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THE COVER PICTURE

Rigid steel frames are shown in process of erection at the Towle High School Gymnasium at Newport, N. H. There are five of these frames having a clear span of 70' with a center depth of only 14 1/2". This structural system was selected in order to keep the roof as low as possible, without spoiling fenestration of existing auditorium and that of classroom wings already planned for future construction. Overall size of gym is 71' x 109', and this is divided by a folding partition into two basketball practice courts or physical education spaces. For varsity games, two hoistaway basketball goals fold down from ceiling, and folding bleachers provide seating for 840 spectators.

In addition to the gymnasium, two entrance lobbies with public toilets and offices for physical directors are being provided, also a new classroom to replace an existing basement classroom being converted into shower and locker rooms.

By changing hand fired coal boilers to oil firing, sufficient space was gained to include a large new boiler in existing boiler room to heat the gym. Foundations are reinforced concrete, walls are of face brick with cinder block back-up and cast stone trim, roof is steel deck with Fibreglas insulation and built-up roofing, windows are glass block and some double-hung wood sash.

This project is by the office of Lyford & Magenau, Architects and Engineers of Concord. General Contractor is Donald D. Snyder & Son, Inc., of Gardner, Mass.; heating, ventilating and plumbing, Dezero & Randall of Rutland, Vt.; electrical, Arthur T. Costigan of Concord; roofing, A. W. Therrien, and steel, Lyons Iron Works, both of Manchester.

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The President Speaks

First, we wish to thank all of you who so promptly expressed your appreciation of the NEW HAMPSHIRE ARCHITECT as a regular monthly magazine.

"My hat's off to the new NEW HAMPSHIRE ARCHITECT!" So writes one of our own New Hampshire Architects, and similar remarks have been coming to us from Architects, Contractors, and many others of our readers.

The response of advertisers has been most gratifying and it is our hope that all who obtain copies of this journal will save and use this as bibliography of those firms who serve the building industry so aptly in our state.

Our editorial program is beginning to shape up for the coming year. It is the desire on the part of our editorial department that all Architects practicing in the state will contribute in the form of important news items, articles of interest about themselves, plans and photographs of merit done by themselves or in their offices. All of which material will be given the most careful attention of the editors.

This is a new venture for the Architects here in our state and it will be most highly desirable that publishers-editors-advertisers and readers should work in the closest harmony to provide the best way for us to follow.

Gene Magenau ALSO Speaks.

The task of gathering material for Publisher Larry Moynihan to print in this aspiring Bulletin fell in the lap of Gene Magenau, by virtue of his gullible nature, convenient location in Concord and chairmanship of the Committee on Public Relations and Information.

Gene says that the boys have been letting him down, so he is beginning to wonder if you other architects can write anything by signing your name (necessary for check contracts). Practically no material has volunteered, except from President W... who forwards everything he gets from A... headquarters, which he can't think of else to do with it anyway. Most of you come through when asked for some specific but a few of you have even failed a definite assignment.

The latter type of non-cooperation, continued, will mean either that someone will have to take over, or our noble enterprise will suffer a quick and silent demise. The alternative you don't want for sure be YOU might get the job. There is just one to prove you don't want the second, and is to send in contributions—articles, letters, photos, plans, sketches, even jokes. Letters and comments would, of course, be especially come from readers. Deadline is about the of every month. Mail to Eugene F. Magenau 3 North State Street, Concord, N. H.

BRICKLAYING MACHINE MAY SAVE $100,000,000 IN BUILDING COSTS

Paul Sommers of Montgomery, Ala., has announced that he has invented a brick-laying machine, which he claims will save $100,000,000 in building costs each year. The new machine was given a test recently on the Hunting College campus before representatives of government, brick manufacturers, architects, and contractors and labor.

The new machine will be put into production shortly, Mr. Sommers stated, and will be manufactured in several sizes and shapes for use in building both straight and curved walls. The inventor added that his new machine can hand-operated by one man who will be able lay between 2,000 and 3,000 bricks in an hour day.

When the brick-laying machine gets to production, Mr. Sommers asserted that his firm belief that brick construction demand will reach a new high volume, and that builders will be able to save up to 36 cents a square in brick wall construction.
John N. Engel has been appointed First State Architect. Commissioner Frank Merrill of the N. H. Highway Department declared in a recent interview with a member of the Committee on Public Relations and Information, that his department had no desire nor intention of supplementing architects in private practice on buildings erected for the department.

He also reaffirmed the policy expressed by Governor Adams of utilizing New Hampshire architects whenever possible. However, the department does intend to take over most of supervision of construction through inspection employed by the Department.

Commissioner Merrill stated his firm belief that a public works division either in his department or in the State, could not compete with architects in private practice except at prohibitive cost to the State. But a small agency with trained architectural personnel could be maintained with great benefits all year round, if it is maintained at a level represented by a straight line at the bottom of the wave of construction activity. Its functions would be as follows:

To make a pre-planning study of requirements.
To outline materials desired.
To collect, analyze and integrate all necessary preliminary data necessary to give the architect complete design information.
To represent the Highway Department in all dealings with architects and contractors.
To supervise construction, including full time inspection service when required.

The first Architect has been appointed. He is John N. Engel, who has been employed in Department for over 25 years. He was a graduate in one of the first classes to come out of the Architectural School at the University. His appointment is official recognition of the necessity of having architectural work performed by architectural men. According to Commissioner Merrill, this agency is to be a "test case" which, if successful, will be the precursor of a similar agency to be set up for all state construction projects.

Current projects are the Liquor Warehouse which was started some time ago, and a new office building to house the Highway, Motor Vehicle and State Police Departments. This is to be located across the street from the recently enlarged Highway Garage in Concord, and indications are that a formal competition under A. I. A. rules may be held to select the architect who will design it.

**NEW HOME STYLES PREVAIL IN NEW HAMPSHIRE**

Modern American home architecture is a combination of flat roof with wide overhanging eaves; entire walls of glass; open room-planning with fewer partitions; clean-cut straight lines throughout; one-story basementless design so that the house hugs the ground and saves step-climbing.

This new type of architecture for homes which has spread to every section of the nation, is also apparent even in conservative New Hampshire. Thousands of such homes of modern design have been erected in the midwest, the South, the New England States and along the Atlantic and Pacific Coasts, and the Granite State has several already built or under construction at the present time. Potential home builders have become aware that well-built, distinctive modern homes can be erected in the $6,000 to $15,000 price range.

Architects in New Hampshire, as elsewhere, have come up with fresh ideas to produce a home which combines comfort, convenience and beauty with construction cost economy. As a result of their imagination, the regional traditional house is fast disappearing and the stereotyped house is on its way to become a thing of the past.

New materials are combined interestingly with old; and new heating methods are used. Color assumes an integral part in modern architecture. Dual-purpose built-ins and rooms have been devised, all of which make for modern living.
Meet Your Architects


Canley Orcutt, born Abington, Mass., September 2, 1902. Attended Abington High School, Wentworth Institute, Boston Architectural Club Studio. Trained in offices of Frank A. Bourne and Howe, Manning and Almy, Boston. Came to New Hampshire in 1926 and was with Jens Frederick Larson, Hanover, for 16 years. Member of firm of Orcutt and Marston, Hanover, N. H. Registered in N. H. Charter member, H. Chapter, A. I. A.


(Continued on page 17)
Construction of a new grade school at Sandwich will get underway shortly, as the result of the award of the contract to the Leon Keyser Company of Manchester. The Keyser Company won the contract with a low bid of $81,293. Other bidders were Cleveland Wood of Sandwich and Blanchard Stebbins.

L. E. Martel and Son of Manchester have been awarded the contract to build the Pemcook High school gymnasium. The Queen Company submitted the lowest bid of $77,704 for the project.

Improvements at the Laconia State Armory, costing $8,816, will commence shortly as a result of action by the Governor and Council this month. The James Ross Associates of Concord were awarded the contract for the Lake City project after submitting the lowest bid.

NEW HAMPSHIRE ARCHITECT GOES TO SPAIN

This item may not be of any particular interest to the advertisers of this magazine, but commencing with the October issue of NEW HAMPSHIRE ARCHITECT a copy is to be mailed each month to Spain.

A few weeks ago a request was received for this new publication be mailed to:

Prof. E. Torroja, Director
Instituto Tecnico de la Construccion
Ruiz de Alarcon, 25
Madrid (Espana)
PORTSMOUTH MAN HEADS ENGINEERS

The New Hampshire Society of Engineers, newly-formed organization, elected John W.argin of Portsmouth as president at a dinner meeting this month at Laconia. Other officers named were Harold Swain, Conond, vice-president; Henry C. Newell, Conond, secretary-treasurer. Directors named for coming year were John B. Evans of Lancaster, and Samuel G. Hall of Alexandria and Percy Shaw of Manchester.

The new organization which is state-wide in scope, has a membership of 300 engineers.

Building contractors had their troubles during the past few years too, not the least of which is the poor quality of lumber frequently received them. A despairing contractor dispatched this telegram to the mill that had just supplied him a carload of lumber:

"Knot holes received. Send the knots."

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FHA PROPERTY RATING SHEET OFFERS REALISTIC LOOK AT THAT "DREAM HOUSE" WITH 7 WAY CHECK

Summarized below is a newspaper release which has been widely used. Members of the building trades will find it an interesting example of what is being done toward consumer education on construction.

1. STRUCTURAL SOUNDNESS is of first importance in rating a piece of property according to FHA. That means you should know the strength of the soil under the foundations, make sure the frame walls are secured tightly to the masonry and check the construction of interior items such as partitions, ceilings and floors. In some sections of the country house design should even take into consideration the prevalence of earthquakes and severe storms. Before a house can be approved for an FHA mortgage it must really be as well built as it appears to be. Sound construction is of vital consideration when a loan is to run for thirty years.

2. RESISTANCE TO ELEMENTS... how well will the house withstand the never-ending siege of sun and rain? Will it resist fire and decay, as well as attack by corrosion and insects? Answers to these queries involve a study of roof pitch, exterior and interior finishes and protection against such pests as termites and borers. It is a good idea to have the property inspected by a reliable termite control organization that will give a factual report on the extent of termite activity with cost or obligation.

3. RESISTANCE TO USE involves the question of whether or not there is danger of the sub-floors warping or of having the ceiling crack if you decide to move furniture on the floor above. How well plumbing withstands years of having grease and cooking grounds poured down the sink is another test for consideration. Of course hardwood floors, which have proved their ability to withstand generations of use and abuse get ready approval for a long-term mortgage.

4. LIVEABILITY AND FUNCTION PLAN is also of primary interest to

(Continued on page 13)
N. H. CHAPTER MEMBERSHIP
COMMITTEE ACTIVE

The membership committee consisting of
swart Lyford, Chairman, Malcolm D. Hil-
th, John D. Betley, Andrew C. Isaak and
erett R. Munson is actively at work securing
members for the Chapter and cordially in-
e to our next meeting all New Hampshire
chitects and draftsmen who would be inter-
ed in membership in the Chapter. Please
act the nearest membership committee
ner listed above for further particulars in
ard to the next meeting and to obtain data
embership in the Chapter.
The American Institute of Architects and its
apters have an intensive program under way
ich is of interest to all in the profession.
benefits of becoming a member and work-
ith the Institute toward a unification of
Architectural profession will be of great
p to all architects. In our own State, we
ve made splendid progress in our program
 more equalized awarding of public work,
uding State, School, Industrial and local
jects. Now is the time for all in the pro-
ion to get behind the Chapter and work
ard better and finer architecture in New
mshire.

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who are not now members of the state
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Tel. 128
LEBANON IMPROVEMENT SOCIETY PROVIDES SWIMMING POOL

This swimming pool, bath house and wading pool were completed last spring with funds provided by the Lebanon Improvement Society that operates the pool.

The pool is 45'-0" x 165'-0" and is built of reinforced concrete. Water for the pools is taken from a canal leading to the town pumping station, chlorinated and introduced into the large pool at sixteen points and at six points in the wading pool.

The bath house, which has a capacity of 500 ire baskets for bathers' clothing, is equipped with hot and cold showers, dressing booths, eel lockers and toilet facilities for both the men's and women's sections.

The pool area, the parking and the wading pool areas are completely fenced for safety and control. The whole development which includes a parking space of 51,000 square feet and a future picnic area is completely floodlighted for night use.

The project was designed and supervised by Hudson & Ingram, Architects and Engineers, Hanover.

FHA Property (Continued)

FHA property rater. In making this check the value of an architect's services in planning a home are immediately apparent. Size of the rooms and location for privacy and efficiency are to be considered. It's important to be able to get to the bath without going through the whole house . . . and for the kids to be able to jitterbug in the living room while you sleep through the noise undisturbed in an upstairs bedroom.

5. OPERATING ECONOMY of mechanical equipment—and that includes appliances as well as heating, wiring and plumbing facilities—is a point to be considered. Installation of adequate, durable equipment that can be repaired will merit a favorable rating because of the probability of lower maintenance costs. Washing machines, stoves and refrigerators when installed virtually become a part of the house.

6. NATURAL LIGHT AND VENTILATION is of more significance than you
Above photo shows installation of one of the first large scale RADIANT HEATING projects in the State. The illustration shows wrought iron pipe being fabricated in the floor slab of the new Chapel at the State Industrial School, Manchester, New Hampshire, by the Orr & Rolfe Co. of Concord. Koehler and Isaak of Manchester, Architects.

NEW MACHINE SHOP NO. 3, KIDDER PRESS CO., INC., DOVER, N. H.

Photo shows a progress view of steel frame work of the new machine shop No. 3 of Kidder Press Co., Inc., at Dover, N. H. This building, 100' X 250', is practically completed. The building is entirely steel and masonry construction and was designed in the office of Maurice E. Witmer, Architect, Portsmouth, N. H.

Harty Construction Co., Boston—General Contractor
M. J. Murphy & Sons, Inc., Dover, N. H.—Roofing and Sheet Metal Work
Womersley & Co., Portsmouth, N. H.—Heating and Plumbing
M. B. Foster Co., Portsmouth, N. H.—Electrical Work
Microclimatology

A big word for the study of small-size weather. Aided by Meteorologist Helmut Landsberg, FORUM presents some provocative insights for architects, realtors and the city planners on climatic conditions at the "breathing skin." Architects are well aware that the climate of a building site is quite different from that of Monroeville, Calif. But they seldom realize that the climate of their own home town often varies sharply in a distance of less than a mile or a range in elevation of a few feet. Everyone knows that grass makes a more pleasant surface for a building than asphalt. But few building professionals have actual data at their fingertips as to precisely why or how it gets that way. Hence, they would probably be surprised to learn that, on a summer's day, surface temperatures of a grass plot might easily be 25 or 30 degrees lower than that of an adjoining sheet of asphalt. Everyone knows that in the summer it is cooler in the country, but few stop to ask why this is so, or at can be done about it.

In other words, although everyone is acutely aware of the general climate of his locality, one knows much about the climate of his own backyard. Yet modern meteorology indicates that there may be a whale of a difference between the two. This study of the small size climate at a large scale is what the weather men mean when they speak of the "microclimate." The "micro" refers to the scope of the area studied, not the size of the differences.

There are many reasons for this blind spot in the popular mind—the first of which is, ironically, the Weather Bureau itself. Most people forget that the Bureau collects information on atmospheric conditions mainly for the purpose of weather forecasting, especially for the aviation industry. For this purpose, the weather man prefers to make his readings in what he calls "undisturbed conditions." These are found away from the surface of the earth and away from the congested areas of big cities and lead naturally to weather stations atop tall buildings or at airports.

The information obtained in this fashion is not immediately applicable to the zone of normal occupancy. We live close to the ground in a disturbed thin skin of the atmosphere which is studded with microclimatic differences. The most profound fluctuations in this microclimate are due to variations in local topography, to the presence or absence of water bodies, to forest and park areas, to the structure and cover of the soil. To a lesser extent, the microclimate is influenced by hedges, walls and buildings.

While the general climatic conditions of a given locality are beyond control, the climate

(Continued on next page)
Microclimatology (Continued)

of a specific portion can be readily influenced. This will be especially true if the area is
tensively built up. Usually—because of lack
of understanding of the factors involved—
tensive development of a given plot will
dpreciate its microclimate. Yet there is ample
evidence that important economies in the ho-
ing, cooling, lighting and cleaning of build-
can be gained by use of microclimatic facts
in siting, designing and landscaping.

When considering buying a house today,
most people are aware of the importance
"getting out of the smoke," many of them with
a good outlook or view, a few may even de-
mand a southern exposure. Most house hunts,
however, are apt to be more influenced by
whether or not the site is in a good neigh-
hood. The microclimate is seldom taken in
account in site selection—despite its consid-
able effect on the living environment.

From the Architectural FORUM March, 19__

VII Pan-American
Congress of Architects

Members of The Institute have been affor-
da good opportunity to attend the VII Pan-
American Congress of Architects which will
be held this year in Havana, Cuba, Decem-
ber 8 through 14.

Invitations recently sent out by the Presi-
dent of the Congress, Horacio Navarette, to
A. I. A. chapter presidents include a req-
uest that all those who are interested in attend-
get in touch with the Chairman of the Divisi-
op of Pan-American Affairs of the A. I. A.
Committee on International Relations, Dr.
Chloethiel Woodard Smith, 814 17th Str
N. W., Washington, D. C.

Representatives of other North and South
American technical planning societies will
attend this year's Congress. The Congress
will include 33 different categories in architec-
and the allied arts.

Although the time for organizing the exhi-
bin as part of this country's participation has ne-
necessarily been short, The Institute's committee
already received indications of an excel-
representative exhibit of contemporary work
from architects all over the United States.
Anyone desiring to submit material should co-
municate with Mrs. Smith immediately.
Meet Your Architects (Continued)

George R. Thomas, trained in offices of Neff and Thompson, Architects, Norfolk, Va., Parks and Baxter, Architects, Washington, D.C. Practiced privately in Portsmouth, Va. and Durham, N.H. Member of faculty at the University of New Hampshire as instructor, assistant and associate professor of architectural subjects. Also taught at summer sessions at the University of Virginia. Organized the Department of Arts at the University of New Hampshire and appointed Professor and Head of the Arts Department in 1948. Charter member, N.H. Chapter A.I.A.

Chester F. Wright. Member of the firm of Proost and Wright, Inc., Architects, Manchester, New Hampshire. Registered Architect in the states of New Hampshire, Massachusetts and Maine. Transfer member from the Boston chapter of the American Institute of Architects. Engaged in the profession of Architecture for the past 36 years as student, draftsman, salaried architect and principal. Many years in the employ of some of the leading architectural firms in the City of Boston before moving to the City of Manchester and establishing the present architectural firm in 1946. Architectural education received at the Boston Architectural Club operating under the American Beaux Art Atelier System, with Professor Affner, of the School of Architecture of Harvard University, and Professor Ferron of the School of Architecture of the Massachusetts Institute of Technology as professors and critics. Charter member N.H. Chapter A.I.A.

The candidate for the office of sheriff was defeated ignominiously. He got 55 votes out of total of 3,500 and the next day he walked down Main Street with two guns from his belt.

"You were not elected, and you have no right to carry guns," fellow citizens told him.

"Listen, folks," he replied, "a man with no more friends than I've got in this county needs to carry guns."

Two bats were watching another bat flutter through some of the oddest maneuvers. Finally he shook his head, "Gosh, he must have people in his belfry!"

ARCHITECTS’ INCOME TAX

Architects who are not familiar with the Silverson Plan, H.R. 3224, relative to architects’ income tax, should investigate. While the efforts of A.I.A. Chapters and headquarters have built up a good background of support, the bill has been crowded out of consideration at this session. New activity is planned when Congress reconvenes in January. Congressman Clifford Davis of Tennessee, who introduced the bill, has been assured that it will get a fresh and quick start at the next session. Write your Senator and Representative!

DESIGNING FOR CLIMATE

The Bulletin of the A.I.A. is collaborating with House Beautiful magazine in presenting a series of climatological charts and design data, starting in the current issue. This information in its technical aspects is being made available to the profession through the Bulletin and reprints, in order that the designer who conscientiously wishes to design dwellings and other buildings in a thoroughly functional manner will have the most accurate and reliable data to aid him in meeting the regional conditions for which he is designing.

These articles are recommended to readers’ attention, as they will confirm some things we already knew or suspected, and will teach us others which are not known or are widely ignored. It is said that “Design for climate, with collaboration of the landscape architect, can turn marginal weather into good, lengthen the hours and season of outdoor living in any locality, and ensure maximum usefulness of the site for 12 months of the year.”

Speaking of House Beautiful, the Bulletin says: “Serious concern and intensive effort in relation to such really fundamental matters by a non-technical and non-professional publication is unusual and commendable.”

BLUE PRINTS (Continued from page 8)

"Wes" Palmer, proprietor of the Palmer Plumbing Supply Company at Rochester, announces that plans are completed for the opening of a sales office and warehouse at Keene, which will serve western New Hampshire. Other sales offices and warehouses are located at Laconia and Portland, Me.
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Watch for future announcements of the Hospital Seminar to be held in Boston early in December, sponsored by the six New England Chapters of the A. I. A. The program will include topics of interest to hospital consultants, administrators and medical personnel as well as professional architects. Speakers will be chosen from among leaders in the hospital field and will deal with the most up-to-date solutions to the problems encountered in the design of the medium-sized general hospital.

Stewart A. Lyford in Concord and Nicholas Sasaki in Manchester are committeemen in charge for New Hampshire.

Poll taker: Does your husband belong to any party, lady?
Lady: Take a good look at me, mister. I'm the party he belongs to.

“Why should something be done about pretzel manufacturers?”
“Well, just think of all the crooked dough they handle.”

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right think. A house should have enough
ass to admit the right amount of light, enough
windows to permit proper ventilation of fresh
air, and kitchen ventilating equipment to do
away with unpleasant cooking odors. Overall
ventilation will also be aided by including an
attic ventilating fan in the house plan.

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• is worthy of careful thought. A freak-
ly designed house—even if it satisfies some
personal preference—is not a good invest-
ment because there are probably few others in
the world for whom the house is suitable. In
building a house it is always a good idea to
keep in mind the possibility that the house may
one day be offered for rent or for sale. Of
urse its appearance will determine to a great
extent the amount it will command on the
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