, University of Michigan, will again conduct classes during the coming summer. Instruction will be offered from June 29 to August 21 in architectural drawing, all undergraduate and graduate architectural design, elements of office practice, and in outdoor drawing and painting.

Booth Fellowship Renewed

The George G. Booth Travelling Fellowship in Architecture has been renewed this year and the competition in design will be conducted during the two weeks beginning on June 22. The competition is open to all graduates of the College of Architecture, University of Michigan, who have not reached their thirtieth birthday by that date.

Princeton School of Architecture Honored

For the second time in the last four years, the School of Architecture of Princeton University was awarded the Medal given annually by the Groupe Americain, Societe des Architectes Diplomes par le Gouvernement Francais. The winner is selected on the basis of the record made by its students in the competitions in Architectural Design conducted by the Beaux-Arts Institute of Design in New York. The faculty, curriculum and program of the School must also be approved by the Societe. Princeton's Beaux-Arts record this year was very impressive. During 1934-35, a total of 851 drawings from all parts of the United States, and even Canada and Mexico, were approved by local preliminary juries and sent to New York. Sixteen of these were voted "First Medals" and thirty were awarded "Second Medals." Princeton entered only 34 drawings but received 4 First and 7 Second medals. In other words with only 4% of the total number of contestants, Princeton won 25% of the highest awards.

Two students of the Princeton School—M. C. Branch, Jr., and Joseph Ceruti—tied for second place as individual scorers in Class "A" competition, and received special medals in recognition of their work.

POSTER DESIGN BY WEIMER PURSELL OF CHICAGO, AWARDED THE $200 SECOND PRIZE IN COMPETITION SPONSORED BY THE INSTITUTE OF FOREIGN TRAVEL. THE FIRST PRIZE DESIGN WAS PUBLISHED IN PENCIL POINTS' MARCH ISSUE
In Residential Construction — There's a Place For

TERRAZZO FLOORS

In residences, as in stores, hotels, office buildings and other large construction projects, terrazzo floors have won a definite and permanent place. Their colorful beauty, flexibility of design, durability and minimum maintenance, are just as valuable to the home owner as to operators of the largest commercial and public buildings.

Constructed by reliable terrazzo contractors, these floors reproduce the pattern you design in the colors you specify. Once installed, they preserve your design in its original beauty throughout the years. Easy to clean and inexpensive to maintain, they satisfy permanently.

Your local terrazzo contractor is ready and willing to aid you in planning terrazzo floors for residences you design. A phone call or card sent to him will bring you the information you want—no obligation to you, of course. Or write to the Secretary, National Terrazzo and Mosaic Association, Inc., 524 Brook Street, Louisville, Ky., for established specifications for Terrazzo.

THE NATIONAL TERRAZZO AND MOSAIC ASSOCIATION

SECRETARY'S OFFICE: 524 BROOK ST., LOUISVILLE, KY.
New Travelling School for European Study

During the Season of 1936-37 (Sept. 26 to June 3) the Beacon Hill School of Design of Boston will inaugurate a travelling school in Europe, which will combine regular school work with European travel and research. The school will reside for several weeks in each of the art centers. The instructors travelling with the school will be Frank J. Robinson, A.I.A., A. Kingsman Paine, Jr., and Miss Barbara Bradford, instructor at the Boston Museum of Fine Arts, who will have charge of women students. Courses will be given in oil painting, water-color painting, architecture, interior decoration and design. Information may be obtained from the school at 72 Myrtle St., Boston, Mass.

Mr. Owen D. Young is Chairman of the Regents’ Committee in charge of the Inquiry. Dr. Luther Gulick, Director of the New York Bureau of Municipal Research of Columbia University, is the Director of the Inquiry.

Design for a Cosmosarium for 1939 Fair

The accompanying drawing shows a proposed Cosmosarium designed by Peter J. Bitterman, Architect, which has attracted considerable attention in New York as a possible feature of the coming World’s Fair of 1939.

The Cosmosarium differs from a planetarium in that in a planetarium one sees the skies as they appear to us from the earth while in a cosmosarium one sees the earth in space as it would appear to us if we were projected to a distance of 20,000 miles out in space. This would afford us a spectacle we have all at some time wished to experience and would do for us what a trip to the moon would offer us. The distance of 20,000 miles is about one-twelfth the way to the moon.

Between the two spheres described would be two spiralling ramps, one for ascending, one for descending, making it possible to handle great numbers of spectators without the confusion so common in all places where great numbers are entertained.

From points of vantage along these ramps spectators would observe the earth in space.

The cost of the proposed cosmosarium is estimated at about two millions of dollars, including the exhibits.

Ralph Hacker to Study New York Schools

Mr. Ralph Evans Hacker, a member of the firm of Hacker & Hacker, School Architects, with offices at Fort Lee, New Jersey, has recently been appointed Architect to the Building Study of the Regents’ Inquiry into the Character and Cost of Public Education in the State of New York.

THE WORLD IN SPACE—A PROPOSED COSMOSARIUM

SOMETHING NEW UNDER THE SUN—A COSMOSARIUM DESIGNED BY PETER J. BITTERMAN, ARCHITECT. SEE TEXT ABOVE
Matches 35-YEAR-OLD with Brand New MAPLE!

Can You Tell the Difference?

THIS HALF LAID IN 1935!

THIS HALF LAID IN 1900!

RESIDENCE OF J. CARLETON JONES, OSHKOSH, WISCONSIN

A Remarkable Tribute to Northern Hard Maple and to the Architect Who Specified It!

Widespread remodeling has spotlighted important differences in building materials!

In completely remodeling this home, two rooms were combined into one—and their floors had been laid at different levels. Auler, Jensen & Brown, the architects, found the “high” floor to be Northern Hard Maple in perfect condition, despite 35 years of use.

So, on top of the “low” floor, they laid a new Maple floor—sanded the 35-year-old Maple—stained and waxed both old and new sections, and then—found that the floor-sections matched so perfectly that even a trained eye cannot tell where the old stops and the new begins!

What a remarkable tribute to Northern Hard Maple—and what a testimonial to the judgment of the architect who specified it!

In new construction or remodeling, whether you floor with blocks or strips—with or without pattern—over screeds, wood or concrete sub-floors, Northern Hard Maple will give lasting satisfaction year after year, and constantly testify to the sound judgment back of its choice.

For Northern Hard Maple at its best, be sure to specify MFMA®. Write for MFMA “Grading Rules and complete Standard Specifications.”

MAPLE FLOORING MANUFACTURERS ASSOCIATION
1785 McCormick Building, Chicago, Ill.
See our catalog data in Sweet’s, Sec. II/I. Let our service and research department assist you with your flooring problems. Write us.

Floor with Maple

* The letters MFMA on Maple, Beech or Birch Flooring signify that the flooring is standardized and guaranteed by the Maple Flooring Manufacturers Association, whose members must attain and maintain the highest standards of manufacture and adhere to manufacturing and grading rules which economically conserve these remarkable woods. This trade-mark is for your protection. Look for it on the flooring you use. MFMA
Dante's Inferno reincarnated in the Bessemer Converter — where the dashing flames and flying sparks herald another year of unsurpassed quality for Youngstown.
Architect's sketch of the modern layout of homes and gardens followed in the Oakland Housing, Inc., project. Here, with Government aid, 150 low-cost homes have been built on two beautiful lakes near Pontiac, Michigan. A typical home is shown at the left.

**BRIGSTEEL Beautyware**

A beautiful, new residential district has been developed in West Bloomfield Township, Oakland County, Michigan. One hundred and fifty lots of an acre each have been laid out around a central commons. Upon each lot an attractive, well-constructed home with single garage has been built with money loaned by the F. E. R. A.

This development is one of the outstanding efforts of the Government to stimulate low-cost housing design and construction. In these homes nothing but the best was used and all materials were necessarily approved by the Federal Housing Administration. Brigsteel Beautyware plumbing fixtures were installed in every home. Below, Mr. Barton P. Jenks, Jr., the Government architect and manager of the project, explains why. Note his statement.

Eames & Brown, plumbing contractors of Pontiac, Michigan, who installed Beautyware in the 150 homes, say it required only one-third the time to uncrate, set, and connect a Brigsteel Beautyware tub, that it takes to perform the same operations with a cast iron tub. Those interested in more details in regard to this noteworthy project may secure a copy of the official printed report by writing Brigsteel, Detroit.

Brigsteel Beautyware formed metal plumbing fixtures were selected for the group of 150 low-cost homes of Oakland Housing, Inc., because we believe they provide a new beauty and utility at a new low cost. Their lighter weight and other exclusive features of design simplify installation problems and materially reduce attendant costs, particularly in such a large multiple-dwelling project.
At cocktail bar or tennis court...

SEALEX serves and serves well

Architect Brandon Smith, called upon to design interiors for such diverse sports as "elbow bending" and tennis-playing, found in the wide range of Sealex materials an ideal flooring for both areas.

In the Hide-Away Bar of the Roosevelt Hotel, Pittsburgh, a floor was needed that would be attractive, yet long-wearing, spill-proof and easy to keep clean. A smart Sealex Floor of Pacific Blue Linoleum, set off with a white feature strip, answered these demands—rounded out the modern decorative scheme.

The indoor tennis court at the Alleghany Country Club presented even more difficult flooring problems. Yet Brandon Smith found just what he wanted in a Sealex Cork Carpet Floor, with a special thin cork underlay. This resilient floor means greater comfort for players' feet, and no distortion of the ball's bounce.

Like all Sealex materials, these floors are quiet, as well as comfortable underfoot. Economical in first-cost and inexpensive to maintain. Wear-resisting!

Installed by authorized contractors of Bonded Floors, Sealex Linoleum carries a guarantee covering the full value of workmanship and materials. Write today for full information.

CONGOLEUM-NAIRN INC., KEARNY, N. J.

SEALEX Linoleum Floors and Wall-Covering
THE RESTORATION AT WILLIAMSBURG

PERRY, SHAW & HEPBURN, ARCHITECTS

The American Institute of Architects—first, by choosing to hold its Sixty-eighth Annual Convention near and in Williamsburg, Virginia (thus giving delegates from all parts of the country a chance to see the work that has been done during the past several years in this Colonial town); and, second, by conferring Testimonials of Honor upon those who inspired, financed, and carried out a most remarkable project (namely, Dr. William A. R. Goodwin, Rector of the Bruton Parish Church; John D. Rockefeller, Jr., the Donor; Perry, Shaw & Hepburn, the Architects; and Arthur A. Shurtleff, the Landscape Architect)—has focused the profession's attention at this time on the Restoration of Colonial Williamsburg.

What has been done there has been admirably presented in photographic form by The Architectural Record of December, 1935, and later in the American Architect, but the Editors of Pencil Points felt that their professional audience would like to peek behind the scenes, so to speak, and see at least a few of the immense number of detail drawings (upwards of ten thousand it has been estimated) that were of necessity made in carrying out the undertaking. Accordingly, after securing permission from Mr. William Graves Perry, and the promise of his cooperation, we went to Williamsburg and borrowed a number of the originals which we have reproduced on the following pages.

These drawings were selected with the idea of giving more definite information than can be had from photographs concerning a few of the many points of design that give to this fine early Virginia architecture its distinctive flavor. If they are studied in connection with the photographic records published elsewhere, they will give the discerning architect and designer a great deal of information which, properly digested and used with discretion, will help him to catch and apply in his own work, when appropriate, the spirit but not the letter of the Colonial work of Tidewater Virginia. We are assuming that the intelligence of our professional readers is sufficient safeguard against the stupid copying or even adaptation, in inappropriate places, of the details shown. The sincere thanks of all concerned are due to the Architects, Messrs. Perry, Shaw & Hepburn (and to Colonial Williamsburg, Inc.), for their generosity in making these private records available for study by their fellow practitioners.
DETAILS OF "MIDDLE ROOM" OR ENTRANCE HALL OF GOVERNOR'S PALACE AT WILLIAMSBURG AS IT HAS BEEN
RESTORED UNDER DIRECTION OF PERRY, SHAW & HEPBURN, ARCHITECTS, FOR THE WILLIAMSBURG HOLDING CO.
DETAILS OF INTERIOR OF BALLROOM IN THE GOVER­NOR'S PALACE AT WILLIAMSBURG. THE RICH BUT NOT OVER ELABORATE CORNICE AND PANELED DADO CONTRIBUTE TO THE STATELY DIGNITY OF THE WELL PROPORTIONED ROOM AS RESTORED BY PERRY, SHAW, AND HEPBURN, ARCHITECTS
NORTH GATE OF GOVERNOR'S PALACE AS RESTORED BY PERRY, SHAW & HEPBURN, ARCHITECTS
SOUTHEAST GATE HOUSE IN WALL OF GOVERNOR'S PALACE AT WILLIAMSBURG. NOTE THE BRICKWORK WITH ENGLISH BOND BELOW WATER TABLE AND FLEMISH BOND ABOVE AND THE MOLDED BRICK WALL CAP WHICH ARE TYPICAL. THE USE OF RUBBED BRICK FOR CORNERS, JAMBS, ETC., IS ALSO CHARACTERISTIC.
DETAILS OF WOOD GATE IN NORTHEAST GARDEN WALL OF GOVERNOR'S PALACE. SUCH DETAILS AS THIS, WORKED OUT BY PERRY, SHAW & HEPBURN, ARE AUTHENTICALLY IN CHARACTER WITH THE PERIOD OF THE ORIGINAL BUILDINGS AND HELP TO GIVE THE TRUE FLAVOR OF COLONIAL TIMES TO WILLIAMSBURG.
ELEVATION OF ONE OF THE ADVANCE BUILDINGS FLANKING THE FORECOURT OF THE GOVERNOR'S PALACE. NOTE AGAIN THE RUBBED BRICK AS USED FOR CORNERS, JAMBS, WATER TABLE, AND FLAT ARCHES OVER OPENINGS. THE DORMER IS TYPICAL.

PERRY, SHAW, AND HEPBURN, ARCHITECTS
A TYPICAL DORMER WINDOW OF THE GOVERNOR'S PALACE AT WILLIAMSBURG IS HERE SHOWN IN DETAIL. THE USE OF BEADED WEATHERBOARDS LAID PARALLEL WITH THE ROOF ON THE CHEEKS OF THE DORMERS AND THE BEADING OF EXPOSED CORNERS OF WOOD MEMBERS IS CHARACTERISTIC OF WILLIAMSBURG WORK.
DETAILS OF BENCH IN GARDEN OF GOVERNOR'S PALACE AT WILLIAMSBURG—PERRY, SHAW & HEPBURN, ARCHITECTS

234
Door Details of the Governor’s Palace at Williamsburg as restored under the direction of Perry, Shaw, and Hepburn carry consistency of scale from the big doors of the principal rooms right through to the minor rooms and closets of the second and third floors above.
LOOKING FROM THE SOUTHWEST AT THE CAPITOL AT WILLIAMSBURG, RESTORED UNDER THE DIRECTION OF PERRY, SHAW, AND HEPBURN. DETAILS OF THE GENERAL COURTROOM AND THE HEXAGONAL CUPOLA OF THIS BUILDING ARE REPRODUCED ON THE FOLLOWING PAGES FROM THE ARCHITECTS' ORIGINAL DRAWINGS
DETAILS OF JUDGE’S SEAT IN THE GENERAL COURT RESTORED BY PERRY, SHAW, & HEPBURN, ARCHITECTS
DETAILS OF FINE HEXAGONAL CUPOLA OF THE CAPITOL AT WILLIAMSBURG, VIRGINIA, AS RESTORED UNDER

238
THE DIRECTION OF PERRY, SHAW, AND HEPBURN, ARCHITECTS—A LOVELY ARCHITECTURAL PUNCTUATION

239
DETAILS OF GENERAL COURTROOM IN THE CAPITOL AT WILLIAMSBURG AS RESTORED UNDER THE DIRECTION OF PERRY, SHAW, AND HEPBURN. THE CIRCULAR WINDOWS AT THE END OF THE ROOM, WITH THEIR DEEP REVEALS, FORM A STRIKING FEATURE AND HELP FOCUS ATTENTION TO THE JUDGE'S DIGNIFIED SEAT.
A VIEW IN THE TAPROOM OF THE RALEIGH TAVERN AT WILLIAMSBURG, SHOWING THE BAR, AS RESTORED BY PERRY, SHAW, AND HEPBURN. OLD PINE WOODWORK AND FURNISHINGS AUTHENTically OF THE PERIOD COMBINE TO GIVE THE NEAREST POSSIBLE APPROACH TO THE ORIGINAL EARLY INN ATMOSPHERE.
DETAILS OF TYPICAL WINDOWS IN THE RALEIGH TAVERN AT WILLIAMSBURG AS RESTORED UNDER THE DIRECTION OF PERRY, SHAW, AND HEPBURN. THE TYPICAL FAT MUNTIN SECTION, NOT SHOWN ON THIS SHEET, IS SIMILAR TO THAT OF THE DORMER WINDOW ILLUSTRATED IN THE DRAWING SHOWN ON PAGE 233.
THE SO-CALLED "WREN BUILDING" OF THE COLLEGE OF WILLIAM AND MARY AS RESTORED UNDER THE DIRECTION OF PERRY, SHAW, AND HEPBURN. AN ADAPTATION OF THE ORIGINAL DESIGN BY SIR CHRISTOPHER WREN BEGUN ABOUT 1695 BUT DAMAGED BY SEVERAL FIRES. OUTSIDE WALLS LARGELY ORIGINAL.
INTERIOR ELEVATIONS OF CHAPEL IN THE WREN BUILDING OF THE COLLEGE OF WILLIAM AND MARY AS RESTORED BY PERRY, SHAW, AND HEPBURN FOR THE WILLIAMSBURG HOLDING COMPANY. THE PANELING IS EXECUTED IN EDGE GRAIN PINE AND FINISHED NATURAL, GIVING A RICH WARM COLOR TO THE ROOM.
Details of some of the Chapel furniture in the Wren building of the College of William and Mary as restored under the direction of Perry, Shaw, and Hepburn. Reproduced from existing examples in Virginia and from pieces found in contemporary English schools and colleges.
OF the four million visitors expected to attend Great Lakes Exposition at Cleveland this summer, few will be able to analyze the festive spirit stirred by the sight of the Exposition as a whole or in detail.

But visiting architects will see—back of the treatment of the grounds, the buildings, the landscaping and the details—a deliberate and adroit plan to introduce visitors unknowingly into the emotions of a big show built around the commerce, industry, and culture of the Great Lakes district.

Referring to the buildings, Anthony Thormin, architect for the Exposition, describes them as "temporary housing, designed to give the feeling of an Exposition, rather than monumental structures built for permanence." According to Thormin, any buildings erected for display purposes for a short period fall short of their possibilities if they merely protect the goods that they house, or if they follow conventional or classic design. They may be of the best school, and might achieve perfection in a setting other than the exciting atmosphere of a big fair, but Exposition structures should be for show purposes.

Thormin believes that such buildings should be treated to bring out the spirit of festivity. Their decorations should not be definitely architectural in treatment as in the case of permanent structures, but rather devices, always in good taste, to speed up the spirit of the occasion of which they are a part.

So, architects visiting Great Lakes this summer will see in the broad perspective of the Exposition a festive motif, recurring throughout, binding the whole together like the central theme of a symphony whose individual movements lend freshness to the basic theme. But if the Great Lakes may be compared to a symphony, it is a simple one, nothing grandiose—an ultra-modern and, in this case, truly American pattern.

The fact that the Exposition entrance is revealed almost as one steps from the Terminal Building to the Public Square in the heart of Cleveland indicates an interesting architectural problem in shifting the visitors
in a breath from the center of the sixth city into the atmosphere of an Exposition. A most interesting side light is the fact that the main entrance is located upon Cleveland’s Mall, a piece of city planning begun years ago. Original thought as to the form of the big fair ran parallel to the knowledge that the Exposition would be designed into a $25,000,000 setting already built for it. The Mall inducts the visitors into the grounds, the Public Auditorium close by on the right, an actual part of the Exposition grouping. They secured the services of C. E. Conley, City Planning Engineer who has lived with the Mall project for many years. Mr. Conley has, from the first, served as liaison representative between City Plan and Exposition plans. The result is a harmonious treatment that reveals the best in both.

Entering Great Lakes Exposition area through entrances designed by Anthony S. Ceresi to usher visitors instantly from the commercial atmosphere of Cleveland’s downtown into this summer’s playground for the Lakes section, attention centers upon the landscaped Court of the Great Lakes, flanked by
Cleveland’s City Hall and the County Courthouse. Within the Court, several model homes, each of different materials, will prove an unusually popular feature at this time when home building is straining at the dam, and about to burst through. The shell in which Cleveland’s famous symphony orchestra will play daily throughout the 100 days of the Exposition is located in the Court area. It is interesting to note that close proximity to the Public Auditorium will make it possible to hear concerts rain or shine, since, in case of threatening weather, the orchestra will move only a few hundred feet into one of the several halls of the Auditorium. Incidentally, this building will house the American Legion, National Republican, and other conventions through the summer. Cleveland plans a convention a day for the Exposition period.

At the northern edge of the Court area, visitors will see the panoramic view of the Exposition: on the extreme left, Cleveland’s municipal stadium, largest in the country; on the far right, “Streets of the World,” the international village that will be a main part of the amusement section; dominating the center of the picture, the Automotive Building and Hall of Progress, the latter devoted largely to public utility type displays. And, as a background, Lake Erie. Showing again how the Exposition is designed into a prepared setting, docks of passenger steamship lines that thread the Great Lakes are almost at the center of the grounds that extend about a mile along the lake front. The lakes themselves, furnishing a main Exposition theme of shipping in which the lakes lead the country, ripple at the Exposition’s door.

Unusual use of enormous louvres, opening more than half of the Automotive Building’s roof to Lake Erie’s breezes, will hold the attention of architectural and engineering minded visitors. The building was designed by Antonio DiNardo. Scissors trusses with 60-foot spans, chord members supporting the louvres, are used throughout the building. Louvres such as DiNardo designed will, of course, give unusual indirect lighting as well as ventilation. They are screened against insects and dust. Displays within the building will conform to the general building theme.

Hays & Simpson designed the Hall of Progress. C. Merrill Barber, consulting engineer, solved the problem of engineering a flat roof building, 30-foot column space, to house exhibits for only 100 days, by using rigid frames of wood as his material, gaining low original cost as well as high salvage value.
Plywood, 5-ply—\( \frac{3}{8}'' \), covers light truss work of 2 x 6 and 2 x 10 joists. The plywood, held by double headed nails, becomes an integral part of the stress members. The 60-foot rigid frames are made of two 30-foot spans. Exterior leg members of the frame are two feet at the base, four feet at the top to absorb lateral strains.

This being the first time such construction has been used under conditions found beside the lake, by arrangement with Prof. F. L. Plummer, Case School of Applied Science,
GREAT LAKES EXPOSITION

two seniors took testing of building models as their thesis. Under conditions that duplicated those found within the Exposition, ply-covered models withstood vertical and lateral strains proportionally four times as great as stresses which the building itself will bear.

R. G. Frisbee, Director of Works, has "handled more expositions than any man in the country" according to Lincoln G. Dickey, General Manager and veteran director of public events throughout the country. Anthony Thormin, Architect, a Carnegie and
Massachusetts Tech man, has been associated with Buehl Foundation, builders of Chatham Village, Pittsburgh. Carl Guenther, a product of Western Reserve University and Ecole des Beaux Arts, holder of the 24th Paris Prize in architecture, is designer. A. H. Heidenreich, Case, 1905, who electrified the Boston-Revere railroad and has handled many hydro-electric plants throughout the country, is Engineer of the electrical department. Cleveland’s commanding position in the field of lighting will be accentuated even more by electrical displays now under way in cooperation with laboratories of well-known manufacturers.

Hall of Progress was designed by Walker & Weeks, the Horticultural Building by Warner & Mitchell. Donald Gray, landscape architect, will handle the Horticultural Gardens beside the lake. Landscaping throughout will be in keeping with the modern spirit of the buildings. "Parade of the Years," produced by Edward Hungerford, who gave "Wings of the Century" to Chicago’s Exposition, will be shown daily. The sets for the spectacle are designed by Richard Rychtarik. Rychtarik also designed "Streets of the World," the international village covering many acres, that will bring authentic old-world atmosphere from countries that have contributed to Great Lakes population.

The main purpose of the Exposition is to present to residents of the Lakes district a dramatic picture of their own commerce and industry. While the section produces much of the finished, over-the-counter goods of the country, it also makes most of the machinery that produces those goods as well as a host of the basic materials that enter into finished products. It is natural, of course, that "The Romance of Iron and Steel" should play a main part in a Great Lakes presentation. This exhibit will be in charge of Dr. A. A. Bates of Case School, and will be housed in the Lakeside exhibition hall that extends below the Mall. Mine shafts, prehistoric smelting methods, mediaeval blast furnaces and forges will be contrasted with the most modern methods of the metallurgist and engineer.

Visitors who do not know architecture will feel the result of effect predetermined by Great Lakes architects. Architects will see the plan back of the results.
Design by Alton L. Craft for a four-room house with unfinished second floor that can later be made into additional bedrooms and bath. When the change is made, the bedroom next the kitchen will become a dining room. The house is for summer use and dining is done outdoors.
DESIGN BY ALTON L. CRAFT AND H. VANDERVOORT WALSH FOR A SMALL HOUSE OF SIX ROOMS ARRANGED TO GIVE PRIVACY FOR AGED RELATIVES IN THE NORTHERN BEDROOMS WHICH MAY EVENTUALLY BE CONVERTED INTO A DINING ROOM AND PANTRY, AND FOR THE FAMILY OF TWO ADULTS AND A CHILD ON THE SOUTH
It's Yours to Build

Collier's House, designed for modern living by Architect Edward D. Stone and described in the March 28th issue, scored a direct hit. Complete working plans and specifications for which you would have to pay hundreds of dollars are yours merely for the cost of reproducing and mailing them—$3.

Address: COLLIER'S HOUSE
Collier's, The National Weekly
250 Park Avenue, New York City
PLEASE DO NOT SEND CURRENCY

WHY DO THEY DO IT?

WHAT do they get out of it? And is it worth it?

The national weekly: Reader interest and a few more advertisers of Building Materials and Equipment. The resentment of the architectural profession.

Mr. Edward D. Stone: One commission and some publicity and the setting up of an active force making it more difficult to obtain future commissions.

The buyer of the plans: The false idea that you can get something for nothing; that three dollars buys the ability of an architect of Mr. Stone's caliber, or even that of a less talented man. A lowered conception of the position of the architect and what he does for his clients. The start of real trouble unless an architect is employed to conduct the supervision of the actual building and in the making of the contract with the builder.

The Architectural Profession: The emphasis on the need to educate the public and the editors of lay magazines to an understanding that the architect does more than make plans. To them it may be worth it if this education is carried on at once and continually in every town and city by every architect. This education should be directed to demonstrate that a quality house can only be obtained if there is quality design, quality materials, and quality construction. The architect is necessary for the success of all three.

RALPH WALKER, F.A.I.A.
SOME WORDS BY WAY OF CLARIFICATION

BY KENNETH REID

In another part of this issue, we have printed two letters that came to us in response to the letter of Oliver Whitwell Wilson, published last month, in which he suggested enjoining the Federation of Architects, Engineers, Chemists, and Technicians against the use of the word "Architect" in the title of their organization.

Mr. Wilson's indignation had been aroused by a minor and merely vocal disturbance (of which he was an eye and ear witness) in the New York City Hall, participated in by some members of the F. A. E. C. & T. It was increased by newspaper accounts of a more serious conflict the following day (at which he was not present) in which police broke up an alleged attempt on the part of several organizations, including the F. A. E. C. & T., to hold a parade from one meeting place to another in defiance of the Mayor's orders. As it turned out, the police were at fault in this instance and the responsibility for the violence that occurred was afterwards placed on their shoulders by a Citizens' Jury which conducted an investigation of the affair.

Be that as it may, Mr. Wilson's sensibilities were outraged by the fact that architects, or members of an organization partly composed of architects, should take part, first, in the oral expression of defiance to the authorities and, second, in an outdoor battle with police that was reported at length in the public prints. It seemed to him that architects, presumably interested in maintaining a position of dignity in the eyes of the general public, should not have behaved thus, no matter what their provocation or how oppressed they were by economic forces. He felt that the name of "Architect" had been dragged in the mire and that something should be done about it—so he wrote his letter.

Before publishing it we pointed out to him that his logic was somewhat less than perfect when he reasoned that since it is a punishable offense in the State of New York to misuse the title of "Architect" in certain ways definitely stated by law, it is or should be equally punishable for an architect or group of architects to defy the rulings of duly constituted public officers in matters having nothing to do with architectural practice. In spite of this, he persisted in his point of view, and, having in mind the famous utterance of Voltaire, "I wholly disapprove of what you say and will defend to the death your right to say it," we printed the letter as written. We felt that our readers would not fail to detect the fallacy, but that some of the other thoughts contained in the letter might do some good by calling the attention of the Federation's membership to the necessity for circumspect behavior in public at all times if even the appearance of evil is to be avoided.

To a body engaged so valiantly in struggling for the economic improvement of the conditions under which architectural employees are working, such necessity should be evident. Public opinion—which may be either a powerful ally or a mighty opponent of groups engaged in such a battle—is not altogether based, in this imperfect world, on the merits of a given controversy, but is often thrown against those who conduct themselves in ways that seem unbecoming.

We have discussed the matter at some length because we have been asked by the Federation to clarify our editorial position with respect to it. We are in complete accord with the general aims of any group that seeks to improve the economic standing of either architects or draftsmen (not at each other's expense), though we retain the right to differ as to the methods employed in the attempt. We believe in adequate payment for both in return for adequate services rendered, and will support any effort that promises to accomplish this end. We believe in the unity of the profession in the sense that both architects and draftsmen are members thereof and that their real economic interests are the same. We believe that a satisfactory condition will be reached only when both elements realize this and join forces to fight their common battle against the ills that beset them from without. And finally, we believe that the conduct of this battle need lack neither strength nor dignity.
Guptill's Corner

Wash Competition

Yes Sir and Yes Marm, here it is! Here's your chance to try your skill and luck at another of the stupendous, marvelous, unexcelled, and unexaggerated GUPTILL'S CORNER SKETCH COMPETITIONS. Grab a brush, slop a bit of paint on some paper, send it in, and win one of the magnificent, prodigious, absolutely swell prizes! Have some fun! Learn something! Gain glory! You don't have to gamble much either in time or money, so get busy. This may be the last of these sketch competitions for a while, by the way, as I'm having a lot of requests for little competitions on the design of ornamental detail, etc. So don't wait for the next one but get under way now. Time's a-wastin'.

GUPTILL'S CORNER SKETCH COMPETITION No. 3: SKETCHING FROM THE PHOTOGRAPH IN WASH

PROBLEM. The problem is to make an effective sketch (not rendering) in wash alone of the photographic subject published on page 273 of this issue of PENCIL POINTS. By "wash" is meant black watercolor such as lamp black or ivory black, diluted to suit. Ink, applied with the brush in diluted form, is acceptable. Colors, including brown, are forbidden, as is undiluted black. The contestant is not expected to make a slavish copy, exact in every detail, but rather to interpret the building and its surroundings as though he were actually before them, making an outdoor sketch. All the main architectural elements of the subject must be shown, and at approximately the same proportions as in the photograph: it is not enough to select a limited area, such as a doorway, and draw that. Inconsequential details can, however, be omitted or suppressed. The complete surroundings need not be drawn, and the portions included can be somewhat recomposed: trees can be made larger or smaller, or changed in position or detail; vines or bushes can be added or omitted, etc.
These wash sketches merely serve to suggest some of the possibilities of this flexible medium.
For polished metal surfaces of any kind the pencil should bite into the paper, leaving a tone of smooth, crisp quality. Highlights of untouched white paper, sharp edges, reflections, all call for a direct, vigorous pencil attack. Eldorado Pencils B, 2B, 3B and 4B were used in this drawing on cameo paper. Pencil Sales Department 167-J5, JOSEPH DIXON CRUCIBLE COMPANY, Jersey City, N. J.
SERVICE DEPARTMENTS

THE MART. In this department we will print, free of charge, notices from readers (dealers excepted) having for sale or desiring to purchase books, drawing instruments, and other property pertaining directly to the profession or business in which most of us are engaged. Such notices will be inserted in one issue only, but there is no limit to the number of different notices pertaining to different things which any subscriber may insert.

PERSONAL NOTICES. Announcements concerning the opening of new offices for the practice of architecture, changes in architectural firms, changes of address and items of personal interest pertaining directly to the profession or business in which most of us are engaged. Such notices will be inserted in one issue only, but there is no limit to the number of different notices pertaining to different things which any subscriber may insert.

FREE EMPLOYMENT SERVICE. In this department we shall submit for publication in these Service Departments notices from architects or others requiring designers, draftsmen, specification writers, or superintendents, as well as from those seeking similar positions.

SPECIAL NOTICE TO ARCHITECTS LOCATED OUTSIDE OF THE UNITED STATES: Should you be interested in any building material or equipment manufactured in America, we will gladly procure and send, without charge, any information you may desire.

NOTICES submitted for publication in these Service Departments must reach us before the fifth of each month if they are to be inserted in the next issue. Address all communications to 330 West 42nd Street, New York, N. Y.

MANUFACTURERS’ DATA WANTED

WILLIAM A. MONAHAN, Architect, 97a Newbury Street, Boston, Mass.

ARTHUR CLEMENT AALHOLM, Architect, 8 Mine Street, Flemington, N. J.

CHRISTIAN W. BRANDT, Architect, 401 Madison Theater Building, Detroit, Mich.

MALCOLM D. HILDRETH, Architect, 205 S. Mammoth Road, Manchester, N. H. (Data on schools and small house construction.)

ROLLIN L. ROSSER, Architect, Arcanum, Ohio.

ELMER B. TORRANCE, Architect, 675 Elm Street, Kearny, N. J. (Data for A.I.A. File.)

HENRY JONDAHL, Architect, 423 Queen Street West, Toronto, Ont., Canada.

CHARLES E. POWELL, Landscape Architect, 8 Dana Street, Cambridge, Mass.

JAMES E. HYNBER, Designer, 3209 North Fifth Street, Clarendon, Va. (Data on residential material and equipment.)

JOHN H. ROLFS, Carpenter and Builder, 222 East 12th Street, Cincinnati, Ohio. (Data on small residences and building construction.)

KENT BARKER, Student, 270 Roncesvalles Avenue, Toronto 3, Ont., Canada.

J. F. C. SMITH, Student, 78 Marion Street, Toronto, Ont., Canada.

THE MART

Maurice Germaine, 1600 10th Avenue West, Vancouver, B. C., would like to purchase the following: Ware's Modern Perspective, revised edition, including plates; Longfellow's Applied Perspective.

Arch Winter, 1153 16th Street, N. W., Washington, D. C., would like to obtain a copy of October, 1935, Architectural Forum.

Miss Helen Russell, 27 Windsor Street, Worcester, Mass., has the following back issues of Pencil Points for sale: January, 1924; August through December, 1923, in fair condition; January and February, 1926; complete and bound in two volumes each year, in excellent condition, 1927 and 1928; all except April, 1929; complete, unbound, years 1930, 1931, 1932, 1933; all except October and November, 1934; all except October, 1935. Will sell lot or in part, but would prefer not to break complete years.

Paul V. Stryker, 731 Considine Avenue, Cincinnati, Ohio, would like to obtain the following copies of Pencil Points: July, 1927; July, September, November and December, 1928; January, March, May and July, 1929; January, February, May, 1930.

W. A. Pittmon, 104 Adelphi Street, Brooklyn, N. Y., would like to obtain a copy of Gwilt's Encyclopedia of Architecture.

Thomas Stapleton, 607 Fifth Avenue, New York, would like to obtain the following copies of Pencil Points: April, May, June, August, October and December, 1932; April, 1933; October, 1935. Also Vol. 2, Nos. 1, 3, 4 and 6, of the White Pine Series.

A. Resnikoff, 2186 Cruger Avenue, New York, N. Y., has for sale February, March, and April, 1932, issues of Pencil Points, in excellent condition.

Harvey P. Baxter, 1108 16th Street N. W., Washington, D. C., would like to obtain the following copies of Pencil Points: April, May, June, August, October and December, 1932; April, 1933.

PERSONALS

FOR RENT: Portion of architect's office at 301 Fifth Avenue, New York, with or without private room, drafting room space, telephone, stenographic and general services, or as may be desired. Studio light in drafting room. Arthur C. Jackson, Telephone Vanderbilt 3-2742.

WILLIAM A. MONAHAN, Architect, has opened an office for the practice of architecture at 97a Newbury Street, Boston, Mass.

COGGINS & HEDLANDER, Architects, have moved their offices to the Chateau Lafayette, Boston Post Road, Greenwich, Conn.

JOHN R. ROCHART, Architect, former associate of the late Cass Gilbert, has established offices at 22 East 40th Street, New York.

I. M. LEWIS, INC., Architects, have moved to 1704-5 Cadillac Square Building, Cadillac Square, Detroit, Mich.

ROLLIN L. ROSSER, Architect, has opened an office in Arcanum, Ohio.

ARTHUR CLEMENT AALHOLM, Architect, has reopened his office at 8 Mine Street, Flemington, N. J., for the practice of architecture.

CHRISTIAN W. BRANDT, Architect, has opened an office at 401 Madison Theater Building, Detroit, Michigan.
A perfect Team-Mate for any Automatic Firing Equipment

The oil, or Gas Burner or Coal Stoker you install is judged by the efficiency of the heating system as a whole. Team a good burner or stoker with the right boiler and you insure best results.

Any boiler won’t do. It must be one specifically designed, proportioned and built for the purpose. The Kewanee Round “R” meets all requirements. For these residence Boilers are designed, from start to finish, to get the most from automatic firing equipment... having all those features which insure dependable and economical heat.

Before selecting any boiler get the facts about the Kewanee Round “R” (in Regal, Square or Round Jackets) . . . performance records . . . quick delivery from warehouse stocks . . . low cost . . . and easy official financing plan.

CHECK THESE KEWANEE FEATURES

They insure greatest efficiency with automatic firing equipment.

- HEAVY STEEL PLATE, strong enough to stand the strain of sudden temperature changes caused by the intermittent operation of automatic firing.
- HEAVIER CASTINGS, add extra years of life.
- KEWANEE SPINNER BLADES force the hot gases to “scrub” the tube walls with an unobstructed streamline swirl, transferring the heat to the water quickly and with more certainty.
- LARGE STEAM SPACE insures sufficient reserve of dry steam.
- FIREFLOWS EXTRA BIG AND HIGH have ample space for complete combustion.
- TWO-PASS TUBES provide DOUBLE TRAVEL for the gases, holding them in the boiler longer, to use all the available heat.
- STURDY INSULATED DOORS keep heat inside instead of radiating it out and wasting fuel.
- KEWANEE COPPER HOT WATER COIL (accessibly fitted inside the boiler) a part of the boiler, not an extra, produces a plentiful domestic supply.
PUBLICATIONS ON MATERIALS AND EQUIPMENT

of Interest to Architects, Draftsmen and Specification Writers

Publications mentioned here will be sent free unless otherwise noted, upon request, to readers of PENCIL POINTS by the firm issuing them. When writing for these items please mention PENCIL POINTS.

G-E RADIAL WIRING SYSTEM.—A.I.A. File No. 31-C-61. Publication No. 51-611. A new reference manual for architects and engineers containing complete information on the basic design of the G-E radial wiring system, as well as design procedure and specifications. In addition, it includes a section illustrating the materials and fixtures used, wiring diagrams and a convenient check list. 32 pp. 8 1/2 x 11. General Electric Co., Appliance and Merchandise Dept., Bridgeport, Conn.

1936 NEW AMERICAN DEMONSTRATION HOME-BUILDING PROGRAM.—Publication NAH-102. Newly published prospectus outlines the scope of the new program, discusses the basic requirements of the "New American" concept of living, and explains the extent to which General Electric will cooperate with those concerned in the building trades and home-furnishings field. 12 pp. General Electric Co., Schenectady, N. Y.

NEW BETHLEHEM-DOE OIL BURNERS.—Bulletin No. CF-2, just issued, describes in detail a line of conversion oil burners, also a new compact, flange type model ready to be bolted directly into the modern, completely enclosed oil burning furnaces. 16 pp. Bethlehem Foundry & Machine Co., Bethlehem, Pa.

BRUNS METAL-LITE AWNINGS.—A.I.A. File No. 28-f. Folder describing and illustrating a new permanent, all-metal awning suitable for apartments, office buildings, hotels, homes, public buildings, etc. Detail drawings. 4 pp. 8 1/2 x 11. Bruns Metal-Lite Awnings, Inc., 52 Ralph Ave., Brooklyn, N. Y.

ROCKWALL GYPSUM AND RELATED BUILDING PRODUCTS.—New catalog covering a complete line of gypsum and related building products, including gypsum lath, metal lath, plasters, limes, etc. 12 pp. 8 1/2 x 11. Atlantic Gypsum Products Co., 205 E. 42nd St., New York, N. Y.

LUMAR LUMINOUS MARBLE.—Folder giving a detailed description of Lumar, a scientifically selected and specially processed marble serviceable for innumerable uses in architecture and decoration. 4 pp. 8 1/2 x 11. Vermont Marble Co., Proctor, Vt.

THE LUCKE LEAK PROOF TUB HANGER.—A.I.A. File No. 29-m. Catalog D describing and illustrating a type of tub hanger, designed to act as a water seal between walls and edges of built-in tubs or shower receptacles, also between tile floor and tub. Specifications, dimension data. 16 pp. 8 1/2 x 11. William B. Lucke, Wilmette, Ill.


VENTO STEEL CASEMENTS.—Catalog CW-36 covers a complete line of casements for residences, apartments, etc., including Vento Insulpanes, designed for air-conditioned houses or for use as storm panels in severe climates. Specifications, standard types and sizes, detail drawings, etc. Included is data on utility and basement windows and coal chutes. 36 pp. 8 1/2 x 11. Vento Steel Sash Co., Muskegon, Mich.

LEWIS AIR CONDITIONING.—New catalog. Form 20A describes the H-1 and M-3 series air conditioning units as well as the H-2 and G-C series recently introduced. Capacity tables, mechanical specifications, etc. 8 pp. 8 1/2 x 11. Lewis Air Conditioners, Inc., 1600 Northeast Broadway, Minneapolis, Minn.


SOLUS OIL AND GASOLINE SEPARATOR.—Catalog No. 10 describing a type of separator which prevents oil and gasoline from entering drains and sewers in garages, filling stations, airports, paint factories, engine rooms, etc. Installation and dimension details. 14 pp. The Central Foundry Co., 420 Lexington Ave., New York, N. Y.

GUTHFAN CONDITIONAIRE.—Catalog No. 7 covering a complete line of Guthfan conditionaire equipment including several new designs suitable for use in homes, offices and stores. 16 pp. 8 1/2 x 11. The Edwin F. Guth Co., St. Louis, Mo.

WESTERN ELECTRIC PROGRAM SOUND SYSTEM.—Catalog giving a detailed description of a new program sound system for use in sizeable buildings such as schools, hotels, department stores and hospitals. 12 pp. 8 1/2 x 11. Western Electric Co., 195 Broadway, New York, N. Y.


PENMETAL PRODUCTS.—Catalog giving detailed information on a line of metal lath and accessories. 12 pp. 8 1/2 x 11. Penn Metal Co., 205 E. 42nd Street, New York, N. Y.

ATTRACTION FIREPLACES.—A.I.A. File No. 14-e-2. Handsome brochure on the subject of attractive fireplaces and how to build them. Included are descriptive data covering fireplace specialties, detail drawings, specifications and a variety of fireplace designs. 16 pp. 8 1/2 x 11. The H. W. Covent Co., 229 E. 37th St., New York, N. Y.

NEW OZALID TYPE 600 DRY-DEVELOPING MACHINE.—Descriptive folder announcing the introduction of the type 600 developing machine, mounted on a Wickes new type blue printing machine, making a combined printing and developing unit for the production of positive-type white prints. 4 pp. 8 1/2 x 11. Ozalid Corporation, 354 Fourth Ave., New York, N. Y.

THIS THING CALLED AUTOMATIC HEATING AND AIR CONDITIONING.—Attractive new brochure designed to show the important part which automatic controls play in the operation of heating and air conditioning systems, and the absolute necessity for planning this control as an integral and important part of this operation. 48 pp. Minneapolis-Honeywell Regulator Co., Minneapolis, Minn.
ACOUSTI-CELOTEX says "Hush" to Noise

Sound Condition with ACOUSTI-CELOTEX

For quieting noise, controlling sound, clarifying speech, and in every phase of sound conditioning, Acousti-Celotex has demonstrated its outstanding capabilities for over 10 years.

In hospitals, schools, business offices, and workshops, Acousti-Celotex protects against din and distracting turmoil from without and quiet noise within. The problem of retarding the spread of noise from building machinery, elevators, kitchens, has also been most satisfactorily solved by Acousti-Celotex.

In radio studios, auditoriums, churches, and places of public entertainment and education, its use with or without sound amplification assures better hearing by preventing echoing reverberations.

In all applications for sound conditioning, Acousti-Celotex is easily—economically installed. It may be applied to any type of ceiling surface either in new or existing buildings. It is permanent and may be painted or decorated repeatedly without destroying its acoustical properties. Architects are invited to consult the nearest Acousti-Celotex distributor who will cooperate in helping solve any sound conditioning problem. Or write

THE CELOTEX CORPORATION, 919 N. Michigan Ave., Chicago, Ill.

Paintable Acousti-Celotex

A trade mark registered

Be sure it's Celotex

Trade mark registered

U.S. Patent Office
FREE EMPLOYMENT SERVICE FOR READERS OF PENCIL POINTS

 Replies to box numbers should be addressed care of Pencil Points, 350 West 42nd Street, New York

POSITION WANTED: A general all-round practical architectural designer and draftsman, with a wide experience and knowledge of all types of building construction, desires position with builder, contractor, engineer or architect. Modest remuneration. Box No. 500.


POSITION WANTED: Draftsman or superintendent, age 43, married, twenty years’ experience. Will go anywhere in New York State. Box No. 502.

WANTED: Architectural draftsman, capable of preparing sketches and perspectives and rendering, also working drawings and details. Must be snappy, neat and accurate. Box No. 503.

POSITION WANTED: Junior draftsman, willing worker, 25 years of age, eager to learn, would like position in architect’s office. Modest salary. Box No. 504.

POSITION WANTED: Registered Architect, designer and all-round practical man, 25 years’ experience. Can handle any type of building from sketch to completion, in the office and in the field. I have made a study and specialized in housing the last two and a half years and am thoroughly familiar with this type of work. Box No. 505.

POSITION WANTED: Associate engineer, graduate of Newark Technical School in architectural engineering, desires position as apprentice in Architect’s office or large company. Capable of making renderings in wash or color. Willing to travel. Age 23. Five years’ experience in landscaping field. Salary secondary. Box No. 506.


POSITION WANTED: Architect, with 25 years of good all-round architectural and construction experience, wishes position as draftsman or construction superintendent. Can manage drafting room and write specifications. References from former employers can be furnished. Box No. 508.

POSITION WANTED: Architectural draftsman, age 34, college graduate. At present studying I.C.S. course in civil engineering. Two years’ experience in material testing laboratory and four years’ experience in structural steel erection, also several years in architectural offices and a fair knowledge of concrete construction. A steady position at fair wages is desired. Married. A steady worker. Will go any place. R. H. Killian, 363 Bartlett Street, San Francisco, Calif.

POSITION WANTED: Draftsman (junior) age 28 knowledge of architecture. Pratt Institute student, worked with architects for several years. Would appreciate interview at any time. Salary basis. References of work. Hard worker. Box No. 509.

POSITION WANTED: Architect capable of handling work of any magnitude wants employment or partnership with established architect. Box No. 510.

POSITION WANTED: Young man, 21 years of age, completed architectural drafting course at Drake’s School, also High School graduate. Jerome Licker, 101 E. Mr. Eden Ave., New York, N. Y.

POSITION WANTED: Young man, 19 years of age, desires position with architect in New York City. One year drafting at High School. Now in second year as student of Architecture at College of New York in evening. Box No. 511.

POSITION WANTED: Young man, 22, seeks position with architect, contractor or builder. Graduate of Mechanics Institute in architectural drafting and design. Am inexperienced but am eager to work and learn business. Salary at employer’s discretion. Locality immaterial. Box No. 512.

ARCHITECTURAL DRAFTSMAN WANTED: Opening for draftsman capable of making complete working drawings and details from sketches and information. Must be accurate, sober and industrious and dependable. Location North Carolina. Box No. 513.

POSITION WANTED: Male, white, neat, experienced, dependable, competent, college trained, 20 years at drafting, detailing, designing, specifications, construction superintendent and architect’s representative on a wide diversified type of buildings. Come well recommended. Go anywhere. Charles Palmer, Room 524—4614 Prospect Avenue, Cleveland, Ohio.


PARTNER WANTED: Leading manufacturer of high quality cast stone is desirous of obtaining a partner in his business. Plant located in New York State, covers nearly two acres of ground with up-to-date machinery and every facility for turning out cast stone for large building projects. Plant and business has been established for 25 years during which time it has enjoyed reputation for producing one of the best grades of cast stone on market. Volume of business done in past, from 1925 to 1929 for example, produced a net profit of $225,000. Future of cast stone business very bright and offers real money-making opportunities to a live wire. Desire man who can estimate, design and take charge of all production details. Position offers unusual profit-making opportunities to right party interested in making investment and obtaining permanent connection with a reliable firm. Address reply to Box 515.

SALES ENGINEERS WANTED: Leading manufacturer of nationally sold automatic coal burners and control equipment for residential, commercial and industrial use, has openings for several sales engineers in its own and its distributors’ organization. University or architectural or engineering training, heating or power plant experience, and acquaintance with architects, engineers and the building industry would be helpful. Box No. 516.

(Continued on page 41, Advertising Section)
Coal now the finest and most economical form of automatic heating

Iron Fireman brings you this latest coal firing convenience

**DOES AWAY WITH COAL HANDLING**

In a year when home building is showing a definite increase; when architects, builders and their clients are thinking definitely of automatic home heating, Iron Fireman is happy indeed to present its new *Coal Flow* model.

With the development of this advanced automatic burner, coal goes completely modern and automatic. As the name implies, coal *flows* from bin to fire. From the time that the coal is put into the bin until it is transformed into useful heat in the furnace or boiler, it is an invisible, self-serving fuel.

Like all Iron Fireman burners, the *Coal Flow* uses inexpensive sizes of coal. The burner achieves combustion efficiencies fully as high as liquid or vapor fuels. This high heating efficiency combined with low fuel cost enables an Iron Fireman burner to cut fuel bills from 15% to 50% over hand-firing, and from 25% to 75% over other types of automatic heating.

*Coal Flow* models are available to fit practically every type of heating plant and basement arrangement. The distance the coal is conveyed and the location and size of the bin can be varied greatly. This wide flexibility makes possible installations that are specially designed to fit the most diverse individual requirements.

Iron Fireman prices are the lowest in history. A *Coal Flow* model may be purchased for as little as $10.72 a month, with a small down payment; standard hopper models for as little as $8.97 a month.

We suggest that you write for complete descriptive information, or get in touch with your local Iron Fireman dealer. Iron Fireman Manufacturing Company, Portland, Oregon; Cleveland, Ohio; Toronto, Canada. Dealers everywhere.

**SEND FOR FREE LITERATURE**

Iron Fireman Manufacturing Co.
3015 W. 106th Street, Cleveland, Ohio.

Gentlemen: Please send full particulars about the Iron Fireman *Coal Flow* for:

[ ] Residence [ ] Large Heating Plant [ ] Power Boiler

Name: ____________________________

Address: ____________________________

NOW ON DEMONSTRATION AT IRON FIREMAN DEALERS
A Letter from the Federation of A.E.C.&T.

"PENCIL POINTS has printed articles expressing different shades of opinions regarding economic organizations of architectural employees. There are honest differences of opinion and it is well to see this question discussed. It is to be regretted, however, that PENCIL POINTS has printed the letter of Mr. Oliver Whitwell Wilson. This letter makes criminal charges against the Federation of Architects, Engineers, Chemists and Technicians, but does not substantiate these charges with a single fact.

"To speak of the Federation as an organization 'deliberately flouting law and order' when one has no proof is libel and slander.

"Mr. Wilson, in a confusing manner, has mingled two issues; one, the use of the word 'architect,' and the other, what purports to be a report of the February 15th meeting in New York.

"As to the first, our organization includes architectural employees. We have several hundred Registered Architects and thousands of others doing architectural work in various categories of the profession. We did not try to pass off our organization as one of Registered Architects. We do not use this term, but rather use the general term of Architect to include the Registered Architect as well as the other architectural employees. In using the word Architect in the name of our organization, we do not know of any law that we are violating, the penalty of which is a heavy fine or prison sentence, as Mr. Wilson insinuates. The truth of the matter is there is no such law.

"As far as carrying the obligations and responsibilities that are associated with the best traditions of the profession, we yield to no one. Our program would establish the profession on a very just and honorable basis and would wipe out the severe exploitation and suffering that architectural employees have had to face because of the whims of chiselling architect employers. Our program calls for the payment of standards of pay that will give to the architectural employee a fairer standard of living.

"The February 15th meeting was one step in our program for bettering the professional standards of those architects who are on WPA, as our call to the meeting indicates:

"For the continuation and expansion of WPA to provide employment for the unemployed architects and draftsmen.

"For the payment of professional wages for architects and engineers. No dismissals. No downward re-ratings.

"Sick-leave and vacations with pay for all.

"Whatever the opinions of Mr. Wilson as to the blame for the difficulties which followed a very peaceful and orderly meeting, Mr. William J. Schieflin, outstanding citizen of New York and Chairman of the Citizens Jury which thoroughly investigated the happenings on February 15th, found:

"The jury finds that the brutality of police in the Square was without justification. The police were unwarranted in refusing to allow the leaders of the demonstration to tell the demonstrators to proceed on the sidewalks, blocking off all points of egress from the Square. The police, in fact, provoked trouble that could easily have been prevented if they had cooperated with the responsible leaders of the demonstration to maintain peace and order."

"Our civil rights and democratic liberties mean too much to us to allow Mr. Oliver Whitwell Wilson to misrepresent the happenings of February 15th and to dishonestly accuse the Federation of violating the law.

"The members of our organization intend to uphold these rights and liberties in bettering their economic conditions and improving the status of the profession."

Signed: MARCEL SCHERER
General Organizer
New York Chapter, Federation of Architects, Engineers, Chemists and Technicians

Editor's Note: We agree that Mr. Wilson's zeal for the maintenance by all architects of their professional dignity led him into faulty logic and that his criminal charges would be impossible to substantiate. His point that real or apparent public misbehavior by architects or architectural groups reflects discredit on the whole profession is, however, correct.

FROM A LITHOGRAPHIC CRAYON DRAWING ON CAMEO PAPER BY ALVYK BOYD
CRUISE OF NEW ORLEANS, MADE DURING TRAVELS AS HOLDER OF THE CRESSON TRAVELING SCHOLARSHIP OF THE PENNSYLVANIA ACADEMY OF FINE ARTS.
THE SUBJECT IS THE QUAI DU MIROIR, BRUGES, BELGIUM, IN THE TWILIGHT.
The unique texture of Nu-Wood enables you to create effects of great richness as shown in the bedroom above.

—Here's First Aid to Modest Budgets

"Give me," said a harried designer of small houses, "a material that has all the durability of conventional interior walls—at much less expense. Let this same material provide effective insulation and aid the functioning of air conditioning equipment. Let it shut out unwelcome noise. And, lastly, let it be a beautiful material—interesting in texture and adapted to any type of architectural treatment."

Yes, there is such a material—Nu-Wood. This multiple-purpose wall and ceiling covering eliminates the high original and maintenance costs of old-fashioned materials. It insulates effectively, and quiets noise. Its texture and colors are matched by those of no other material, making possible treatments of great distinction and richness. And Nu-Wood, with all its virtues, is astonishingly low in price... suited to modest pocketbooks.

There is nothing like Nu-Wood on the market today. Complete information and valuable data for your files are yours for the asking. Just mail the coupon!

WOOD CONVERSION COMPANY
Room 117, First National Bank Bldg., St. Paul, Minn.
I want to know more about Nu-Wood. Please send me, without obligation on my part, information and illustrations.

Name ____________________________
Address __________________________
City _____________________________ State __________________________

PENCIL POINTS
A Simplified Radiator System of Air Conditioning

No one knows better than you architects, that after all is said and done there is no heating that is as satisfactory in so many ways as radiator heat. The only thing it has lacked is air-conditioning.

But now that lack has been fully met in a simple, every-way-practical way by Burnham. With the Simplified Burnham Unit-Air Conditioning System there is no more piping in the basement than with any radiator heating. Still in every way it performs the same satisfactory heating, while also filter-cleaning the air, humidifying it, and keeping it in circulation.

It is done by the Burnham Unit-Air Conditioner located in certain rooms. It takes up no more room than the average grille-enclosed radiator. Can be recessed under the windows. Costs no more than a warm-air system giving an equal performance. Has the advantage of giving both radiant and convected heat. Requires no separate boiler for hot-water supply. Send for Catalog giving facts in detail.

Burnham Boiler Corporation
Irvington, New York Zanesville, Ohio
Representatives in all Principal Cities of the United States and Canada
Paul V. L. Stewart, of Cleveland, Writes

Sir:

"Will you please convey, through the columns of PENCIL POINTS, my thanks to Oliver Whitwell Wilson for a hearty and prolonged chuckle over his indignation, expressed in his letter in the April issue, at the temerity of architects and others who dared insist on recognition of their constitutional rights, both as regards holding a parade and calling themselves architects?"

"Singling out one organization, the Federation of Architects, Engineers, Chemists and Technicians, as the object of his anathema, Mr. Wilson would rush in where angels fear to tread and 'impose a permanent injunction against the further use of the word "Architect" in the title of the organization.' Well, what about other organizations using the word 'Architect,' Mr. Wilson? The American Institute of Architects, for instance? Or the Technical Engineers, Architects, and Draftsmen's Unions; etc.; etc.?

"I believe the time is about ripe for a showdown on this subject of government by injunction as well as on the subject of bureaucratic racketeering fostered by means of licensing and registration laws, particularly with regard to the architectural profession. An 'architect,' according to Webster, is a 'person skilled in the ART of building; a professional student of architecture; or one who MAKES it his occupation to form plans and designs of, and to draw up specifications for, buildings, etc. etc."

"Again, 'architecture,' according to Webster, is 'the ART or science of building.' Further, we find that architecture is one of the 'ARTS of design.'

"Now these definitions were not made for the present occasion. And there is nothing in them which even suggests that an engraved certificate issued to a person by a monopoly-seeking board of racketeers is a sine qua non of the architectural profession. Note carefully: an architect is, among other things, 'a professional student of architecture,' or is one who MAKES it his occupation to form plans and designs of, and to draw up specifications for, buildings, etc. etc."

"As to the parade in which the F.A.E.C.&T. participated, Mr. Wilson, have you ever read the First Amendment to the Constitution? This makes provision for a guarantee of religious freedom, freedom of speech and of the press, and freedom of assembly and petition. READ it! Far from censuring the F.A.E.C.&T. for taking part in a parade in defiance of an automatic Commissioner, you should design a monument to them for insisting on recognition of their rights."

---

Castell Drawing Pencils

guaranteed for depth of color

It is an occasion for no great surprise to us when an architect or engineer brings in a beautiful drawing or rendering and says: "I did that with a 'Castell' about twenty years ago. Look how fresh it is—how it has retained its depth of color."

We know such examples are not accidental. The reason is the remarkable graphite that goes into every "Castell" Drawing Pencil. Specially milled, refined by numerous processes and graded into 18 positively accurate degrees. A pencil whose hardest degree is smooth and whose softest will not flake or crumble. A pencil that is the overwhelming favorite of craftsmen the world over—because it is the world's standard of quality.

A. W. FABER
NEWARK, N. J.

No. 0022 "Castell" Artists' Refill Pencil and No. 9030 Leads—in 16 degrees. This is the most efficient pencil for artists on the market. Note the knurled grip which prevents slipping. This exclusive feature gives you a firm grip and enables you to work smoothly and easily. U. S. Patent Office Trade Mark No. 323640. Ask your dealer to show you one.
A Notable List of Outstanding Architectural Books

THE DESIGN OF LETTERING, Egon Weiss. Alphabets of every style, with "net values" carefully worked out, are provided for the convenience of the user of this book. By the use of Mr. Weiss' system of "Net Values" an inscription to fit a given space can be laid out right the first time—so accurately spaced that only minor modifications, if any, will be necessary. 192 pages, 9 x 12, 155 text illustrations... $5.00

THE WORK OF CRAM & FERGUSON, including some of the work of BERTRAM GROSVENOR GOODHUE. This book includes approximately 354 pages of plates of churches in the mediaeval and Georgian styles, Collegiate and School Buildings, Libraries and Residences, 11 x 14 inches, bound in buckram, enclosed in slip case... $10.00

METAL PLATE LITHOGRAPHY, C. A. Seward. A brief and concise but adequate manual of technique for the process of drawing on and printing from zinc and aluminum plates to produce lithographs. 72 pages including 20 plates. Printed on high quality paper. $6.00

SKETCHING AND RENDERING IN PENCIL, Arthur L. Guptill. Furnishes a sound and thorough guide for the study of pen and ink drawing, covering a vast number of subjects. 300 pages. 9 x 12 inches fuscely illustrated, cloth bound... $8.50

DRAWING WITH PEN AND INK, Arthur L. Guptill. This volume contains details for store fronts, log cabins, theatres and other buildings that are constantly being built. 52 plate pages. 9 x 12 inches, handsomely bound in buckram, enclosed in slip case... $3.00

THE SMALLER HOUSES AND GARDENS OF VERSAILLES, Eugene Clute. This volume sets forth an aspect of the 17th and 18th Century French Domestic Architecture. It comprises nearly 200 pages of exterior and interior views. 9 x 12 inches, handsomely bound... $3.00

THE TREATMENT OF INTERIORS, Eugene Clute. Brief paragraphs, accompanied by many illustrations, point out the new tendencies in decoration and interior design. 208 pages. 59 full page plates and hundreds of smaller Illustrations, complete index... $5.00

THE ARCHITECT'S LAW MANUAL, Clinton H. Blake, Jr. Contains concise statements of the requirements for buildings of different purposes, together with architects' drawings and photographs. Size 9 x 12 inches, profusely illustrated, cloth bound... $7.50

PRACTICAL REQUIREMENTS OF MODERN BUILDINGS, Eugene Clute. Contains practical statements of the requirements for buildings for different purposes, together with architects' drawings and photographs. The entire work of the drafting room is included in the scope of this book. 300 pages, 9 x 12 inches, profusely illustrated, cloth bound... $2.00

GOOD PRACTICE IN CONSTRUCTION, Philip G. Knoebel. Contains 114 plate pages of practical construction details covering 360 subjects. This book, originally published in two parts selling at $4.00 each, has now been revised, enlarged and bound in cloth and published in one volume... $6.00

THE STUDY OF ARCHITECTURAL DESIGN, John F. Harbisson. Follows the method of the Beaux Arts, allowing the student to study and comprehend the underlying principles of architecture. 300 pages, 9 x 12 inches, profusely illustrated, cloth bound... $7.50

DRAWING ROOM PRACTICE, Eugene Clute. Presents a clear and useful manner, a view of present-day drafting room practice. The entire work of the drafting room is included in the scope of this book. 300 pages, 9 x 12 inches, handsomely bound... $2.00

A. I. A. are included. 250 pages, 6x9 inches, cloth bound. $3.00

PARIS PRIZE IN ARCHITECTURE—WINNING DESIGNS, 1904-1927. The designs in this portfolio were chosen by the Society of Beaux Arts Architects, as the best solutions submitted of the exacting problems presented. 69 drawings... $1.50

NEW! PENCIL POINTS LIBRARY REINHOLD PUBLISHING CORPORATION

COLOR IN SKETCHING AND RENDERING NEW!

By ARTHUR L. GUPTILL

This volume offers a vast fund of information on practically every phase of representative painting in water color and related media. Step by step, the text leads through particularly complete elementary chapters (telling exactly what to buy and how to use it) to later professional considerations. Every point is fully explained and graphically illustrated. Numbered exercises are offered for students forced to work without a teacher. Many secrets of the professional are revealed. There are 150 pages, 9 x 12; 195 beautiful full page illustrations, many in full color, and 70 text illustrations. Complete index. We feel this is the most valuable text and reference book on the subject yet published. Send in circular in color. Handsomely and durably bound in cloth... $10.00

FRAGMENTS D'ARCHITECTURE ANTIQUE, D'Espouy. This book contains the exact specifications used for the erection of this hospital, with many illustrations of the various rooms. 500 pages, 8 Vi x 11 inches, bound in buckram, complete index... $6.00

ARCHITECTURE TOSCANE, A. Grandjean De Montigny et A. Famin. This volume contains the entire 110 plates of the original edition, reproduced with the greatest care and faithfulness. 9 x 12 inches... $3.00

REPRINTED DATA SHEETS TO START OR COMPLETE YOUR NOTEBOOK

For those who do not have a complete file, the "Data Sheets" which have appeared in PENCIL POINTS have been reprinted on heavy bond paper. They are all punched and ready for your notebook. These reprinted "Data Sheets" are available in "sets" of 24 sheets. Each set represents those "Data Sheets" which have appeared in PENCIL POINTS issues during a six months' period.

On July 1st, 1936, the ninth set of reprinted "Data Sheets" will be issued. These "Data Sheets" will be reprints of those which have appeared in PENCIL POINTS during the first half of 1936. By purchasing those sets of "Data Sheets" which you need to complete your notebook, you will be able to bring your "Data Sheet" reference book up to date.

The "Data Sheets" are the only loose-leaf reference book available for drafting room use. The loose-leaf feature allows the addition of your own data, makes it possible to remove sheets for use at the drafting board, makes it possible to keep your notebook always up to date. The "Data Sheets" Notebook is small enough so that it does not cover up the entire drafting table when opened, it does not weigh a ton. The loose-leaf binders for filing the "Data Sheets" have smooth, rounded backs and cannot tear your drawings. The "Data Sheets" were originated and prepared by an architectural man for architectural men. The "Data Sheets" have withstood the test of actual drafting room use.

PRICE SCALE DATA SHEETS REPRINTS

Any 1 set... $ .75
Any 2 sets... 1.20
Any 3 sets... 1.95
Any 4 sets... 2.50
Any 5 sets... 3.00
Any 6 sets... 3.50
Any 7 sets... 4.00
All 8 sets issued to date... 4.50
Four 1" binders with index guides, boxed (no Data Sheets included)... 3.00
Four 1" binders, boxed, with index guides and 8 sets of Data Sheets... 6.00
1" stiff canvas binder with index guides (no Data Sheets included)... 85

PENCIL POINTS LIBRARY

330 West 42nd Street New York, U. S. A.
VITROLITE meets today's designing problems.

Designers throughout the country have made use of Vitrolite's highly polished flint-like surface to produce some of the most modern examples of architecture existing today. A variety of colors, shades, and hues makes it adaptable to any decorative plan. Brilliant effects are produced in combination with metals.

Vitrolite is ideal for store fronts, theatre fronts, lobbies,休息室, bathrooms, kitchens, soda fountains, bars, back bars, and counters. A strong factor in its favor is the ease with which it can be applied over a dry, secure surface.

A stroke of a damp cloth keeps it new and fresh for a lifetime of service. The complete absence of checking or crazing gives it lasting durability. Any Vitrolite distributor will set up actual color combinations in Vitrolite for you. Have him show you the special surface effects obtained by sandblasting and color inlays.

VITROLITE THE Colorful STRUCTURAL GLASS
LIBBEY • OWENS • FORD GLASS COMPANY

Ask any of our distributors about the Libbey-Owens-Ford MODERNIZATION BUDGET PLAN which makes it easy to pay for improvements.
BOOK PRICES SLASHED!

It's spring, and housecleaning time, and when we started putting our "house" in order we found too many books on our shelves. Yessir! So what? The boss demanded "get the extras cleared away!" So how? Below is the answer. Compare the original and new prices, then order the items you can't resist - we'll do the rest.

Remember: there's nothing wrong with these books. Each is well worth its original price.

So aren't you lucky?

PRICES YOU CAN'T RESIST

Prices are guaranteed for a limited time only. Act now.

<table>
<thead>
<tr>
<th>CIRCULAR ON REQUEST</th>
<th>ORIGINAL PRICE</th>
<th>NOW</th>
<th>WITH PENCIL POINTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANY BOOK RETURNABLE WITHIN FIVE DAYS</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Drafting Room Practice - Clute</td>
<td>6.00</td>
<td>2.00</td>
<td>3.50</td>
</tr>
<tr>
<td>Metal Plate Lithography - Servard</td>
<td>3.50</td>
<td>2.00</td>
<td>3.50</td>
</tr>
<tr>
<td>Architecture Tocane</td>
<td>6.99</td>
<td>3.00</td>
<td>4.50</td>
</tr>
<tr>
<td>Specifications for a Hospital</td>
<td>6.99</td>
<td>1.00</td>
<td>3.25</td>
</tr>
<tr>
<td>The Treatment of Deterine - Ceute</td>
<td>6.00</td>
<td>3.00</td>
<td>4.50</td>
</tr>
<tr>
<td>Fragments of Architecture Antique</td>
<td>6.00</td>
<td>5.00</td>
<td>6.50</td>
</tr>
<tr>
<td>The Architect's Law Manual - Blakes</td>
<td>5.00</td>
<td>3.00</td>
<td>4.50</td>
</tr>
<tr>
<td>Food Practice in Constructive Path Knowledge</td>
<td>4.00</td>
<td>2.00</td>
<td>3.50</td>
</tr>
<tr>
<td>The Work of Cream and Ferguson</td>
<td>25.00</td>
<td>10.00</td>
<td>11.50</td>
</tr>
<tr>
<td>Practical Requirements of Modern Building - Carl</td>
<td>6.00</td>
<td>2.00</td>
<td>3.50</td>
</tr>
<tr>
<td>Type Page in Architecture (1904-1947)</td>
<td>6.00</td>
<td>1.50</td>
<td>3.25</td>
</tr>
<tr>
<td>The Smaller Homes of Gable &amp; Jaworski</td>
<td>6.00</td>
<td>5.00</td>
<td>4.50</td>
</tr>
</tbody>
</table>

* This last column price is a combination rate applying to both renewals and new subscriptions. Canadian subscriptions 50¢ additional (foreign 80¢) for postage. Note the savings over regular rate of $5.00 yearly.

REINHOLD PUBLISHING CORPORATION, DEPT B
330 West 42nd St., New York, N.Y.

Gentlemen: Please send me the following:

[Blank line]

- I Enclose $__________

NAME  
ADDRESS

I am an [ ] Architect; [ ] Draftsman, or

REDUCED! PENCIL POINTS LIBRARY
CAST IRON VERANDAS

Smyser-Royer cast iron verandas are easily adaptable to most space conditions. Units may be combined to meet required dimensions. Write for our new catalogue.

SMYSER-ROYER COMPANY
Main Office and Works, York, Pa.
Philadelphia Office—1700 Walnut Street

RIGHT-READING Prints
Win Every Time!

Many architects have found the dark blue backgrounds of blue prints a real handicap in presenting plans to clients. For human eyes just won’t get used to reading things “in reverse.” That’s why BLACK AND WHITE Prints—true black-line prints—are so widely used by architects today. BW Prints are “right reading”—easy to read, easy to approve. They make every detail of your plans instantly perceptible. What’s more, the white backgrounds of BW Prints allow legible corrections with pen or pencil. And because BW Prints can be colored with water colors, inks, etc., they are far more useful than blue prints could ever be.

By a revolutionary process, BW Prints are produced directly from your tracings in shorter time than blue prints. If your blue printer is not equipped to make BW Prints, write us for the name of the BW dealer in your city.

BRUNING
SINCE 1897

—Leading the field today in sensitized papers, reproduction processes, drawing material and drafting room equipment.

New York • Chicago • Detroit • Boston • Newark
St. Louis • Pittsburgh • Los Angeles
San Francisco • Milwaukee

CHARLES BRUNING COMPANY
102 Beadle Street, New York, N.Y.
Gentlemen: Please send me complete information about the Bruning BW Process.

Name:

Firm Name:

Address:

See our Catalog in Sweet's Catalog File
EVERY OWNER WANTS THIS

Every branch industry may now have the advantages of modern, efficient low-cost heating.

TRANE Floor Line Spread Unit Heaters are completely enclosed in smart looking cases. They bring to every installation a tone of modernization and efficiency. Inside these master designed casings is the same heating element, the same fan, and general mechanical arrangement that has made TRANE Unit Heaters outstanding leaders in the industry.

The exclusive feature of "Floor Line Spread" brings a type of heating comfort that employees and customers alike will enjoy. No bounce of heat off the floor because TRANE uses a grille to distribute the heated air air instead of ordinary louvers. This Freeflo Grille gets the heat into the cold zone where it is needed.

You can place the full responsibility of the heating system you specify with TRANE because TRANE furnishes all of the heating equipment for complete systems except the boiler and piping.

INDEPENDENT PROTECTION CO.
INCORPORATED
GOSHEN, INDIANA—U. S. A.

Concealed or semi-concealed equipment renders buildings safe from lightning damage. No unsightly exposed rods or spires. I. P. C. materials and installations approved by Underwriters' Laboratories, Bureau of Standards, and Insurance Companies.

Send for booklet on Modern Concealed and Semi-Concealed Installation and Don Graf Data Sheets on I. P. C. Lightning Protection Equipment. Consulting Services of our Engineering Department always available to architects. Write them your problems.
PERFECT REPRODUCTIONS OF PENCIL DRAWINGS WITH MARS LUMOGRAPH

This pencil has an "opaqueness" which closely approximates that of India ink. It gives you a drawing which will reproduce as well as any ink tracing. Mars Lumograph erases easily. Comes in 11 degrees of hardness. Can be obtained from your favorite dealer.

NATIONAL DISTRIBUTORS
Keuffel & Esser Co.
Chicago Montreal San Francisco Hoboken

Chas. Bruming & Co.
Boston Pittsburgh Seattle Chicago Detroit
Milwaukee Newark Los Angeles St. Louis
San Francisco

Micrographic tests to show the greater opaqueness of the Lumograph pencil as compared with that of others.

ARCHITECTURAL ENGINEERING
A practical course (Home Study) by mail only
Prepares Architects and Draftsmen for structural portion of STATE BOARD EXAMINATIONS

For many this is the most difficult section of the examinations. Qualifies for designing structures in wood, concrete or steel. Successfully conducted for past three years. Our complete Structural Engineering course well known for twenty-three years.

LITERATURE WITHOUT OBLIGATION—WRITE TODAY.

FREE EMPLOYMENT SERVICE
(Continued from page 30, Advertising Section)

DRAFTSMAN WANTED: Good man who would like to work in the south. One who is good on small residence work, sketches, working drawings and details. Send full information and samples of work in first letter. George Watts Carr, Durham, N. C.

POSITION WANTED: Experienced young architect, seven years' office practice, capable of all duties in office work, construction work, designing of residences. Will work anywhere in U. S. Box No. 517.

POSITION WANTED: Ten years' architectural and practical experience in medium and high priced residences, and various commercial work in all its phases. My work is neat, accurate and practical, whether on the drawing board or in the field. Have R. A. degree of State of Florida. Married, age 32. Box No. 518.

CONTE CRAYONS
FOUNDED IN FRANCE 1794 and ever since
The Choice of LEADING Artists, Designers, Engravers, Architects, Etc.
A Pencil or Crayon for EVERY POSSIBLE PURPOSE

Our assortment is so complete that it is impossible to list all our items in such small space.
If you are uncertain as to the best type of pencil, crayon or pastel to use on certain textures of paper or canvas, write for our booklet "Pencils and Papers," and enclose three cents for mailing and we will send you a copy Gratis.
If your dealer cannot supply you, write —

WANT ALL THE FACTS on AIR CONDITIONING?

Send for this Valuable Engineering Book!
A complete reference book on air conditioning—692 pages of valuable data covering such important subjects as Air Flow, Sound, Central Cooling, Heating, Ventilating, Dehumidifying, etc. Full of charts, tables, notes, references and technical information not available in any other single volume. Price $5.00, postage prepaid.

AMERICAN BLOWER CORP., 6000 RUSSELL ST., DETROIT, MICH.
Enclosed find $5.00. Send one copy "Air Conditioning and Engineering" prepaid to:

Name:
Street:
City and State:
NEW PRODUCTS
Changes in Personnel, etc.

IRON FIREMAN PNEUMATIC SPREADER

Pneumatic Spreader is the name of a revolutionary power-plant stoker, combining the advantages of both the conventional overfeed stoker and the powdered coal burner, which has just been perfected by the Iron Fireman Mfg. Co., Portland, Ore.

Not only finer particles of coal, but also lumps up to 1 1/2 in. in size are floated into the furnace on a stream of air. The finer particles are burned in suspension. The larger pieces are burned in uniform, shallow layers on the grates in such a manner that the temperature at the grate line is below the fusion point of ash and even high-sulphur coal does not clinker.

The new stoker eliminates the reconstruction of the entire boiler front required with installation of the conventional overfeed stoker. With Pneumatic Spreader, it is only necessary to cut a hole in the boiler front large enough to admit the spreader nozzle. There is no overhead mechanism to interfere with cleaning the firebox, and fire doors remain full height.

Pneumatic Spreader is particularly adapted to the firing of power and process boilers for industrial purposes, and burns the coal over a maximum grate area.

The stoker can be located to suit conditions, usually from eight to fifteen feet from the boiler front, and even in a separate room. Pneumatic Spreader is available in five sizes with capacities ranging from 75 to 500 boiler hp.

JOHNS-MANVILLE EXPANDS ITS LINE OF ACOUSTICAL PRODUCTS

Johns-Manville Corp., New York, announces it has arranged to expand its line of acoustical products by becoming sole distributors of Acoustex and Silentile non-combustible, noise reducing building materials manufactured by the Atlantic Gypsum Co., Boston. These products are in addition to those developed in the J-M laboratories in the past 25 years.

Marketing of the materials, made from wood fibre and asbestos, will begin immediately. Acoustex and Silentile, subjects of experiment in Eastern laboratories for the past several months, will be used for noise reduction and acoustical correction of office buildings, hospitals, public buildings, theatres, libraries, educational institutions and other buildings.

NEW ARMSTRONG INSULATING BOARD

Development of a new smooth-finish insulating board is announced by the Armstrong Cork Products Co., Lancaster, Pa. The hairy or coarse textured surface which heretofore has been characteristic of all insulating board has been entirely eliminated in the new Armstrong board, which will be known as Temlok De Luxe. The new smooth finish is obtained by an exclusive surface treatment and the full insulating value of the board is retained.

The pleasing texture of the new board and the range of colors open up a broad field for its use as a decorative interior treatment. Temlok De Luxe is available in standard size boards, 4' x 8' to 12'. In addition to the natural golden buff color of Temlok, the new board also is furnished in white, cream, ash, and walnut colors.

The new light colors offer high light reflection value. The new board also possesses valuable acoustical properties. Thus it is especially suitable for office buildings, schools, stores, restaurants, taprooms, and many other types of buildings as well as for residential work.

Original and pleasing decorative effects will be easy to achieve with the new Temlok De Luxe. It provides an attractive allover finish and is ideal for use in connection with wood trim or wainscoting.

NEW WIN-DOR EXTENSION HINGES FOR CASEMENTS

Announcement of a new casement window hinge for wood sash is announced by the Casement Hardware Co., Chicago, Ill. It is designed to extend the sash 4" away from the frame when the casement is opened. The object of this extension is to permit room for cleaning the outside surface of the glass from the inside of the room as easily as the inside is cleaned.

Another advantage is the fact that when the window is opened in the summer time and the greatest amount of ventilation is desired, the sash acts as a baffle for breezes, deflecting this air into the room on both sides of the window.

The hinge is made very strongly of steel and is designed to reinforce the corners of the sash. Twelve square feet of metal bearing surface give this added strength. It is the loose pin type with bronze bushings.
MONARCH DEVELOPS NEW METAL ALLOY FOR WEATHERSTRIPS

An entirely new metal alloy developed especially for use in the manufacture of weatherstrips has recently been announced by the Monarch Metal Weatherstrip Corporation, St. Louis, Mo. The new alloy which is marketed under the trade-mark of MetaLane is the result of more than twenty years of exhaustive research and experimentation on the part of the Monarch company to discover a superior metal for weatherstrip manufacture.

MetaLane alloy is a special combination of aluminum, used as a base to give it lightness, and other metals, added to give it hardness, resiliency and durability in accordance with an entirely new Monarch formula.

Prior to being formed into weatherstrips, the new metal is subjected to a special electro-chemical treatment, which gives it a very hard wearing surface, with a dull silver finish and without, in any way, affecting the resiliency or springiness of the metal.

In the next step the metal is treated with a special lubricant so that when in use two shapes of weatherstrip are permitted to rub, one on the other, without galling or scoring. Ease of operation naturally follows when this specially lubricated metal is used.

It is pointed out that weatherstrips made of MetaLane alloy will not tarnish or discolor regardless of weather conditions, thus the danger of drip-staining adjacent surfaces is removed. Furthermore, it is stated that this new metal resists corrosion which is an important factor from the standpoint of economy.

NEW BRONZE ROLLING GRILLE

The Cornell Iron Works, Inc., Long Island City, N. Y., announces the installation of the first bronze rolling grille ever made in this country at Luchow’s Restaurant, New York, as shown in the accompanying illustration.

The grille is composed of 5/16 in. round horizontal polished bronze crimped rods connected by vertical links of polished cast bronze. The entire grille is finished in statuary bronze color to match the bronze revolving door behind it. The grille is retained in bronze channel shaped vertical side guides at each jamb and locks in securely against any possible pulling out or forcing. The weight of the grille is counterbalanced by tempered springs contained in a 4 in. horizontal pipe shaft located above the opening behind the fascia. It works with ease and the convenience of a window shade. The grille rolls up around the pipe shaft and is out of sight when opened.

An eight-page catalog is available upon request. Dimensions, specifications, descriptions and illustrations are included.

NEW BARRETT PITCH FOR STEEP ROOFS

Having demonstrated, throughout a long period of years, its exceptional qualities for built-up flat roof construction, coal-tar pitch now enters the lists as a steep roof material. The Barrett Co., New York, has just announced its new Steel Roof Pitch which makes possible the use of fire-safe and highly protective gravel or slag surfaces which heretofore have been confined to use on flat, or nearly flat, surfaces.

The new pitch, it is pointed out, will withstand the coldest of winter weather without cracking, checking or loss of bond, and it is particularly resistant to slide at high temperatures, even beyond those limits to which roofs are normally subject.

Roofs constructed of steep roof pitch, felt and gravel (or slag), applied according to specifications furnished by The Barrett Co., are bonded for 20 years by the United States Fidelity and Guaranty Co. Steep roof pitch is being promoted for use on built-up roofs with inclines of from two inches to six inches to the foot.

GENERAL ELECTRIC ELECTS J. W. LEWIS ASSISTANT TO PRESIDENT

J. W. Lewis, who since 1923 has been assistant to Gerard Swope, president, has been elected treasurer of the General Electric Company. He succeeds R. S. Murray, who is retiring on May 1 because of ill health.

In addition to the election of Mr. Lewis as treasurer, the board of directors at the same meeting re-elected Owen D. Young, chairman of the board, and Gerard Swope, president, positions to which they both were elected in 1922. Other executive officers were all re-elected.

The Hoffman Specialty Co., Waterbury, Conn., has appointed Frank J. Weber as factory representative in the Buffalo territory. Mr. Weber formerly represented the Hoffman Specialty Co. in Detroit.

Crane Co., Chicago, Ill., announces the appointment of George L. Erwin, Jr., as assistant to P. R. Mork, vice-president in charge of sales. In his newly created position, Mr. Erwin will develop sales and market research activities.

Jas. P. Marsh Corporation, Chicago, Ill., has appointed the Chas. M. Bailey Co., Inc., as its representative for the Southern California territory.


W. V. Peters has been appointed manager of the steel window and door department of the Truscon Steel Co., Youngstown, Ohio. Entering the employ of the company 17 years ago, Mr. Peters’ first duties were as sash salesman in the Cleveland office. Following this, he was promoted to the post of manager of the steel sash and door department of the Detroit district sales office. He was then, successively, special representative in the East, with headquarters in Philadelphia, and district sales manager of the Cleveland office, where he remained for over four years, or until his recent promotion to his present position.
SUPERFINE DRAWING PENS

No. 170 No. 303 No. 290 No. 291 No. 404 No. 659

BEAUTIFULLY finished, having the right degree of flexibility, with a point for every type of artistry. The name Gillott represents over 100 years of leadership in steel pen manufacturing.

For sale at leading stationery and artists' supply stores. Or the above group will be sent to you on receipt of 25c in stamps.

ALFRED FIELD & CO., Inc. 93 Chambers Street New York, N. Y.

INDEX TO ADVERTISERS


American Blower Corporation ........................................... 41
American Cyanamid & Chemical Corporation, Structural Gypsum Division .................................................. 3
American Laundry Machinery Company ........................... 12
American Pencil Company ............................................. 2
American Radiator Company ......................................... 4
Armstrong Cork Products Company, Building Materials Division ................................................. 9
A. W. Faber, Inc. .............................................................. 35
Briggs Manufacturing Company ....................................... 19
Bruning, Charles, Company, Inc. ..................................... 39
Burnham Boiler Corporation .......................................... 34
Celotex Corporation, The ............................................... 29
Congoleum-Nairn, Inc. ...................................................... 20
Conté Crayons ................................................................. 41
Crane Company ................................................................. 13
Dixon, Joseph, Crucible Company ...................................... 25
Eagle Pencil Company ....................................................... 7
Field, Alfred, & Company, Inc. ......................................... 44
General Electric Company ................................................... 8
Independent Protection Company ........................................... 40
International Cement Corporation Back Cover
Iron Fireman Manufacturing Company ........................................... 31
Jamison Cold Storage Door Company ........................................... 39
Kewanee Boiler Corporation ............................................. 27
Kinnear Manufacturing Company ........................................... 40
Maple Flooring Manufacturers Association ................................. 17
Milcor Steel Company ......................................................... 46
National Electric Products Corporation ........................................... 45
National Terrazzo and Mosaic Association ........................................... 15
Pecora Paint Company, Inc ................................................. 12
Pittsburgh Glass Institute .................................................. 3rd Cover
Samson Cordage Works ......................................................... 45
Sloane, W. & J., Selling Agents Division ........................................... 6
Smyser-Royer Company ..................................................... 39
Staedtler, J. S., Inc. ............................................................. 41
Standard Lime & Stone Company, The ........................................... 34
Stevens Hotel ................................................................. 44
Trane Company, The ......................................................... 40
Truscon Steel Company ...................................................... 2nd Cover
Universal Atlas Cement Company ........................................... 10
U. S. Steel Corporation Subsidiaries ........................................... 10
Vitrolite Division, Libbey-Owens-Ford Glass Company ................................. 37
Vonnegut Hardware Company ............................................. 5
Williams Oil-O-Matic Heating Corporation ........................................... 6
Wilson Engineering Corporation ........................................... 41
Wood Conversion Company .............................................. 33
Youngstown Sheet & Tube Company ........................................... 18

THE STEVENS
World's Largest Hotel
CHICAGO

Like European hotels of great repute, The Stevens is just outside the noisy central business district—yet but a few steps to wherever one wants to go in Chicago. Rooms with bath from $2.50.

DINE SMART—THE CONTINENTAL ROOM

M A Y
1 9 3 6

44
National SAFECOTE "FIRE-STOP" RUBBER COVERED WIRES and CABLES

THE ULTIMATE VALUE IN RUBBER COVERED WIRES AND CABLES

Built for Permanency from the highest quality of raw materials.

With Safecote "Fire-Stop" finish. Protected against moisture, air, light and heat. Hermetically sealed against those agents which tend to destroy them. Flame retarding.

QUALITY BUILDING WIRE at No Extra Cost

WRITE FOR DON GRAF DATA SHEETS

SAMSON SPOT SASH CORD

When an architect wants to be sure that the most durable and economical material will be used for hanging windows, he specifies Samson Spot Sash Cord. He knows from long experience that it is the one cord he can always depend upon to be of the same high, uniform quality. He knows that it is made in only one grade positively protected against substitution by the Colored Spots—our trade-mark.

Architects everywhere hold Samson Spot Sash Cord in high esteem, because it merits their confidence with its longer service—often extending to more than twenty-five years. It has greater toughness than ordinary cord due to the great number of fine three-ply yarns in each strand—no cheap roving is used—no loaded center—it is all yarn. It resists wear longer over pulleys because its surface is firmer, smoother. It does not stretch. It is noiseless.

Specification data showing sizes and actual wear tests gladly sent upon request.

SAMSON CORDAGE WORKS 59 Batterymarch St. BOSTON

durability * efficiency ... economy ...
PLASTER plays the most important part in the construction of walls and ceilings; but plaster is dependent upon plaster base and as a rule a plastering job is just about as good as the plaster base used.

It is an accepted fact that Metal Lath is the finest plaster base available. There has never been any base invented which can approach its many advantages.

Kuehn's Specialmesh, because of the new meaning it has given to Metal Lath, is accepted by many as the best Metal Lath manufactured. It is fully described on page 5 of the Milcor Manual in "Sweet's." (Section 14/7.)

Milcor Expansion Corner Bead and Casing, because they perform their particular functions as well as does Metal Lath, are outstanding products. Write for information or refer to the Milcor Manual in "Sweet's."

**Kuehn's Specialmesh**

Kuehn's Specialmesh Metal Lath has unusual strength and rigidity. Its design ... a Milcor patent ... affords the maximum protection against plaster cracks.

**Milcor Products**

Milcor Expansion Corner Bead is distinguished by its expanded metal wings ... This feature ... a Milcor patent ... permits a perfect grip upon the plaster and prevents chipping off from unavoidable abuse.

MILCOR STEEL COMPANY

MILWAUKEE, WIS.

CHICAGO, ILL.

CANTON, OHIO

KANSAS CITY, MO.

LA CROSSE, WIS.

MAY

1936
The formation of the Pittsburgh Glass Institute marks a new step forward in the building industry. As an architect, you are aware that glass is playing an increasingly important part in modern building design, that today is, in reality, an era of glass. Yet hitherto there has been no authoritative agency to which the members of the building industry might apply for information on glass. There have been no accepted standards for using built-in glass in construction.

The Pittsburgh Glass Institute, with an advisory board composed of experts in the various phases of the industry, is intended to remedy this condition. Its primary purpose is to assemble and coordinate all available data on the many uses and applications of glass that have been developed through modern manufacture ... to establish authoritative standards for the use of glass.

If you have any problems concerned with the functional or decorative use of glass, we invite you to apply to the Pittsburgh Glass Institute for assistance in their solution. We believe the Institute can render outstanding service to the architects and building trade of America.
Forty thousand people saw the first race at Suffolk Downs, East Boston, last July 10. Ten weeks before, the track site had been a barren waste, a public dump. Once again the 'impossible' was accomplished. To illustrate: Work on 'the world's largest race-track grandstand'—8,000 cu. yds. of concrete—started May 24, was completed June 21. With ordinary cement, forms would have remained in place six days, requiring purchase of lumber for the entire job. By using 'Incor' 24-Hour Cement, forms were stripped in two days, re-used again and again. That meant 62 1/2% fewer forms. Result, a $10,000 saving—more than three times 'Incor's added cost.

‘Incor’* is a better Portland cement—it attains service strength in one-fifth the usual time. But it goes much deeper than mere time-saving—for 'Incor' saves money, by eliminating dead-time waiting for ordinary concrete to harden. This basic principle applies wherever concrete is used—suggesting that contractors be encouraged to estimate under form-removal specifications which take full advantage of 'Incor's earlier service strength. Made and sold by producers of Lone Star Cement, subsidiaries of International Cement Corporation, New York; also sold by other cement manufacturers. *Reg. U. S. Pat. Off.