ARCHITECTURE

July 1932

John Calvin Stevens
AN ANALYTICAL PORTRAIT BY E. F. LAWRENCE

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HARRY STERNFELD, ARCHITECT

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CHARLES FOLLEN MCKIM FELLOWSHIP

FOR his design of a $7,000,000 Columbia University skyscraper of thirty stories, equal in capacity of Sayville, Long Island, has been awarded the Charles Follen McKim Fellowship of the Columbia School of Architecture, as announced by Dean William A. Boring. The fellowship carries a stipend of $2,500 for study abroad.

The idea of erecting a skyscraper in the midst of what McKim envisaged as an academic city surrounding the great dome of the University Library, which he completed in 1897, was suggested to President Nicholas Murray Butler and the Columbia trustees by Dean Boring, who pointed out that such provision is the solution of the building problem of Midtown Heights.

This year's competition for the McKim fellowship brought out numerous designs of unusual merit. Second prize of $500 went to James Sasso, of 181 Lincoln Road, Brooklyn, and third prize, also of $500, to Joseph D. Marce of Farmingdale, Long Island. They will study at Fontainebleau Summer School of Fine Arts. Both are graduates of Columbia College.

Vincent Furno, of Hempstead Gardens, Long Island, was first alternate; Hyman Roche, of 2798 Webb Avenue, New York, second alternate; and Eugene Soniat, of Webb Avenue, New York, second alternate. The jury of award was composed of the following five members of the American Institute of Architects: Dean E. V. Meeks, Yale University; Arthur L. Harmon, Harvey W. Corbet, Ely Jacques Kahn, William A. Delano.

A MONUMENT TO LENIN

An international competition has been announced to obtain designs for a monument to Lenin in a port of Leningrad, Russia. The conception of the project is to be in line with the basic idea of Leninism as contained in Stalin's definition: "Leninism is Marxism of the epoch of imperialism and of the proletarian revolution."

The height of the monument is to be 110 meters (360 feet) above sealevel; the cost is estimated at about 6,000,000,000 rubles. Prizes to be awarded are as follows: First Prize, 10,000 rubles; Second Prize, 8,000 rubles; Third Prize, 6,000 rubles; Fourth Prize, 4,000 rubles; Fifth and Sixth Prizes, 2,000 rubles each.

The closing date of the competition is September 15, 1932, but further details are expected, and may be obtained through application to the American Russian Institute, 131 East 60th Street, New York City.

NEW YORK CHAPTER, A.I.A.

CHARLES H. HIGGINS has been elected president of the New York Chapter of the American Institute of Architects for the coming year. Mr. Higgins, a former member of the City Planning Commission of Jersey City, succeeds Stephen F. Voorhees.

Dwight James Baum, recently awarded the gold medal by Better Homes and Gardens for the best two-story house constructed in America between 1926 and 1930, was elected vice-president, to succeed Julian Clarence Levy. Other officers named were Eric Kebbin, secretary; Frederick Mathesius, Jr., treasurer; and Christopher La Farge, recorder.

BUILDING CONSTRUCTION

REPORTS of F. W. Dodge Corporation show that of the thirteen districts comprising the thirty-seven States east of the Rockies all but three showed higher construction contract totals in April than in March. April contract totals for the entire eastern area showed an 8 per cent gain over March in contrast with a loss of a per cent between the corresponding two months of 1931. But only slight encouragement is offered by the current pick-up since analysis discloses that the gain was entirely due to public works, especially highways.

Metropolitan New York, Southern Michigan, and the Chicago territory were the exceptions which did not partake in the April advance over March this year. The April total for the entire thirty-seven States east of the Rockies was $121,704,800. Residential building formed $28,894,700 of this total; non-residential building formed $45,515,000; and public works and utilities amounted to $47,295,100.

Residential building gains over March of this year were shown in the New England, Chicago, Central Northwest, Southern Michigan, St. Louis, Kansas City, and New Orleans districts. In the case of non-residential building, gains over March were shown only in the New England, Metropolitan New York, Upstate New York, Middle Atlantic and St. Louis territories.

ASBURY PARK WANTS ARCHITECTURAL DRAWINGS

WE are advised by W. Earl Hopper, director, that the City of Asbury Park is desirous of dedicating a section of its new $1,000,000 Hall of Nations (Convention Hall) as a Museum and Art Gallery of Peace.

The purpose of this Hall of Nations is to help promote the spirit of international friendship and good will among the nations of the world. The City of Asbury Park is desirous of having a number of architects contribute specimens of their drawings (monuments) to the City in order that they may be placed in the permanent International Exhibit of Architectural Drawings which will be housed in the Hall of Nations.

MELLON INSTITUTE DEVELOPS A NEW STEEL FLOORING

ACCORDING to a research report published recently by Doctor J. H. Young, extensive scientific investigation and development, carried out cooperatively by Mellon Institute of Industrial Research and the H. H. Robertson Co., of Pittsburgh, Pa., has created a new steel floor slab, called the "Robertson Keystone-Beam Steel Floor." Copies of this report, containing detailed practical data and illustrations, may be obtained by applying to Mellon Institute, Pittsburgh, Pa.

This novel floor slab, 24 inches wide and up to 12 feet 5 inches in length as built at present, is fabricated by preforming two steel sheets and subsequently welding them together in the plane above the neutral axis. A cross-section taken through the width of a completed unit shows four keystone-shaped cells, all connected together near the neutral axis. This design is said to provide maximum load-carrying efficiency of the metal. It is reported that the high strength factors, combined with the relatively low weight per square foot, make possible savings in building construction because of the decreased load-carrying requirements for floor slabs, columns, and foundations. The four ducts that constitute

(Continued on page 2)
REPUTATION also depends upon the care exercised in the MAINTENANCE of your building.

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tute each unit are spaced at six-inch intervals and connect directly, when installed, with the corresponding ducts of the adjacent section of floor slab. Doctor Young states that this arrangement enables the utilization of this new floor not only as a load-carrying member, but also as a multiple floor-duct system for handling all types of electrical lines. He points out that such a grouping of parallel cells with six-inch spacing permits, at any subsequent time, the installation of electrical outlets within a radius of three inches from the exact location required, thus affording great electrical flexibility and precluding the likelihood of electrical obsolescence.

It is claimed that the installation of the keystone slab can be accomplished with ease and rapidity, owing to the fact that it may be handled as readily as a large plank. This 24-inch slab is laid across the structural beams and then bolted, clipped, or welded to the supporting members, thus eliminating planking and form work with the immediate placement of a floor on which the various trades may work. This floor, which plays a dual role in furnishing maximum efficiency from a load-carrying standpoint and in assuring permanent electrical flexibility, is incombustible and fire-safe.

STEEL BRIDGE COMPETITIONS

A JURY of nationally known architects and engineers has been named by the American Institute of Steel Construction to select the most beautiful bridges of steel erected and opened to traffic during the past year. This is the fourth annual competition held by the Institute. The prize-winning bridges will be decorated with suitable tablets made of stainless steel.

The jury will consist of Professor L. C. Dillenback of the School of Architecture, Columbia University; Raymond M. Hood, architect, of New York; Professor C. T. Bishop, Sheffield Scientific School of Yale University; F. O. Dufour, consulting engineer, of Philadelphia; and A. L. Kocher, Managing Editor of The Architectural Record, New York.

Builders, fabricators, commissionaires, and other owners have been invited to enter new bridges in this competition. The selection will be made from photographs together with adequate descriptions.

Three awards will be made in three different classes. Class A will include all bridges costing over $1,000,000. Class B will include those costing between $500,000 and $1,000,000. Class C will include bridges costing under $500,000.

The American Institute of Steel Construction has also been fostering the design of bridges by engineering and architectural students. This year's problem called for the design of a highway grade separation bridge over a railroad crossing. From 111 entries coming from 21 colleges and universities, 10 designs were selected in the preliminary stage. The final awards were: First, Boris R. Leven, a student in the College of Architecture, University of Southern California. Second, Edward S. Okubo, from the same college. Third, Leslie E. McCullough, a student in the Department of Architecture, Iowa State College. The jury of awards consisted of Jay Downer, chief engineer of the Westchester Park Commission; Doctor D. B. Steinman, consulting engineer; Harvey Wiley Corbett, architect; Ely Jacques Kahn, architect; and Russell F. Whitehead, Editor of Pencil Points.

GEORGE B. BOOTH
TRAVELLING FELLOWSHIP

THE College of Architecture, University of Michigan, awarded the Booth Travelling Fellowship in Architecture, a fellowship which carries a stipend of $1,200, to Malcolm R. Stimson, of Detroit. Second place went to Earl W. Pellerin, also of Detroit, and third place to Floyd R. Johnson, Heights Canal Zone. There were eighteen competitors working on the problem of an art club. The jury: B. V. Gamber, president of the Detroit Chapter, A. I. A.; Herbert G. Wentzell, of George D. Mason & Co., architects; Amadeo Leone, of Smith, Hinman & Grylls, architects and engineers; Robert W. Hubel, from the office of Albert Kahn; architects, Richard H. Marr, Clair W. Ditchy and Arthur K. Hyde, and five members of the architectural faculty.

RUTH DEAN EMBURY

MRS. AYMAR EMBURY, II, who was widely known as a landscape architect under her maiden name, died suddenly at her New York home on May 26. Mrs. Embury was the only woman to whom The Architectural League's Gold Medal of Honor in Landscape Gardening has been awarded. The award was made in 1929 for gardens connected with the Detroit homes of Mrs. Howard Bonbright, Hiram Walker, and Ledyard Mitchell. Mrs. Embury was born in Wilkes-Barre, Pa., attended grammar and high schools there, and was later graduated from the University of Chicago. She was a member of the American Society of Landscape Architects.

ALFRED F. PASHLEY,
1856-1932

ALFRED F. PASHLEY, architect, of Chicago, who died on May 23, was born at Lodi, Wis., in 1856. As a young architect he became a partner of the late Major J. R. Willett. The firm of Willett & Pashley designed Holy Name Cathedral, the archbishop's residence on North State Street, the latter's country house at Beehanville, St. Mary's School at Beehanville, the Chicago Times Building, the Kankakee Insane Asylum, and other large projects. Mr. Pashley's office has become famous for the men who served their apprenticeship at his tables. Among them were: Dankmar Adler, of Adler & Sullivan; Daniel H. Burnham, Hugh Garden, and Birch Burdette Long. Mr. Pashley was an early member of the Chicago Chapter, A. I. A., and also a Fellow of the Institute.

W. SYDNEY WAGNER,
1883-1932

W. SYDNEY WAGNER, who was born in Brooklyn, N. Y., in 1883, died May 26 at the Huntington, Long Island, Hospital after an operation for appendicitis. Mr. Wagner was a member of the firm of Bottomley, Wagner & White, of New York. In 1907 he won the Paris Prize of the Beaux Arts Institute of Design. Mr. Wagner was formerly a member of the firm of George B. Post & Sons, which he joined in 1920. He was a member of the Society of Beaux Arts Architects, The Architectural League of New York, and the American Institute of Architects.

PERSONAL

Frederic W. Mellor, architect, announces the removal of his office to 110 East 42d Street, New York City.

George W. Sabiel, architect, has opened an office for the practice of architecture at 101 Park Avenue, New York City.
THE brilliant polish and sparkling, lasting beauty of its windows emphasize the charm which won for this fine home the current award of the Architectural League Show for Domestic Architecture... It is the residence of Mrs. J. J. Goodrum, Atlanta, Georgia. Architects: Hentz, Adler and Shutze. Contractors: Collins, Holbrook and Collins. Glazed with Libbey-Owens-Ford Quality Glass.

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Rockefeller Centre in the Making
From the pencil drawing by Mott B. Schmid
In his office John Calvin Stevens is called “The Boss,” with a peculiar inflection which conveys admiration of his ability and power, as well as deep loyalty and affection. This has been so for fifty years. Today, with his son’s name on the door and his son’s son about to be graduated from a leading architectural school, the tradition of service he has built up in his profession and his community, and is maintaining as rigorously as ever, bids fair to be carried on for many more years.

“The Boss” is as loyal to his staff as they are to him. Not so long ago, one of his former office boys returned after an absence of twenty years, to find intact, as when he left, the same staff from secretary to head draftsman. In spite of the depression no one from the present staff has been let out. With such a record it goes without saying John Calvin Stevens is a humanist and a fighter as well. His life has been as rich in serving as it has been in conquering obstacles.

Many architects are slaves to the pencil. Without its mark on the paper thought seems sterile and slow. Results are gained by calque over calque. In the medley of solutions resulting, too often a wrong decision is made in the final choice of parti. Not so with John Calvin Stevens, who has made the pencil a tool as it should be. With him the study period is carried on in his mind and the pencil is then called upon to express his thinking. This it does clearly and brilliantly.

The “seeing of the site” is to him a ceremonial. Every contour, tree, rock, stream, spring is recorded on the drawing-board in his brain. Orientation, vistas and outlooks, prevalent winds and neighborhood developments are studied. Then, and only then, in his mind he models as does the sculptor, composes and conserves until, presto, like magic the finished thing blooms in the freehand sketch that sends the client into ecstacies. (Stevens says this is “pretty strong,” but look at his sketches and judge for yourself.) Strange to say, the finished product is usually as like the sketch as are two peas in a pod.

To the draftsman come Stevens’s sketches on old envelopes, catalogues or what not—of bird’s-eye and worm’s-eye views, complicated roof intersections and details of entrance, or special features. The problem is solved before it comes into the drafting-room.

The school-trained assistant remarks: “But, boss, I don’t feel the axis,” and then loses himself in the charm of the thing, exclaiming enthusiastically as he works: “What a bully house
What Mr. Stevens was drawing almost forty years ago

to live in!" and "How it fits the site!" This is why a water-colorist of note, on being introduced to Stevens, exclaimed: "Oh! I know your work! You are the man who designs summer cottages that we can paint."

Another illustration of his extraordinary power of visualization: He is at Chinon, perhaps. After visiting the château, he sits in the shade of the awning at the café and sketches his impressions. His pals, admiring the composition, go off in a mad scurry to find it, but it was never there; still the sketch is clearly Chinon. Again, he sees a site with a poorly composed building on it. In an incredibly short time of observation, down goes a snappy indication of what should have been.

Professor Francis Chandler once said: "He who can design a State House can design a house." In Stevens's case the reverse is proved, for while he has to his credit a long list of achievements in commercial, civic, and ecclesiastical work, he came into the profession largely through the residential field. Certainly, too many of our State capitols have been designed by eclectics. The real house architect must of necessity approach his task as a functionalist, and Stevens's mental and aesthetic processes are functionalistic. However, he is something of a romanticist when it comes to Colonial work, for he lives in the midst of fine old examples which he has been called upon to remodel and restore. He is a sensitive interpreter of these early architectural traditions, but his understanding is that of one who knows his materials, his tools, and his people.

It is as a functionalist in the domain of residential architecture that lies, perhaps, his greatest contribution to the profession. Functionalists are always the modernists of their time. Could it be otherwise? In the early 'eighties, when Stevens entered the profession, the jig-saw and the lathe were prolifically serving their ostentatious, nouveau-riche clientele. William R. Emerson, of Boston, one of Stevens's prized friends, from whom he gained "much sense and enthusiasm," and Wilson Eyre come to mind as two of his confrères who, with him, were modernists of that day and dreamed as did Goodhue in his later years, of architecture simplified and restrained, expressing functions beau-
tifully and eliminating non-essentials. It was in their case a renaissance recognizing the eternal verities; a method of work and an approach that called for logical plan and good mass, as well as right use of materials. When one considers the mire of poor taste and cheap show out of which Stevens’s work emerged, his achievement is the more noteworthy, and it is a privilege to record it here as epochal in its import and influence on contemporary architecture.

In 1889 Stevens and his partner, Albert Cobb, published a book called *Examples of American Domestic Architecture*, which received favorable comment, especially in the English press. Although the text was from the pen of Cobb, the following quotations are given to indicate the humanistic approach of the firm.

“The apparent need is that a reform in the prevalent style of American Architecture be instituted; that the art be released from the influence of an extravagant ideality, and directed instead by rational, righteous ideals. . . . Its accomplishment will assure for the art of Architecture an exalted place in the public esteem. . . . This question, then, of the necessity for reform in American Architecture, we propose to discuss. . . . When throughout any community there develop marked and painful contrasts in the circumstances of its people, so that while one large class of citizens possesses over-abundantly the requisites for supporting and em-
bellishing life, another even larger class lacks extremely the very essentials of wholesome existence; immediate relief for this less fortunate class is to be sought, not by the development of additional resources, but by a different disposition of resources already at hand. For, while the world endures, such general privation falling in contrast with neighboring abundance upon any considerable body of industrious, well-meaning people, falls thus never because God's providence for them has failed, but rather because human mismanagement has hindered a just distribution of His all-sufficient bounties. . . . Thoughtful men have recognized this, and have been earnestly inquiring the cause of the trouble, and seeking remedies."

The wise educator recognizes that the best-educated man, be he school-trained or not, is, after all, self-educated. Stevens is self-educated, cultured, and well informed. His versatility is amazing. Pencil, pen, water-color, or oil—it matters little; he is a fine technician in them all. He is a painter of distinction. About him in his office are always a number of his paintings. These show the client that a mere architect can be a master of color and competent to advise in such matters.

For many years, each week-end, rain or shine, he with his group called the "Brushuns," have painted. Stevens works also on wood, using thin oil stains to make flat, exquisite murals. He is a gardener par excellence; was a
one-term councilman (one was enough), and formerly president of the Chamber of Commerce and president of the Portland Society of Arts. He is a leader in civic enterprises.

His office is conducted as a business establishment, as well as a studio of design. He is an efficiency expert, judged by the savings he has made for his clients in redesigning heating and power plants and factory layouts. With all these varied activities, his greatest hobby is his family. He is as loyal to his forebears as he is proud of his swarm of grandchildren. From all
of which it may be seen that Stevens is a prize “Digressionist.” He is one of those rare human dynamos, and it is good that, after fifty years of strenuous, active professional and civic life, the dynamo is still generating a magnificent vitality and force. He will never be anything but young, if the old saying is true that it takes a hobby to retard old age.

The Institute has of late stressed the importance of the services of the architect in the smaller communities. Few exemplify more than does John Calvin Stevens what that service can be. His office is an institution in Maine. That its fine reputation and ideals show no sign of breaking down after all these years, is worthy of note by itself. The leaving along the way of well-designed and well-built monuments to his talent is worthy of praise. When to all this is added a distinguished type of civic leadership, and a contribution of unusually high quality to the art life of his community, it is eminently proper to tell his story to his confrères, especially of the younger group who too often have eyes only for those eclectics who have suddenly discovered the signs of the times.

Some one has said: “It takes three men to be an architect—an engineer, a business administrator, and an artist.” John Calvin Stevens, master builder, qualifies in all three, a rarity in these days of narrow specialization. With him there is no pigeon-holing, no separation of design from construction, of beauty from practicality.

Lest this all too brief account, by stressing Stevens’s success in the field of domestic architecture, marks him exclusively as a house architect, the following list is given, mentioning some of the important work which has come or is coming from his office:

- Portland Federal Post Office; Portland City Hall, as associate of Carrère & Hastings; Eastern Maine Insane Hospital, at Bangor; Maine Eye and Ear Infirmary; Madigan Memorial Hospital; Hebron Sanitarium; work at Southern Branch Home for Disabled Volunteer Soldiers;
- Y. M. C. A. Building and theatre at Bath, Me.; Fryeburg Academy; Physical Laboratory and Chemical Laboratory at Colby College, Waterville, Me.; several school buildings in Portland, Me.; building for Ricker Classical Institute at Houlton, Me.; L. D. M. Sweat Art Museum, Portland, Me.; town hall at Skowhegan, Me.; large shop building for Portland Water Works; enlargement Poland Spring House and other buildings at Poland Springs; Marshall House at York Harbor, Me.; The Emerson House at York Harbor; Hotel Pemberton, Nantasket, Mass.; several memorial libraries throughout the State; York Institute, Saco, Me.; many small churches; a number of small banks; power house at Gulf Island and power house at Bingham, Me.; laboratory for A. S. Hinds; laboratory for Schlotterbeck & Foss; Portland Boys’ Club.
For whatever use they may have been intended, towers that serve merely as utilities are successful only to that extent. Often there are other purposes for the tower, involving ideals that can be expressed architecturally, and when this is accomplished a high degree of perfection results. The materialistic objectives of this industrial and commercial age are not conducive to idealistic architectural expressions, especially in those towers that have been constructed to house a clock or a water tank, to serve as an observatory or merely to attain great height. Such objectives alone cannot inspire great architectural designs. It is, then, in the designing of a tower or campanile that is non-commercial in its association that architectural greatness can be attained. In addition to the original purpose and significance of the campanile, new functions are imposed upon it by the constantly increasing number of new conditions that exercise an inescapable influence upon contemporary civilization.

The tonal message of the bells, as it emanates from their elevated position in the campanile, overspreads the vicinage, be it urban or countryside. The significance and appeal of the annunciation has been realized and accepted from the beginning, but its interpretation in terms of architectural design, aside from merely housing the chime, has but rarely been accompanied with success as measured by contemporary bases of appraisal which must, of necessity, change with civilization's concepts.

Even though campanili were built to a considerable height during the Renaissance period, evidently their designers considered them as a combination of distinct one-story units. This
was natural because the elements of architectural design previously developed were based on the conception of one-story buildings. Therefore, towers, after Giotto, usually have been designed as an assemblage of separate units each one imposed upon another. The appearance produced has been that of a weak, storm-shattered mast lashed together with a multiplicity of
horizontal binding withes. In Giotto’s Campanile these horizontal features were the continuing of the classic entablature element and its repetition—the echo of the classic accusation of a number of stories.

Sternfeld’s campanile for the Slovak Girls’ Academy, Danville, Pa., is a splendid example of a contemporary concept of the multi-story structure as an integrated unit or mass. In this campanile, Sternfeld has again demonstrated his mastery of architectural designing by incorporating those elements that interpret architecturally the dominating spiritual and mystical symbolism inherent in ecclesiastical campanili. It is the exposition of an environment which is intended to develop scholarship and aesthetic appreciation, and, also, to evoke a religious sentiment significant of the Catholic faith.

The Campanile.—Four massive buttresses of diminishing proportions, terminating at the base of the great quadruple cross that surmounts the structure, are united by sheer, vertical walls. In each of these walls are narrow, twin panels of pierced symbolical tracery that extend throughout their height. In the dark hours the faint illumination through the tracery...
unconsciously leads the eye up to the illumination climax—the cross. Thus by day and by night the cross is the guide and symbol for man's aspirations and conduct and is an ever-present mile-post on the air-way that traverses the countryside. It is symbolic of the everlasting grace and beauty of a cultured scholarship attained in aesthetic environments under appropriate tutelage; of the compassion and peace of the ever-welcoming sanctuary for all sorts and conditions of men; of the dignity, majesty, and dominion of the immutable church, whose cross is the beacon-light for all who abide within its shadow or travel by day or by night; the music of its carillon overspreads and pervades the countryside with its appeal of harmonious sounds and reminder of duties to be performed.

Sternfeld's campanile, with its dominant note of aspiration, discards the restrictions of horizontal classic chaining and brings together the vertical elements of its mounting buttresses and flanking façades—a great, aspiring expression in stone, whose basic lines of composition are inspirationally carried upward, soaring toward a quadrifrons cross—a modern paean of structural efficiency and proportional concord.

*Looking along the loggia into the corridor leading to the class rooms*

*The south side of main reception room, looking into the waiting room*

*Ceiling of the main reception room under the tower*
At left, the tower from the east. On the facing page, a detail of a stair tower with main tower behind and loggia at left.
Night view of main entrance
The roads of Timгад run straight and clean, bearing still the ruts of long-perished chariot wheels

Timгад, City of Trajan

By Lucy Embury

Photographs by the French Line and the author

NOTHING ephemeral about old man Rome's way of building—we all know that. Still, when Timгад strikes the eye, platitude suddenly becomes living truth—a city sufficiently impressive, though only about a third of it is yet above earth after fifty years of excavating. Pompeii, which I saw later, seemed by comparison a toy town. Timгад's founding was a performance in its day unique—not a gradual growth like most older cities but planned and executed in its entirety at the behest of Trajan, who wanted to keep his restless legions busy and bestow upon them too some merited reward. Now that city-planning, town-building has become a popular pastime, a pious pilgrimage is much recommended for light-minded "Sunnysiders." For durability even the plumbing of Roman North Africa puts our own to shame!

Saved by its inaccessible situation perhaps, perhaps by its extraordinary solidity, Timгад at any rate escaped the total demolition meted out to sister cities and affords for the student a perfect example of the Roman town of the period. With an approximate area of 150 acres there are many things to be seen. Its dividing roads run straight and clean, east to west, south and north—strange and not a little thrilling to feel beneath one's feet the ruts of chariot-wheels! Appropriately, the arch of Trajan dominates the scene. We walked beneath it, stood beside it, felt the truth of Major Bodley's remark—"certainly the most imposing monument of Algeria." Fitted against a mound's flank, the semicircular theatre, with over 3,500 seating capacity, is a fascinating place. One perches on the smooth, curved stone, staring down at the colonnaded stalls, expecting almost at any moment that toga-ed figures may step out upon the stage, that the vast half-moon will fill again with life and color.

Timгад believed in cleanliness, as the re-
Columns rise everywhere, bearing witness to the magnitude of the Third Legion's labor and achievement.
The Arch of Trajan dominates the dead city and justifies its claim as "the most imposing monument of Algeria"
Rich recoveries from the old city have been gathered about and within the small museum; tessellated floors are mounted on the museum walls for the more convenient study of their patterns.
East of Timgad lies Tebessa, known to the Romans as Thocolte, its basilica (probably fourth century) noteworthy among early Christian monuments of North Africa.

Remains of some thirteen or more public baths bear witness. Oh, yes, these chaps liked their luxuries, had their hot tubs and fresh fish! Very trick indoor reservoirs or aquariums are revealed in some of the now roofless villas. On the pavements of the forum little gaming tables mock the passer-by, as does the still legible inscription carved by some philosophizing soldier whose humor has survived some nineteen hundred years or so: venari lavari ludere ridere hoc est vita ("To hunt, to bathe, to gamble, to laugh, this is life").

Solemnity resides in the Temple of Jupiter where two façade columns stand staunch—a sheer fifty feet each by four and a half across. The finest of the mosaics recovered from the city are mounted upon the near-by museum walls where their patterns and colors may be clearly seen. Interesting to compare these with the tessellated work, also remarkably fine, found at Sousse.

For a long while we wandered through Timgad, the ancient Thamugadi whose streets once hummed with hurrying men. We wandered and wondered, marvelling at the indomitable will which made so strong a city rise more than a hundred miles from the Mediterranean shore, 3000 feet above the sea, on a vast open slope in the heart of the Aurès.

At the risk of sentimentalism, the impression as set down in my notebook that day is here quoted—an impression not apt to recur in a lifetime:

"Timgad—a city whose rose and gray ruins are slowly again emerging from the sediment of centuries, thrusting valiant crumbled columns upward in the air after close to two thousand years of earth-bound oblivion. More a miracle it seems than any act of man, this resurgence of a buried civilization when one stands solitary amid the silent sites of Roman homes enlivened now only by the faint, sweet piping of desert birds and the flitting images of clouds which drift above the plain to curl and cling about encircling mountain tops. Pickers of choice places, these bygone builders—did they, one wonders, ever cease their stern work, soft play, and rest on sandalled feet staring, from the city's eminence, out upon the valley whose very soil is drenched in unimaginable hues, blends of a purple-mauve, emerald, coral, or ochre-dashed palette, beautiful past belief even through the chill and deadening rainfall (almost snowfall) of a February day?"

Veritably, not Timgad alone, nor Carthage, but all North Africa is more than an idler's playground; it is for all who love the roots of things, "a challenge, and a heritage."
Nestling against the flank of a natural mound the semicircular theatre offers a magnificent view of the city, in case the play should fail to interest.

The theatre was built about 150 A.D. with a seating capacity of 3500.
PADOUK (Pterocarpus), also known as "paoudouk, vermilion, and East Indian mahogany, is imported from Burmah, the Andaman Isles, and the West Coast of Africa. The wood is very dense and hard, straight grained, and of a fairly open-pored or coarse texture. In color it ranges from crimson or cherry-red to various shades of brown. In figure it is found stripy and mottled. The chief attribute of padouk is its striking vivid coloring. It is unfortunate that the wood has a tendency to change color with continued exposure to air and sun. Its natural lustre also dims with exposure, and the wood consequently loses much of its charm.

PALISANDRE (Dalbergia) is not a new wood at all, but is actually the European (French and German) name for rosewood. The rosewood most commonly used for fine cabinet work comes from either the East Indies or from Brazil. In the former case the wood is generally a dark purple color, and when sawn on the quarter produces a striped effect. In the case of Brazilian rosewood, the wood is generally of a more brownish hue, somewhat lighter in color than the East Indian wood, but wide variation is the rule. Of late, Honduras rosewood has become quite plentiful on the market and furnishes some very pretty wood. Rosewood lends itself to some striking treatments, but unfortunately is given to checking on account of its density.

PRIMAVERA (Tabebuia) is, strictly speaking, not a new wood, having been offered on the market since 1900 under the sobriquet of "white mahogany," but in the past few years it has attained a widespread popularity and is the subject of many inquiries. Primavera is the product of a tree which grows only in Mexico and Guatemala, where it is accounted one of the most beautiful trees to be found. In color the wood ranges from a pale yellow or cream color to a light yellowish brown. It is often highly figured in a striped or broken mottle effect. Its physical characteristics and its figure are in many ways similar to those of genuine mahogany and African mahogany. Primavera is quite light in weight, but fairly strong and firm. It works easily and finishes well. At one time it was almost exclusively used where a light-colored animated wood was required, but recently it has been rivaled by avodire, which has the advantage of being more uniform in color and more sound.

ENGLISH SYCAMORE (see English Harewood).

TAMO WOOD (Fraxinus mandshurica), known also as Japanese ash and Manchurian ash, is a native of both China and Japan. The tamo tree is a bona-fide member of the true ash family, and as such bears close resemblance to our American ash, as well as to wood of the familiar English and Hungarian ash trees. Its structure is dense, and at the same time the wood is very open-pored. Its wood is very heavy and tough, and is marked by the same porous veinings, resulting from the annual rings of growth, which mark the entire ash group. In color the wood ranges from a very light tan or cream color to a rich brown or a dark gray, with many intermediate
shades. In figure it presents as great a variation as in color. From a delicate narrow "pencil-stripe" figure, lacy and gossamer, it runs the gamut of every conceivable twist and curl, with fantastic whorls and eccentric gnarls, all depending on the manner of its growth and the fashion in which it is cut—whether sliced on the quarter to produce the straight stripe, or cut on the half-round, a variation of the rotary cutting method which produces the fantastic figure described above. Often the wood has a little roily curl or blister which is termed "peanutshell figure." Tamo requires careful handling in the veneering process, due to the porous nature of the veinings, which easily permits the seepage of glue, and consequent discolorations. It should be noted that well-figured tamo brings a high price on the market and entails a high percentage of waste in manufacture into panels. The striking and beautiful effects which the hands of a skilled artisan are able to produce with this wood fully repay the expense involved.

TIGER WOOD (Lotaea klaineana), also known as African walnut, Congowood, or tanoa wood, is a native of the West Coast of Africa. It is not related to the walnut (Juglans) family, nor does it bear any resemblance to the various species of walnut. Instead it is a member of the Meliaceae family, to which mahogany also belongs, and is very similar to African mahogany in its physical characteristics, texture, and figure. In color it is a light brown with a golden tinge. Its most characteristic figure is a distinct, broad, and regular stripe, shading from the brown to the gold or pale yellow. Tiger wood is procurable very sound, uniform in color and figure, and in excellent lengths and widths.

YUBA (Eucalyptus obliqua), also known as Tasmanian oak and fiddleback oak, is actually no more an oak than Brazilian walnut is a walnut. It is in reality a member of the Australian eucalyptus family, and as such suffers from deposits of gum and resin which are the curse of the wood and which offset its many other excellent qualities. In color it ranges from cream to a light brown, and is generally marked by a very fine fiddleback figure which traverses the wood from end to end, when it is cut on the quarter. This fiddleback figure is sometimes supplemented by a broken stripe or mottle figure which is very pretty. Yuba is moderately heavy and dense, of wavy grain and rather coarse or open-pored texture. It finishes well, and, when gum deposits and streaks can be eliminated, makes a charming light-colored wood, suitable for wall panelling or furniture. It stains excellently.

ZEBRA WOOD, also known as zingana and zebrawo, is the product of a gigantic tree indigenous to West Africa, and is thought to be a member either of the genus Macrolobium or the Leguminosae family. It is not to be confused with the long-familiar zebra wood of Guiana or the Andaman Islands near India, to which it is in no way related. When the wood is cut or sawn on the quarter the result is a series of parallel stripes, dark brown or black, spaced on a light brown or tan colored background, thus giving rise to its name. The wood is fairly hard and dense, but works well. Its principal detriment is the frequent presence of gum deposits, which must be eliminated before the wood can be used for fine cabinet work. It is also frequently disfigured by numerous wind breaks, which render it incapable of finishing well. In Europe, and particularly Germany, zebra wood has been extensively used for furniture and for panelling in the modernistic style. It lends itself to striking and even fantastic effects, and is particularly effective employed as a border to set off other woods and in marquetry work. The wood is procurable in excellent dimensions and with a wide variety of figure and markings.

Before closing these notes on these newer woods, a few words should be set down about some of the

Note: All of the illustrations in this article show the wood at actual size; in each case, excepting of course, the bars shown on the following page, the grain runs with the longer dimension of the rectangle, though in some cases the figure may indicate otherwise.
burled woods which are apparently coming into ever-increasing favor. A burl (or burr, as the English have it) is a cancerous growth on the side of a tree, which clings to the tree like a huge wart. How these burls are formed is still the subject of much speculation, but the most commonly accepted theory is that they are the result of some form of injury or lesion inflicted by man or animals on the growing tree. The wood of a burl is generally very highly figured, the grain often running in circles or other curvilinear forms, in a very involved fashion. It is interwoven with aborted buds, similar to bird’s-eyes, swirls, gnarls, infiltrations of coloring matter, and many other features which make of burled wood a complex and often strangely beautiful work. Unfortunately, burls generally come in small sizes, with all kinds of holes and other defects.

AMBOYNA BURL (*Pterocarpus macrocarpus*), a brown wood, flecked with red and yellow, from the East Indies. It has little gnars and knots not unlike those of thuya burl. Due to its color and texture, it bears a certain resemblance to sheets of cork. It is available in squares of eighteen inches or two feet.

CARPATHIAN ELM BURL (*Ulmus comutes*) is a tan or brownish colored wood, indigenous to almost all parts of Europe, where it is known as the common or English elm. It is a light brown in color, fine textured, hard, tough, and strong. It has a prominent series of veinings which wind a circuitous path through the wood in a delicate fashion. The veneer is procurable in sheets three feet long, but is very defective, requiring much patching.

MYRTLE BURL (*Umbellularia californica*) is a native of California and Oregon. The wood is fairly heavy, hard, firm, and fine textured. It is ordinarily a rich yellowish brown in color, but displays the most eccentric variations both in color and in figure. Myrtle burl veneer is procurable in sheets as large as six feet by three feet, and is therefore better suited for wall panelling than most other burls.
The proposed post office and court house at Binghamton, N. Y. Conrad and Cummings, associated architects; Lorimer Rich, consulting architect.

The Canal Street approach to the West Side Highway, New York City, lifting vehicular traffic off the streets along the Hudson. Sloan & Robertson, architects.

The proposed West 135th Street Building of the Y. M. C. A., to cost a million dollars, scheduled for completion on November 1, next. James C. Mckenzie, Jr., architect.

The recently completed Joslyn Memorial, built of Eto-wah Pink marble at Omaha, Neb. John and Alan Mcdonald, architects.

The main portico of a model representing the United States Supreme Court Building now under construction at Washington, to cost more than eight million dollars. Cass Gilbert, architect.

Left aisle in the new choir of Washington Cathedral, recently completed. Frohman, Robb & Little, architects.
The proposed post office for Wheaton, Ill., now under construction, for which the federal appropriation is $1,025,000. Reboli & Wentworth, architects

Approved design for the Lillie M. Coit Memorial Tower, Telegraph Hill, San Francisco. Arthur Brown, Jr., architect

The recently completed Shakespeare Memorial Theatre, Stratford-on-Avon, won by Miss Elizabeth Scott in competition. Scott, Chesterton & Shepherd, architects

The recently unveiled Tomb of the Unknown Soldier, Arlington, Va.—a solid block of Colorado Yule marble. Lormer Rich, architect; Thomas H. Jones, sculptor

Proposed 50,000-watt radio transmitter station of WCAU, Delaware County, Pa. Gabriel Roth, architect

Photographs

There is no organization whose duty it is to put it into effect. It is a plan presented to the people of New York to use as they may have some share of that original vision and the will to make it a reality. While the results of this long and skilful research are quite specific in relation to one community, the reasoning and the fundamental principles indicated are those which must govern the future development of any large community. In this respect the record will in all probability be a source book for several generations.


Dr. Granger gives us in convenient form the oldest manuscript of Vitruvius, probably of the eighth century. The Latin and the English are on facing pages, enabling easy comparison. As Dr. Granger says, the Latin closely resembles the workshop and the street. In his translation he has tried to retain the vividness and accuracy of the original without too much striving for smoothness of rendering, in the hope that the reader may discern the genial figure himself through his utterances.


This portfolio is a companion volume to "English Wrought Ironwork of the Late 17th and Early 18th Centuries" by the same authors, and is based on the authors' conviction that one who would acquire a real feeling for English ironwork must have, in addition to photographic illustrations, these full-size and small-scale measured drawings of typical examples.

The walls are of brick lightly washed in yellow, throwing into relief the white portico, black ironwork, and green blinds. The flagged drive, box-bordered, leads straight from the road to the entrance.

The Architectural League of New York this year awarded Honorable Mention to Phil Shutze, of Hentz, Adler & Shutze, for Mrs. Goodrum’s house.

**House of Mrs. James Jefferson Goodrum**

**Atlanta, Ga.**

**Hentz, Adler & Shutze, Architects**

**Porter & Porter, Decorators**
The rear façade with its two-story bays and its wide parapet is clearly adapted from the Regency. The long shallow floor plan takes advantage of the breezes during the summer months.
The living-room walls are delphinium blue; the rug a Savonnerie in rust with the central medallion in white, blue, rose, lilac, and yellow; damask draperies are yellow.
Red, white, and old gilt are combined in the entrance hall. The floor is of wide walnut boards; the rugs are old needlepoint in black with the floral pattern in faint greens, pinks, and white.
In the dining-room Allyn Cox has painted a sequence of murals in a manner that invests his Chinese figures with amazing reality. The Chippendale chairs are upholstered in white leather. An unusual cornice is painted in blending colors with a frieze of Ivy in its own green
On the cross axis of the living-room, Mrs. Goodrum's furniture is extraordinarily good. While much of it is English, a good deal of it is American, among which are a Savery low-boy and a splendid Chippendale chair from a remote village in Georgia.
Looking from the living-room into the hall and the dining-room beyond—typical of the vistas to be had in an open plan such as this. Although many strong colors have been used, they have been blended with such skill that there is no sense of over-brilliance.

On the main stairway the balustrade is of iron with a walnut handrail done in an intricate pattern of Chinese Chippendale lacquered a brilliant Chinese red. The stair carpet is made from a set of hangings in old French needlepoint, very finely wrought in soft faded colors.
SPANDREL waterproofing is really a protection for the building necessitated by the thinness of the wall at the spandrel beam. Its duty is to escort to the outside any water which may inadvertently trickle into the wall. There are two fabrics used in spandrel work. The first is a fully saturated woven fabric. It is really a closely woven mesh and must not be confused with the fully sealed type of material. It is laid on a bed of mastic which is applied to the spandrel surface. Then a layer of mastic is put over it and the mass is allowed to set. The fabric is the reinforcing element and might be compared to the part played by steel in reinforced concrete.

An inspector once objected to a waterproofing contractor's putting down a saturated fabric with little or no bed for it, whereupon the latter retorted: "The fabric in itself is waterproof." The statement was challenged. The contractor seized the roll of the fabric and cut off a good-sized piece, folded it up in a box shape, held it in front of him, and ordered his foreman to fill it with water. The foreman did as ordered. The water spouted enthusiastically in all directions, and soaked the contractor convincingly. The latter gave up his attempt to prove it waterproof, and substituted a fully sealed material. However, reputable waterproofers will not neglect to bed the fabric properly, realizing that the asphalt is the waterproof element and the fabric is only a reinforcing agent.

The second type of fabric used is fully sealed (i.e., as a rule it consists of a centre of woven fabric flanked on either side by a veneer of asphalt or bituminous material) and is waterproof in itself. It looks in similar to a roofing paper, though generally differing in composition. It may also be obtained in varieties which are resistant to acids and alkalies. It requires little bed, in comparison to the open type, if the surface to which it is applied is smooth. It is the most popular type in general use because almost immediately after it is applied the brickwork may be laid on it.

The preparation for the installation of the spandrel waterproofing is simple but important. If the wire mesh of the floor arch turns over the spandrel beam (as it generally does in modern concrete arch work), it should be flattened down on the beam and the ends well turned under the beam flanges to avoid piercing the fabric with any sharp points. The web of the beam should be filled in flush with the edge of the wire mesh bent around the flanges. The superintendent should see that the wires of this mesh where crossing the top of the beam are covered with a bed of mortar having a slight outward pitch. This work should be done a story or so above the bricklayers, so the mortar may have a chance to dry.

After the above mentioned work is completed, the general procedure is as follows. Rolls of the fabric are brought to the floor and left in readiness. When the bricklayers arrive a half story below, the fabric is unrolled in long strips on the floor. When the brickwork arrives at the lintel course one edge of the fabric is placed on the top of the brickwork about a half inch from the outside face of the outer course. The fabric is fitted back against the filled-in web of the spandrel beam (which has been well buttered with mastic), and what is now the top edge of the fabric turned back on the floor. It must extend six inches beyond what will be the inside wall line, so that there will be enough material to turn up on the inside of the wall. The bricklayers, having reached the lintel course, are sometimes shifted to another wall, to allow the waterproofers time in which to apply their material. Generally they wait on the scaffold for the waterproofers to finish their work. If they do the latter it is readily seen why a fully sealed fabric which is laid on a bed of mastic only is preferred to a fabric which is laid in a bed of mastic and then must have mastic trowelled over it. The bricklayers are bound, in the latter case, to get mastic on their hands and trowels, as well as on the face of the brick. Being forced to keep up with their line, the brick-
layers will not bother to clean off the bricks, and the result will be spots and stains on the brick façade. The superintendent should see that the horizontal laps are at least four inches and that in their hurry the workmen have not forgotten to cement them well together with mastic.

In modern steel skeleton construction, generally a twelve-inch wall is used. As the columns are, for example, 12 inches from flange to flange, and building codes often require 8 inches of masonry on the exterior of columns, it will at once be seen that the inside of the exterior wall will run into the column. Hence the spandrel waterproofing cannot go by the column without cutting or folding. In most cases it is cut and an additional piece put in to go around the column. These pieces should be well cemented to the main piece with mastic, and special attention paid to the corners to see that they are well closed. On façade columns the fabric should be turned up at least 6 inches on three sides of the column, and on corner columns it should be turned up entirely around the column. Then, too, all corners should be reinforced by doubling the material.

When the walls have been carried up a story above the spandrel waterproofing, or at the end of each day, the mortar should be cleaned off the fabric that has been turned in on the floor preparatory to its being turned up and sealed to the dampproofing. If this is not done and the mortar sets, it will later be necessary to remove it with a pick with consequent damage to the fabric. If the spandrel beam is of exceptional depth, the waterproofing is sometimes done in two courses. This will necessitate the superintendent's keeping a sharp lookout, not only for the points above mentioned, but also that the lower course of fabric has its top edge well bonded by mastic to the steel.
The doors, in a salon for the design of women's gowns, depict a history of costume design. The following periods are shown, reading from left to right from the top: Eve, Chaldean, Egyptian, Grecian, Roman, Early Crusade, Moyen Age, Elizabethan, Cromwellian, Louis XVI, American Colonial, Empire, 1850, 1900, 1925, and the pajamas of 1931. Each panel is 9 by 15 inches. Details of some of these figures are shown overleaf.
Sunday, May 1.—Robert D. Kohn thinks it is time for a nation-wide appeal to save America's historic monuments from destruction. At the moment the danger spot is Charleston, S. C. Mr. Kohn has appointed a committee of the Institute to work with the local Committee for the Safeguarding of Charleston Architecture. As contrasted with the difficulty of raising a little money to protect these architectural treasures, Mr. Kohn bewails the fact that "Over a hundred thousand dollars was paid recently for a picture now hanging in one of our greatest museums, an entirely ephemeral art of a pet artist recently deceased, which picture, I dare to predict, will not be looked at by any discriminating person twenty years hence. The price paid by the museum for this one picture is one that would conserve for all time two or three Charleston houses and their gardens, if we adopt some such scheme as that of the Monuments Historiques of France.

Monday, May 2.—Lunched with H. Van B. Magonigle and Frederick Moore, talking over all the interesting details that arose in connection with the design and execution of our Embassy in Tokyo, to which Magonigle has given such an unmistakable style that the group of buildings, while not Japanese, could be at home only in Japan.

Tuesday, May 3.—Polls which attempt to establish the "ten best buildings in the world" are usually very near futility in result, and the one recently held by The Federal Architect seems rather more futile than usual. Fifty architects of reputation and rather wide geographical distribution were asked to name ten buildings whose architectural design was felt to be most satisfactory and appealing to them, with the condition that one of the ten should be a building designed by himself. Naturally, very little could be expected from that sort of a poll. It may be, but probably not, worth adding that there were twenty-six lists received, naming thirty-five buildings. The first three were the Lincoln Memorial, seventeen votes; the Empire State Building, fourteen votes; Nebraska State Capitol, thirteen.

Wednesday, May 4.—William K. Hutton tells me that I was wrong in saying that Diego Rivera speaks no English. He does speak it, but I imagine not by preference, speaking by choice in Spanish, Russian, and French, the latter best of all. Mrs. Rivera is likewise at home in all these languages and in German as well. Hutton's summing up of Rivera's philosophy of painting, for Americans, is that we must derive from something, we should go back to primitive American Indian and Mexican art, rather than to the primitive arts of other continents.

Thursday, May 5.—Eugene Savage was telling me of the marble house he has built for himself up at Ossining. Savage had the unusual opportunity of being able to buy for a song a school building of seventy-five to one hundred years ago which had been built of marble. Instead of being sawn to a perfect plane surface, as marble is today, this was faced by hand with a very effective texture of some irregularity which, with the patina gained by its age, makes a wall of unusual character.

Friday, May 6.—Leon V. Solon had a number of architects, painters, and sculptors at his apartment overlooking Central Park to meet Comte Serge Pleurcy—an interesting small gathering in which one found such contrasting personalities as Eliel Saarinen and Gene Tunney, Ernest Peixotto and William Van Alen, and Ely Jacques Kahn, who tells me that he is designing a very large brewery.

Saturday, May 7.—Eliel Saarinen in from Cranbrook with part of the manuscript of a book he is writing. If it is possible to base a judgment on a few preliminary chapters, I should say that we are to have here another contribution to architectural literature as profound as Geoffrey Scott's The Architecture of Humanism and Kenneth W. Thompson's A Background to Architecture.

Monday, May 9.—In the discussion the other night at the New York Chapter meeting, when the status and functions of the architect were being examined, Arthur Holden made the point that when the architect realizes that he should be something more than a wailer of pencil and T-square, it will be better for the profession and better for the country. Fundamentally the architect is a professional adviser. It will probably be increasingly the case that this advice will be rendered on many facets of the problem of securing for the layman an economic, stable, and beautiful structure fitted to his needs; the T-square and pencil may frequently remain unused and unneeded.

Wednesday, May 11.—James Layng Mills was telling me today of some of the interesting paths through which his researches have led him recently in seeking documents relating to Federal Hall. Mr. Mills was working with Joseph H. Freedlander in rebuilding a full-size replica of the famous building that was our first seat of government in New York City. After considerable search an engraving was found in a New England magazine which seemed to be a carefully drawn main facade, including the cupola. The engraver, however, was a man whose work architecturally was certainly not of the highest order, as indicated by his other engravings. It was reasoned, therefore, that he had something definite to work from in making this plate of Federal Hall. Mills's opinion, which is probably as good as any one's, and which is substantiated by a number of other distinctly related facts, is that Charles Bulfinch visited New York and measured Federal Hall accurately. On his return he may have allowed the Boston engraver to use it for his illustration. Having what seemed to be a logical representation of the facade, the question immediately arose as to the exact scale. It would have been possible to approximate it by the size of windows, steps, etc., but Mills succeeded in having dug out for him, in the New York Hall of Records, a survey which showed quite accurately the size of the building in outline plan and its exact location on Wall Street. This outline plan was not a mere rectangle, but showed the offsets and minor variations. These agreed to the inch with the magazine illustration, supposedly by Bulfinch. The result is that the replica in Bryant Park, New York City, comes very near being a facsimile of L'Enfant's building excepting in material.

Thursday, May 12.—I was under the impression that the era of faked age and faked handicraft in architecture had about come to an end. Not so, for a newspaper article copyrighted by the Architects' Small House Service Bureau says:

"If we want to make the outside walls look like the old walls of half-timber, we have to nail thin boards onto the sheathing to imitate the heavy framing members and then plaster stucco between them to give the appearance of mud filling.

"Right at this point most houses in this style fall down. The boards which are used to imitate the big framing members are usually straight and smooth as they come from the planing mill. They look like what they are—boards nailed to the outside. As a result, they are not structurally useful, and in ninety-nine cases out of a hundred are so arranged by the builders as to have no structural significance at all.

The Editor's Diary

Thursday, May 5.—"..."

Tuesday, May 3.—"..."

Monday, May 9.—"..."
"A few clever architects have reproduced the effect of these old half-timber buildings by doctoring these boards. In the first place, they have purposely had them sawn into small trefoils so that the bent shape of the trunk would be visible along the edge of the board. They have had the carpenter rough up the surface with an adz.

"After this they have subjected the surface to a sand blast, which eats away the soft part of the wood as will the weather through hundreds of years. "To reproduce the appearance of a frame fastened with wooden pins, they have had the carpenter bore holes at certain places near the joints and refilled them with dowels of wood." All of which is about the most discouraging piece of printed matter bearing on architecture that I have seen for many a long day.

Friday, May 13.—It may be recalled that William H. Ham, writing on "Pre-fabrication and the Small House," laid down a fundamental condition that "no design which is ever used in creating these homes which has not had a precedent set from the standpoint of art and structure for the last one hundred years in America." Unquestionably there were those who thought him a reactionary. If so, here is another one, Robert R. Meikle, of Monahan & Meikle, architects, of Pawtucket.

"The so-called modernistic school of architecture will be short-lived. It is as definitely 'dated' as the Victorian school, and probably won't last as long..."

"The Colonial type has withstood the test of time. A century hence, New Englanders will take just as much pride in Colonial houses as they do today.

Despite the present modernistic vogue, the house with characteristic Colonial lines and detail is more marketable than any other type of dwelling. It will continue to be saleable because it embodies a style which is permanent; it is not the fad of the moment.

Nevertheless, it seems to be inevitable that we should forget the letter of past styles while holding fast to such fundamentals as they possess which are still applicable to our own needs. The moment we begin copying the letter rather than the spirit we are starting down the hill of a decadence. The builders of 1850 built houses that were not like those of 1780—they were better. If we cannot build better houses, rather than copy the lines and details of those built a century or more ago, we should not be practicing architecture. Perhaps we should be in the antique business.

Saturday, May 14.—The Portland Cement Association is afraid that my recent articles on sugar in lime mortars may be misunderstood. The addition of sugar to a cement lime mortar in the customary measures should not be attempted. Sugar not only fails to help Portland cement mortar and cement lime mortars, but it is a positive detrimen.

Monday, May 16.—They are talking of securing interior wall colors in the Chicago Fair by means of electric lighting, rather than by paint or other covering. The scheme, of course, is not entirely new, but its use on such a scale brings some new problems. The matter is simplified, of course, by the fact that the exposition buildings are to have no daylight inside and no windows.

Tuesday, May 17.—Lorado Taft has a rather low opinion of the American people, in so far as our art appreciation goes. He is quoted as saying to the Eastern States Association of Professional Schools for Teachers: "As a nation we have little accumulative wisdom and slight appreciation of the gifts of the ages. Our life is casual without background. Our homes seem to be on casters like our furniture, even moving, ever changing. Our recreations are hectic at forty or fifty miles an hour; our music is jazz; our drama the movies; our literature the strain daily. In the other arts we are practically immune."

Wednesday, May 18.—It is astonishing how many words are wasted these days. For example, quoting from the ponderous eight principles adopted by the Committee on Business Reports, Statistical and Trade Information of the National Conference on Construction (which title in itself seems rather wordy):

1. Statistics are merely aids to individual judgment; they are not substitutes for judgment.

2. Statistics are useful only if really significant.

3. Additional statistics are required only when existing information is inadequate.

4. The cost of collecting statistics should be commensurate with their value.

5. Statistics growing out of records kept in the normal course of business are usually those which are most easily collected and most likely to be of use.

6. Statistics relative to construction should, in so far as practicable, be developed and maintained on a uniform basis.

7. Statistics relative to construction must generally be developed and interpreted locally.

8. Statistics relative to construction must generally be maintained continuously.

Which leaves us just about where we were before.

Friday, May 20.—Seeing in the newspapers that Calvin Coolidge was about to put a six-room addition to the old house at Plymouth, Vt., I wrote him asking for the name of his architect, so that we might publish a photograph of so much of it as a matter of news. Mr. Coolidge writes me:

"The addition to my house is so modest that it did not require the work of an architect beyond making some floor plans for me..."

Right here, it seems to me, is one of the fundamental needs of the architectural profession—to have people realize that just as we go to a doctor for an infected finger or to have a leg amputated, so too, we should regard the architect as our professional adviser in matters of building, whether it be putting on a new sun porch or building a whole new structure. Once an architect has turned over the keys of the building to the owner, he very seldom comes into the picture again. The public—and possibly the architect himself to a large extent—feels that minor matters of alterations, redecorating, repairs, and the like, are outside the architect's province. This is not the case in England. It should not be the case here. The architect himself could undoubtedly do much toward restoring a proper balance—by informing every client that his interest in the building continues after its completion, and that his advice and assistance in minor matters will always be available at a correspondingly minor fee.

Saturday, May 21.—It is a difficult matter for the practicing architect of today to keep up with the rapid progress of new materials, methods, accessories. They make their appearance on the market rather more rapidly than the mind of any one man can compass them. I was talking with a man at lunch a few days ago, however, who pointed out particularly the blindness of architects to the possibilities of automatic protection of buildings. The automatic sprinkler is well established, watchman's alarm systems are in wide use, but the profession generally does not seem to have grasped the fact that there are organizations in existence set up for the purpose of receiving and acting upon electric messages. The extent to which this sort of protection is adapted can scarcely be pictured. A certain degree of heat will turn on a sprinkler system which thereafter continues to sprinkle. How much better if the same degree of heat sent a warning electrically to a central office whose agents would investigate the matter before much damage could be caused by either fire or water. Industrial plants are using this possibility in maintaining needed temperatures in vats, refrigeration plants, and the like. In a word, the architect's duty to the owner is not discharged until the possible ideas of such systems are employed or at least brought to the owner's attention.
FAVORITE FEATURES

IV. TILDEN, REGISTER & PEPPER

Entrance Detail of a House at Chestnut Hill, Pa., for Schofield Andrews

(See detail drawing overleaf)
Section

Main Entrance Detail

See photographic illustration overleaf
THE fifth factor, "Cooling," requires no comment from the standpoint of its importance to comfort. It is generally accepted that it is neither healthful nor practicable to maintain a temperature differential of more than 10° to 15° F.

To determine the amount of refrigeration required to maintain a temperature of 80° and a relative humidity of 50 per cent in the living-room of a typical residence against outdoor conditions of 95° F. and 60 per cent relative humidity, it is necessary to calculate the heat load from all sources. Let us assume a living-room 26 ft. by 18 ft. by 9 ft., containing 4,212 cu. ft. It has three exposed walls, the dining-room and kitchen being on the opposite side of the entrance hall, with a heat load as follows:

Cubage, 4200.
Infiltration, half air change per hour.
Air conditions:
Outside, 95°, 60 per cent rel. hum.
Inside, 80°, 50 per cent rel. hum.

Heat load for cooling:

<table>
<thead>
<tr>
<th>Component</th>
<th>Cubage (cu. ft.)</th>
<th>Air Change per Hour</th>
<th>Temperature (°C)</th>
<th>Relative Humidity</th>
<th>Heat Load (Btu/h)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Walls, outside</td>
<td>516</td>
<td>115</td>
<td>15</td>
<td>894</td>
<td></td>
</tr>
<tr>
<td>Walls, inside</td>
<td>192</td>
<td>110</td>
<td>10</td>
<td>212</td>
<td></td>
</tr>
<tr>
<td>Floor</td>
<td>686</td>
<td>220</td>
<td>10</td>
<td>982</td>
<td></td>
</tr>
<tr>
<td>Ceiling</td>
<td>468</td>
<td>220</td>
<td>10</td>
<td>475</td>
<td></td>
</tr>
<tr>
<td>Doors</td>
<td>42</td>
<td>113</td>
<td>15</td>
<td>2022</td>
<td></td>
</tr>
<tr>
<td>Glass</td>
<td>119</td>
<td>113</td>
<td>15</td>
<td>2022</td>
<td></td>
</tr>
<tr>
<td>Sun effect</td>
<td>None</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Electrical</td>
<td>2400</td>
<td>13.98</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dehumidification</td>
<td>2 X 1000 cu. ft.</td>
<td>800</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

The calculation shows a total heat load of 10,880 B.t.u. per hour with eight persons in the room. If there is no door in the opening between the living-room and hall, there will be convection currents through that opening, with considerable loss of cooling effect. A decorative screen placed across this opening, when it is desirable to confine cooling to the living-room, would be helpful, as it would decrease the air movement even though it had no insulating value.

It is evident that an air-conditioning unit must have approximately one-ton capacity to satisfactorily cool a large living-room in a residence or the equivalent space in an office. Cooling of the entire residence would likely require five tons or more of refrigeration, and it is not probable that many such installations will be made in residences within the near future. It appears that the immediate demand is for zone cooling in residences, cooling the living-room during the day and perhaps one or two bedrooms at night. In many cases it will be possible to install the unit air conditioner in the basement of the residence, with one discharge duct to the living-room and another discharge duct to one or two bedrooms, with damper control to permit discharging the cooled air through either duct.

The sixth factor, "Dehumidification," is extremely important from the standpoint of comfort in most sections of the country where cooling is needed. A high relative humidity in summer is actually more oppressive than a high temperature with a comparatively low relative humidity.

In calculating the heat load in the living-room, allowance was made for dehumidification on the basis of the removal of excess moisture from infiltrating air as well as the moisture given off by the occupants. The total moisture to be removed was 2.3 lbs. per hour. The same amount of heat energy is released in condensing 1 lb. of water from the air as is absorbed in evaporating 1 lb. of water, or approximately 1050 B.t.u.; therefore to condense 2.3 lbs. will require 2334 B.t.u. of the capacity of the refrigerator machine for dehumidification purposes.

Dehumidification is accomplished by lowering the temperature of the air circulated sufficiently far below the dew-point to condense the required number of grains of moisture from each cubic foot of air passing through the unit. If the air conditioner circulates 300 c.f.m., or 18,000 cu. ft. per hour, it is necessary to condense 15 g.p.m. from each cubic foot of air circulated in order to remove a total of 2.3 lbs. of water per hour, and the air circulated must be cooled to a temperature which will insure the removal of that quantity of moisture. The requirement for dehumidification is that the volume of air circulated by the unit conditioner be in balance with the refrigerating capacity of the unit.

The unit conditioner handling a large volume of air and cooling the air circulated only 10° F. would not dehumidify to any great extent as the air would be cooled little if any below the dew-point.

Let us now summarize briefly the requirements to be met on all six of the factors enumerated to properly condition the air in this typical residence of 2,500 cu. ft. These requirements will serve as a yardstick by which to measure the efficiency.
of any unit air conditioner under consideration for the job:

REQUIREMENTS IN RESIDENCE:

25,000 CU. FT.

1. Air Motion: Constant forced circulation, with minimum of 20 c. f. m. per person.

2. Purification: Continuous supply of not less than 20 c. f. m. per person, circulated through dense spray, or other means of removing impurities.

3. Heating: Minimum of 8,400 B. t. u. available for evaporation.

4. Humidification: Evaporation of 8 lbs. water per hour.

5. Cooling: Removal of 10,880 B. t. u. per hour for 10° to 15° F. differential in living-room.

6. Dehumidification: Removal of 2.3 lbs. water per hour.

We will now consider the application of a specific unit air conditioner for installation in this typical residence. The cross-section illustration of the unit shows the principle of operation. For air purification, the air is circulated through the spray chamber completely filled with a very dense mist, with the eliminator plates at the top of the spray chamber serving as scrubber plates for the removal of dust and other impurities. The air circulated passes downward from the fan through the finned heating core which is connected to any steam, hot-water, or vapor heating system, preheating the air before it passes into the washing chamber. Evaporation is obtained by circulating the preheated air through the warm spray water which is very finely atomized. Provision is made for regulating the capacity of the unit to suit the requirements of the space in which it is installed. Dampers are provided which permit bypassing up to one-half of the air around the spray chamber. The pressure and temperature of the spray water may be regulated to increase or decrease evaporation. A modulating valve on the heat supply to the core will permit reducing the core temperature, thereby decreasing the preheating of the air. The motor permits easy regulation of the fan speed to decrease or increase the volume of air circulated. The installer regulates all of these factors to suit the space requirements at the time the unit is installed. Thereafter the inherent regulation of the unit will maintain the relative humidity within relatively close limits. Maximum evaporation is needed in severely cold weather, and since the heating boiler operates at its maximum temperature during cold weather periods, maximum heating and maximum temperature spray water are automatically supplied to the conditioner. In mild weather when less evaporation is needed, less heat is supplied to the core and spray water is supplied at a lower temperature; therefore the evaporation is automatically reduced to the minimum by the action of the room thermostat on the heating system.

For cooling purposes a one-ton refrigerating machine is used in connection with this unit conditioner. Cold water or an anti-freeze solution is circulated through the finned core at the rate of 8 to 10 gallons per minute, the finned core being so connected to both the heating boiler and the water or brine tank on the refrigerating machine that the major part of the cooling is accomplished by circulating the air through the core.

However, the spray water is also cooled to a temperature of 35° F., hence the air is further cooled and dehumidified in the spray chamber. The combination of the finned core and the refrigerated spray water will utilize the full capacity of a one-ton refrigerating machine, with a total heat removal of 12,000 B. t. u. per hour.

The air-washing feature of this particular unit is especially desirable for summer operations. The air conditioner will successfully cool the living-room of a residence, or an office or shop, it is necessary to keep all outside doors and windows closed. Infiltration of outdoor air will be very slight with a temperature differential of only 10° to 15° and little or no wind velocity. In a tightly closed room, with several occupants, the air will soon become stuffy and foul with odors of breath and perspiration unless the air is washed or provision made for introducing a considerable volume of outdoor air. The introduction of outdoor air increases the load on the refrigerating machine to the extent of the differential being maintained between the indoor and outdoor temperatures and humidities; therefore it is an economy to recirculate and wash the air.

Air conditioning is a new industry and several of its essential factors are intangible; therefore many persons who buy air-conditioning equipment during the next year or so will do so without knowing exactly what they should have or what they should expect. This makes it extremely important that architects and engineers be thoroughly familiar with the requirements for satisfactory air conditioning in residences, offices, and small commercial establishments in order that they may protect the interests of their clients. It is also extremely important that manufacturers of air-conditioning equipment be ultra conservative in their ratings and performance claims to avoid having purchasers disappointed with the results obtained.

ARCHITECTURE

JULY, 1932
THE SIXTY-NINTH IN A SERIES OF COLLECTIONS OF PHOTOGRAPHS ILLUSTRATING VARIOUS MINOR ARCHITECTURAL DETAILS

Architecture's Portfolio of

HANGING SIGNS

Subjects of Previous Portfolios Are Listed at Left

Forthcoming Portfolios will be devoted to the following subjects: Wood Ceilings (August), Marquises (September), Wall Sheathing (October), French Stonework (November), Over-mantel Treatments (December), and Bank Screens (January). Photographs showing interesting examples under any of these headings will be welcomed by the Editor, though it should be noted that these respective issues are made up about six weeks in advance of publication date.
Buckinghamshire, England

Darcy Braddell & Humphry Deane

M. H. Westhoff

James R. Marsh

Monomonock Inn

New York State Historical Association

Visitors Welcome
New England road sign

Canterbury, England

D. D. Merrill  Putnam & Cox
Frederick L. Ackerman

A Connecticut inn

A suburban shop
A roadside tea house
A country real estate office
Edgar and Perna Cook Salomonsky

W. E. Rudge
Suburban antique shop

BRADFORD ROAD
TO THE PRESS OF W. E. RUDGE

Lakeville Golf and Country Club
MEMBERS ONLY

What Not Studio
DEVOE
Englewood, N. J.

Westchester County, N. Y., road sign

An inn in Basking Ridge, N. J.

George Fred Pelham
In the outskirts of New York

On a New York City street

On a New York City street

On a Long Island boulevard
Long Island road sign

A street sign combination

Dairy farm in New Jersey
Edwin R. Cross

Verna Cook Salmonsny

Bedford Village, N.Y.

Dating a Connecticut road
In Jones Beach State Park, Long Island
W. Earl Andrews, C. C. Combs, and Francis Cormier
Comfort Station for Women's Rest Room on Opposite Side of Building

In Jones Beach State Park, Long Island
W. Earl Andrews, C. C. Combs, and Francis Cormier
On Long Island

Incorporated Village of Kensington
SLOW DOWN TO 20 MILES

On Long Island

The Neighborhood Laundry

Modern commercial sign, New York

A Long Island tea house
Englewood, N. J.

Iron and concrete

Dwight James Baum

Jones Beach State Park, Long Island

Ben Riley's
ARROWHEAD INN
Dining Dancing

Dobbs Ferry

Surf Bathing
Also to Refreshments
And Men's Comfort
Station
A Long Island craft shop

A Long Island craft shop

Frederick L. Ackerman

In Southern California

Todhunter, Inc.

GRASSMANN
and
KREH
Civil Engineers
Surveyors

MUNSEY PARK
A Restricted Community
Distinctive Homes
Office Garden Estates, Inc.

CAPPELLO
ADORE
LUNCH ON
AFTERNOON
APRIL 18TH
DINNER

JiLY, 1932

ARCHITECTURE

Todhunter, Inc.

Logan Company, craftsmen

Phoenix, Ariz.

Long Island
A suburban shop

Ridgefield, Conn.

Utilizing a tree

Raised lettering for greater legibility
LIVABLE, MODERN HOMES HAVE HANDY TELEPHONES AT HANDY PLACES

Comfort and efficiency are two prime requisites of up-to-date homes. Telephone convenience contributes generously to both. Telephones at strategic points in important rooms save steps and minutes, simplify household management.

Architects who want to assure adequate telephone arrangements, plan carefully in advance, specify conduit for telephone wires in walls and floors. Then outlets can be located exactly where they’re wanted, to meet individual needs. All wiring is concealed and there is greater freedom from service interruptions.

Trained representatives of the local telephone company will gladly help you choose the type of telephone equipment and installation best adapted to your projects. There is no charge. Call the Business Office and ask for "Architects' and Builders' Service."
More and more frequently we are being called upon to design and erect enclosures for tennis courts, swimming pools, and other special purposes. To this work we bring the experience of thirty years in designing and building greenhouses, conservatories, and other structures of a kindred sort. The Lutton Company offers full cooperation with the architect in planning glass enclosures for any purpose, and in any location.

The LUTTON COMPANY INC
267 Kearney Avenue, Jersey City, N. J.
A superior product .... plus our facilities to quarry, finish, deliver and erect... won this marble contract.

ALL of the exterior marble work of the new portions of the Court House at Media is Georgia Marble. This work consists of the addition of a large wing at each end, a third story to the old building and a law library extending above the roof of the center portion.

It was not by mere chance that Georgia Marble was chosen for this extensive and important piece of work. The appearance, quality, and durability of the marble, the ability of the producers to quarry, finish, deliver, and erect the marble for such a large contract were considered most carefully by those responsible for the finished building.

Our operations extend beyond working the marble from our nine active quarries in Georgia. We take contracts for both interior and exterior work in any combination of marbles necessary to carry out the architect's design and color scheme.
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NEW ARMSTRONG FLOORING

In a release just made to the press the Armstrong Cork Co., of Lancaster, Pa., heralds its latest addition to the company’s line of resilient floor materials, Armstrong Rubber Tile Flooring. It is offered in twenty-one colors. It is made from pure plantation rubber and is processed to resist the effects of the sun’s ultra-violet rays. It is made in 1/4-inch and 3/4-inch gauges. With Armstrong Linoleum, Linotile, Cork Tile, Accotile (asphalt type), Armstrong Rubber Tile rounds out a complete line. Your flooring problems are solved.

FRIGIDAIRE—AIR CONDITIONING

The Frigidaire Corporation finds that the present-day discussion of air conditioning is helping to establish in the minds of most people that something can and is being done about weather discomfort. The year-round equipment used to cool and dehumidify in the hot seasons, heat and humidify in the cold periods, is finding a receptive market. Hence the full-time production now being made of Frigidaire Air Conditioners designed for homes, offices, apartments, and retail establishments. Frigidaire also announces a new combination porcelain-finished refrigerator and range for apartment-house kitchens where space is at a premium and efficiency the watchword. Detail information on either will be sent on request.

MASS TRANSPORTATION

A most interesting article entitled “Biway Promises Relief to City Transportation” comes from the Westinghouse Technical Press Service, of Pittsburgh. Send for it, if you haven’t already received a copy. Fundamentally Biway is a development of the moving sidewalk idea. It presents a workable plan for continuous, high-speed mass transportation. Looking toward the city of tomorrow, a unique illustration shows how the idea may be employed, running from one skyscraper to another, high above street level. Compared to the new Eighth Avenue New York Subway, Biway could handle 28 per cent more traffic per hour.

SALUBRA

June brought the launching of a new Period Collection of Wall Coverings by Salubra. This is in answer to the urgent demand on the part of architects for the unique features of “Salubra Quality” in patterns suitable for the “Colonial” type of American home. The new collection includes authentic reproductions of original patterns now found in European museums and private collections.

FLOODLIGHTING

A 28-page handbook on floodlighting has been received from Curtis Lighting, Inc., Jackson Boulevard, Chicago. The book has readily readable and understandable descriptive matter on the light control required for floodlight projectors and is well illustrated with photographs of actual installations of every description. Of special interest is the easy method portrayed of planning floodlighting, making possible the ready determination of wattage and units required. Drawings that show locations for mounting units and scale details are helpful features. Copies of this handbook are available on request direct to the company or through this bureau.

DUST ENGINEERING

In its recent bulletin the American Air Filter Co., Inc., of Louisville, Ky., discusses dust problems. In addition to its complete line of air-cleaning equipment, the company places at your disposal the services of its Research Department and Engineering Staff for the solving of any of your particular dust problems.

TEMPERATURE CONTROL

Bulletin No. from the Barber-Colman Co., Rockford, III., describes a new development in temperature-control equipment, involving the use of electricity. The possible applications of their equipment and systems are described comprehensively. The company invites inquiry whether it be concerning their equipment or on any question of temperature control.
TRUSCON The Most Complete Line

Clerespan TRUSSES

Plan your building with Truscon Clerespan Trusses to obtain large, unobstructed floor areas at economical cost. These efficient, electrically welded box girders permit spans of 50 feet and economize costs by eliminating columns. Investigate the utility of Clerespan Trusses. Designing data, suggestions and cost estimates on request.

TRUSCON STEEL COMPANY
YOUNGSTOWN, OHIO
Engineering and Sales Offices
in Principal Cities

clear spans up to 50 feet

with double web system

FOR FOUR GENERATIONS ... BUILDERS OF GREENHOUSES

Two of Architect R. W. Bauhan's Greenhouse Subjects

Both were designed for the R. N. Church estate at Great Neck, L. I.

The grapery was placed against the garden wall, taking a leaf from England's treatment.

The cut flower houses are joined to the garage, profiting by such a location's many advantages both in working and heating economies.

Investigation and comparison will prove to you that for production of flowers, and low up-keep, no greenhouse construction surpasses Lord and Burnham's. A statement we stand ready to prove.
Woodlawn Mansion, former home of Nellie Custis Lewis, is located 12 or so miles from Washington. It's now owned by Mrs. Oscar Underwood, widow of the former U. S. Senator.

"For the present" wrote Nellie Custis (adopted daughter of Washington)

"We are living in the little house"

That letter Nellie wrote, where can it be seen? you ask. Who was it written to? How came a plain every-day brick-maker like me to see it? What did she mean by "little house"?

Seems like I best answer your last question first. Then if any space is left will satisfy you on the others. Maybe I will anyway.


As a wedding present, Washington gave Nellie two thousand acres, parcelled from his estate of eight. To which considerable passel he added the promise of a mansion. On the heels of which, no less a personage than Dr. Thornton of Philadelphia, claimed the privilege of designing it as his wedding present.

When the first four-room portion of the right wing was finished, in moved Nellie Custis Lewis and husband. It was then that she wrote that letter about living in the little house.

"Tis said, that its many subsequent owners tinkered a good bit with this old mansion called "Woodlawn." Even so, their vandalisms didn't change that something about it (I'm no architect, just a brick-maker) what did you call it? Flavor? Atmosphere? Anyway it's a prevailing something. Unbelievably big rooms. Upstairs, three levels. And such a staircase! Truly "a flight of stairs."

Dr. Thornton doubtless specified the brick must be the Jefferson squarish header size, same as used on George Mason's nearby home "Gunston Hall."

All things point to Jefferson's having brought over from England the original square header mould. By faithfully following that mould we make both our Jefferson hand-mades and mould-mades.

The fact of the matter is, it has kind of gotten about in these parts—and others—that Mr. Jefferson was considerable of a person, who set a fairish example for a lot of us Virginians to follow.

Next time we meet, want to thrash out with you some wrong impressions that have been going the rounds about Serpentine walls, which are just another of Mr. Jefferson's contributions.

Henry Garden
Brick Maker for
Old Virginia Brick Co.
with Mr. Jefferson as a Guide.

Old Virginia Brick
Old Virginia Brick Company
Salem, Virginia
ADVERTISERS’ INDEX

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PUBLICATIONS OF MANUFACTURERS.

The August
ARCHITECTURE

Earl Reed introduces to us Edgar Miller—
designer-craftsman, who paints,
etches glass, moulds clay, makes
stained glass, carves wood and stone,
makes book illustrations. . . . A new
rising star in American decorative
art.

Two Summer Homes of Architects
Archibald Brown’s (Peabody, Wilson
& Brown) studio at Southampton;
Roger Bullard’s home at Manhasset,
Long Island.

The Drama of Building
Part II of Jeannette Griffith’s photo­
graphic studies.

Modern Housing, Occupied
Douglass Haskell took his wife abroad
to try living in Germany’s modern
housing units. How about plan, ma­
terials, flat roofs, pipe railings, rent­
als, redecorating?

The Tokyo Embassy
A building of America, in Japan, and
at home on its site, by H. Van B.
Magonigle and Antonin Raymond.

Building of Porcelain-Enamelled Steel
Outside and inside wall material . . .
prefabricated, lessening field work,
reducing costs.

Bartels on Supervision
This month, Electrical Work.

News . Working Drawings . Diary
Portfolio: Wood Ceilings
A collection of sixty photographs.

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