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OFFICIAL PUBLICATION
New Hampshire Chapter of the American Institute of Architects

AUGUST 1959

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New Hampshire Architect
The President’s Message

With this issue, New Hampshire Architect observes its Tenth Anniversary.

Founded in August 1949 when Maurice E. Witmer of Portsmouth was president of New Hampshire Chapter, AIA, our publication has been published each and every month of the years without interruption.

A majority of Chapter members have contributed to the success of this magazine over the years, but there are those among us who have contributed only lip service, and indeed, very little of that.

Chapter members should realize that New Hampshire Architect was established as a vehicle for the publication of projects by New Hampshire Architects.

I believe that all members of our chapter should get aboard this vehicle, and as president of the Chapter, I urge you all to do so.

John W. Holdbrook

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A. I. A.
New Hampshire Architect observes the tenth anniversary of its birth this month.

The newly founded magazine, sponsored by New Hampshire Chapter, AIA, first saw the light of day at the annual Ladies Day outing of the Chapter, held at Wentworth Lake, Wolfeboro, in August 1949. This magazine at its birth was given only from three to six months to survive, by some, but has weathered the storm for 10 years. Like any youngster growing up, it has had its sick spells.

Business firms identified with the construction industry, however, provided the life blood for the growing magazine, and to them goes the sincere thanks from the chapter and the publisher.

Spark plugs for the introduction of the new Chapter magazine were Maurice E. Witmer of Portsmouth who was president of the chapter in 1949, and Eugene F. Magenau of Concord, now associated with the American Institute of Architects in Washington, D.C.

The president and Mr. Magenau called a meeting of members of the board of directors early in June, at which time it was decided to launch the new publication in August of that year.

Besides President Witmer and Mr. Magenau, those present for the initial meeting included William L. White of Exeter, then secretary of the chapter, Dick Koehler of Manchester, Stephen Tracy of Nashua, and Norman P. Randlett of Laconia, directors of the chapter.

With an initial mailing list of 500 copies, New Hampshire Architect now distributes more than 2,600 copies each month. Some issues, particularly the annual School Issues, have seen the magazine's circulation rise to more than 3,500 copies.

Late in 1954, New Hampshire Architect undertook the publication of a School Costs Issue, at the suggestion of some of the chapter members. These issues during the past five years have become the Bible of many school boards and building committees during their preparations for the construction of new school buildings, additions and alterations. This has been evidenced by the fact that since the inception of the School Issues, the publisher has been deluged with requests for additional copies from School Board chairmen and School superintendents.

It might be noted also, that New Hampshire Architect has been printed since 1949 by the Capital Offset Company of Concord, without interruption. While this may not seem noteworthy to many, it is a known fact that many publications have changed printers and omitted issues for various reasons, during the early years of publication.

While the job of publishing any journal is a goatgetting task at best, the publisher of New Hampshire Architect has had a good right arm to fall back on in the person of Alexander J. Majeski, AIA of Bedford, who has served as editor of the magazine since 1953. Mr. Majeski has also served as coordinator between the publisher and members of New Hampshire Chapter.

The above is the life story of New Hampshire Architect during the past 10 years. What the next decade will bring, of course, nobody knows. However, with the cooperation of interested parties in good architecture and construction, the publisher looks for bigger and better things.
We are pleased to salute the New Hampshire Architect on this, their Tenth Anniversary, and wish to express our thanks to the N. H. A. I. A., the Editor and Publisher for their continued patronage. Our association has been most pleasant and progressive for all.

Yes — we fully realize and appreciate that it is due to the long association with N. H. A. I. A. and our many other faithful Customers that we have been able to expand our facilities and increase our technical knowledge to keep abreast of the ever — changing times.

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GRANGER RETIRES FROM BOARD

Alfred T. Granger, Chairman of the New Hampshire State Board of Registration for Architects has advised Governor Wesley Powell that due to the extensive amount of work in his office, to which he feels he should give his full attention, he does not wish to be considered for reappointment on September 9th, 1959 when his present appointment expires.

Mr. Granger was appointed on September 9th, 1947 for a six year term by Governor Dale and for another six year term by Governor Gregg.

Mr. Granger wishes to express his sincere thanks to the other members of the Board who have worked with him during these many years, as well as to the members of A.I.A., for having had the opportunity to serve in this capacity.

AIA AND AGC PRESIDENTS CONDUCT 'SUMMIT MEETING'

Top officials of the American Institute of Architects and the Associated General Contractors of America held their first "summit meeting" in Washington, D. C., on July 17 to discuss strengthening the relationship between these two major organizations in the construction industry.

AGC President James W. Cawdrey of Seattle, Wash., expressed the hope that the same spirit of friendly cooperation between the AIA and the AGC on the national level would prevail at the local level. He submitted several practical suggestions to facilitate better cooperation at the local level.

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Mr. Longden resides at 77 Oakland Street, Stoughton, Mass., and can be reached at his residence or at the office of Clark & Stearns, Inc.

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AIA President John Noble Richards of Toledo, Ohio, reemphasized the importance of close liaison between the architect and the general contractor in order to eliminate misunderstandings and to secure the benefits which result from understanding each other's work and problems.

The representatives discussed the merits of the single contract system, compared legislative policies and reviewed ways to get architects and general contractors to play an active role in redeveloping urban centers. Other subjects considered included retained percentages and scholarships.

The meeting was the first annual top level conference between the officers and key staff members of the two groups.
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ACOUSTICS DISCUSSED BEFORE N.E.C.M.A.


A proper discussion of acoustics must be broken down according to the area involved. The following discussion has been arranged to apply to small areas as differentiated from more larger gymnasium and church structures. Thus, these remarks pertain more directly to conference rooms, offices and motels.

One of the first aspects of acoustics involves impersonal noises such as are encountered where windows are open and traffic sounds are audible; such as emanate from diffusers, ventilators and heat plants; and such as are created by interior installations like IBM machines, typewriters and adding machines. These are background noises and constitute a level against which all other sounds must be measured.

The second aspect of acoustics involves consideration of reverberation and its control is of considerable importance. It is the aspect which contributes to the feel of a room and which is effected by such minor aids as furniture, couches, draperies, rugs and specially manufactured items like acoustical tile. The fuzziness, the softness, the shape and surface irregularity are the characteristics which effect reverberation characteristics.

The third aspect of acoustics is speech privacy; the freedom from annoyance in one area due to sounds emanating from another; for example, the freedom from noise in one office as a result of disturbances originating in another. This aspect is concerned more with sound transmission. Acoustics were so poor in one office building that executives vacated every other room in order to insure speech privacy. Transmitted noises are often carried by such parts of a building as an air conditioner, heat ducts and piping and around, and through doors. For reduction of sound transmission, heavy- (Continued on page 12)
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weight is more efficient than lightweight concrete masonry and sand packed units more efficient than solids. Sound pierces lightweight concrete masonry and smoke tests are often used to demonstrate this.

Reverberation control and transmission isolation can be so efficient that one can hear the proverbial pin drop, where background noises are absent. This, also is undesirable. The proper level of control is such that a speaker need not shout to be heard and can speak over the telephone with no difficulty.

Working with Owens Corning Fibre Glass Corp., an analyzer has been devised which will be of considerable help to the architect in combining elements and choosing materials to produce for various occupancies a desired degree of speech privacy. This will probably work like this; for total isolation Index.

<table>
<thead>
<tr>
<th>A Room Size: Office 150 SF.</th>
<th>(1) A Room Size: Office 150 SF.</th>
<th>(1) Classroom 800 SF.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Degree of Satisfaction: 9 out of 10 must be able to hear</td>
<td>15</td>
<td>2</td>
</tr>
<tr>
<td>Source Room Voice Level: Conventional</td>
<td>0</td>
<td>10</td>
</tr>
<tr>
<td>Listeners Room Use: Conventional privacy</td>
<td>6</td>
<td>0</td>
</tr>
<tr>
<td>Background Noise: Quiet</td>
<td>20</td>
<td>16</td>
</tr>
</tbody>
</table>

TOTAL ISOLATION INDEX—OFFICE 51 Decibels

CLASSROOM 43 Decibels

NOTES

1. A large room needs less acoustical protection.

2. If ten out of ten people must be able to hear, a better acoustical atmosphere must be provided.

3. If loud noises emanate from adjoining rooms more complete acoustical isolation must be produced.

4. If listeners room must be absolutely quiet, additional acoustical help will be needed.

5. If there is no back ground noise, additional protection would be needed.

TOTAL ISOLATION INDEX 100 Decibels

The above analyzer permits the architect to choose the proper level of privacy. The requirements for the office above can be satisfied as follows:

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Four Inch Hollow Concrete Masonry 55
Six Inch Hollow Concrete Masonry 56
2½” Wire Truss Steel, Gypsum Lath and one-half Sand Plaster both sides 59
Staggered Steel Studs, as above 66
Hollow core door with Gaskets 50
Hollow core door without Gaskets 41

(Continued on Page 34)
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Down through the years the vestry of this venerable colonial structure has faithfully served the auxiliary religious needs of its congregation. It is a tribute to the foresightedness and planning abilities of those early deacons that, except for very minor structural additions to enclose such modern necessities as heating and toilet facilities, the basic structure has proven to be more than adequate even to the inclusion of a fine modern kitchen.

However, as the Church entered its third century of service, certain requirements of a modern congregation indicated the need for expansion. This proposed increase in plant in a community of diversified interests required maximum utilization of space for each dollar pledged.
To keep the initial cost at an economically feasible minimum it was decided to build a one story masonry structure having its front wall and rear gable of wood frame construction. The proposed use of “Formbloc” 8” and 12” walls with insulating concrete filler keeps the first cost within reason and provides additional economies in heating costs as well as warm weather comfort. These effects are further enhanced by cellular foil type insulation above the ceilings and in other vital areas.

By subordinating the addition’s clapboarded and gabled front, with its four simple pilasters, to the main structure, it was felt that there would be less detraction from the original monument than if an attempt were made to “add-a-box” in the modern manner.

The Minister’s office and Choir Room are entered from the Foyer at the upper level of this “split-level” annex. From the Foyer are two steps down into the old church vestry and also the same number of steps down to the large Sunday School room which, at the existing kitchen floor level, can upon occasion serve as a dining room or auditorium. Flexibility of compartmentation in the Sunday School is accomplished by draw curtains on overhead traverse rods. Adequate storage space and an independent hot water heating system round out the contemplated improvements.
The Franklin Street Congregational Church Society, of Manchester, voted to build a new church at the northern end of the city where there was room for expansion and better parking facilities, this church to be of Colonial design and to seat seven hundred including the balcony. It is now being built on the property formerly belonging to Mrs. Charles B. Manning who donated the entire estate to the Society. The residence and barn are of red brick with white trim and Colonial in style and in excellent condition. The grounds are beautifully landscaped, containing large old growth trees, shrubs, and a winding brook. The church, when dedicated, will be known as the Brookside Congregational Church.

The new portion being built at this time will contain the nave, auditorium and kitchen facilities below; a connecting wing from church to residence containing the ministers quarters and class rooms above; a memorial chapel, the interior of which will be moved up from the old church. Under the chapel will be a large class room which can be sub-divided by folding partitions into three rooms. The interior of the barn will be sub-divided into class rooms. The residence, with a two storied Corinthian portico facing the lawn and brook to the south, will be used for social activities.

The church ground floor plan consists of an entrance, with coat rooms each side; the narthex with stairs at each end leading to balcony; the large segmental arched ceiling nave leading to the chancel at the east end. The chancel has a central pulpit treatment with the choir in back. The organ which will be moved from the old church will occupy the entire rear wall. The old organ front will be redesigned with a grille motive with large cross in the central panel. Flower and robe rooms are at each side of the chancel. As soon as the old church on Market Street is torn down, the old weather vane atop the steeple will be reconditioned and used on the new spire.
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In Canterbury Center one of New Hampshire's fine old Congregational churches was destroyed by fire nearly 125 years after it had been erected.

Occupying the same site as its predecessor, the present church is of Colonial design. Construction is wood with white painted clapboards.

Conforming to the trend in Protestant churches of recent construction, a chancel replaced the platform and center pulpit of the earlier church. An arched ceiling with acoustic plaster extends the length of the nave and the chancel. The interior woodwork and plaster walls are painted a light ivory. The pews are pine with hardwood trim stained mahogany.

Heating is forced warm air. Plumbing fixtures in men's and women's toilets are frost proof.
Erected primarily for use in the vacation season, this church was constructed so that ultimately it could be used all the year. To provide for social activities a well lighted basement was included.

On the sides the exterior walls are cinder concrete blocks faced with brick. The high end walls are brick veneer on wood.

Rising from the low side walls, laminated wood arches support the roof construction which is exposed natural finish wood beam and plank construction.

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Reverend Henri A. Blanchard, Pastor
Andrew C. Isaak, A.I.A., Architect
Manchester, New Hampshire
When the architects were commissioned to redesign the chancel of this 100 year old church they were faced with two major problems—of space and of lighting.

The first problem—lack of space in front of the altar rail—was solved by moving the choir nearer to the congregation. Another problem (common to many churches) was poor lighting. Sunlight poured in thru the stained glass above the altar in the midst of services illuminating the chancel but also blinding the pastor.

By eliminating these windows and the wall beneath them a recess was obtained at just the place needed to set the architectural theme. This theme is best described by quoting from the Chancel Dedication booklet.

"The architectural approach to the restoration of the Chancel was to bring into focus one thing—the Altar. To achieve this concentration all other elements in the Chancel were subordinated and simplified. The Altar itself is designed to represent a table which has a symbolic precedent from early christian liturgical practice.

The hand carved cross, the concealed lighting and the damask silk curtain are used to create an appropriate background for the altar.

The reconstructed back wall of the Chancel is of granite and is designed to give an appearance of strength, protection and permanence."

The architects found the keystone to the project in the energetic, decisive rector who stated his church's needs clearly and then let the architects find the solution within those terms.

Benches, parish coat of arms, altar cross and altar designed by the architects.
CHAPEL OF THE TRANSFIGURATION
Whitefield, N. H.

SHEPARD VOGELGESANG, A. I. A.
Whitefield, N. H.
ARCHITECT

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NEW HAMPSHIRE ARCHITECT
Palomino Lane
Manchester, New Hampshire

ATTENTION Mr. Alexander Majeski, R. A.

Gentlemen:

In the afternoon mail we received a copy of the New Hampshire Architect which we believe is one of the finest publications of its kind that we have ever seen. You and your boys should be congratulated. We feel certain it will do a world of good to promote the concrete products industry.

We are in the process of developing three large sales books for use in our home office here at Vancouver, Washington; one for our office at Mattoon, Illinois; and one for our Burbank office. Our thought in writing to you today is to ask if whether or not any of the very decorative pictures on special units that are shown in the booklet would be available to us for special use in our above-mentioned decorative manuals. If so, would you be kind enough to either send us the picture itself or the negative and whatever your charges may be we will be only too happy to forward you a check by return airmail.

Yours very truly,

WASHINGTON MACHINE, INC.

P. Paul P. Klemens
Assistant Sales Manager

Mr. Alexander Majeski, Editor
New Hampshire Architect
Palomino Lane
Manchester, New Hampshire

Dear Mr. Majeski:

We have just received the May issue of the NEW HAMPSHIRE ARCHITECT and wish to commend you on this outstanding issue of your very fine publication. The preparation, the photographs, as well as the printing, make this one of the finest issues we have ever seen directed to the architectural profession.

Sincerely yours,

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Psycho-acoustic problems must be solved individually. Even well plastered acoustically protected concrete masonry walls can be a difficult problem. Consider a dormitory located in a quiet neighborhood well back from the street. There are no back ground sounds effecting this problem, such as ventilator ducts or air conditioners. This is a very difficult problem because of the absence of background noises.

Much research has been done. Here we must call to the attention of the building industry to the fact there is not always a close correlation between actual field installation studies and laboratory results. It is of utmost importance that the laboratory environment duplicate the field exposure, in order for results to be comparable. The difference of ten decibels between field and laboratory has been found to be of serious consequence.

Here are a few cardinal points that we consider whenever we find an unsatisfactory acoustical climate. Find the noise leaks, set up a noise source and check it. N.R.C. are not as important as we formerly attributed. N.R.C. can be cut in half and not be noticeable. A sound may not be important at low frequency, yet a high frequency may be very disconcerting. A concrete masonry wall may behave like a material weighing about 30 pounds per square foot; at high frequency it may act like a material weighing 5 pounds per square foot.

A recording studio was found to have a lightweight concrete masonry cavity wall. 6"—plastered each face and acoustically was no better than a single wall. Cross ties and metal ties reduced the isolation index.

Separation of intersecting walls and isolation from floor by use of lead sheet can be helpful.

Control joints may play a tremendous part in reducing the isolation level.

Acoustics is a tool which can help the architect fashion a satisfactory climate for whatever occupancy his client desires.
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