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Maurice E. Witmer, Membership
John Carter, Education
Richard Koehler, Office Practice
George R. Thomas, Awards and Scholarships

PUBLIC RELATIONS

Nicholas Isaak, Public Relations, Chairman
Douglass C. Prescott, Government Relations
Alexander J. Majeski, N. H. Architect
Bliss Woodruff, Construction Industries
Edgar H. Hunter, Collaboration with Design Professions

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Arnold Perreton, Research
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Alfred T. Granger, Hospitals and Health

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<table>
<thead>
<tr>
<th>Name</th>
<th>Address</th>
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<tbody>
<tr>
<td>BETLEY, John D.</td>
<td>Manchester, N. H.</td>
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<td>BRADT, Horace G.</td>
<td>Exeter, N. H.</td>
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<td>BRODIE, James A.</td>
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<td>HUDDLESTON, Eric T.</td>
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<td>CARTER, John A.</td>
<td>Nashua, N. H.</td>
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<td>DIRSA, Mitchell P.</td>
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New President and Executive Vice President named at C. H. Sprague & Son Co.

P. Shaw Sprague, Chairman of the Board of C. H. Sprague & Son Co., a large integrated coal company and fuel oil distributor of Boston and New York, announces the election of George H. Seal of Marblehead, Mass. as President, and Dewitt C. Snyder of Greenwich, Conn. as Executive Vice President of the company.

Mr. Seal succeeds Peter F. Masse, who was killed in a plane crash at Idlewild on March 1st. Born in Lynnfield, Mass. in 1909, Mr. Seal joined the Sprague organization in Boston in 1933. He became a Vice President in 1948 in charge of all New England operations and is largely responsible for the development since that time of Sprague's eight fuel oil terminals on the New England coast. He is also a Vice President of Atlantic Terminal Sales Corp., Imperial Smokeless Coal Co., C. H. Sprague & Son (Canada) Ltd., Starch Sales, Inc., and a director of the foregoing and also Bangor & Aroostook Railroad, Bangor & Aroostook Corporation, St. Croix Paper Co., Petroleum Heat & Power Co. of Rhode Island, and Sprague Steamship Co. He is a member of the Transportation and Communications Committee of the U. S. Chamber of Commerce, the Fuel and Energy Committee of the New England Council, the Committee on State Affairs of the Greater Boston Chamber of Commerce, and a director and former President of the Massachusetts Higher Education Assistance Corporation, and President of the Fort Hill Club of Boston.

Mr. Snyder fills the new position of Executive Vice President and will be General Director of all operations of the company's coal mines, and the sale and distribution of coal to Sprague's customers both in this country and abroad. Born in Mount Hope, West Virginia in 1914, Mr. Snyder has spent most of his business career in the mining of West Virginia coals. He joined Sprague in 1955 as a Vice President and in addition to that post, became President of Imperial Smokeless Coal Co., a Sprague subsidiary, in 1960. He also is President of Sterling Smokeless Coal Co., and Vice President of Winding Gulf Coals, Inc. He is a member of the American Institute of Mining, the American Coke & Coal Chemicals Institute, the Eastern States Blast Furnace & Coke Oven Association, and of the Marketing Committee of the National Coal Association.

LIFE

Man comes into the world without his consent and leaves against his will. During his stay on earth, his time is spent in one continual round of contraries and misunderstandings.

In his infancy he is an angel; in his boyhood he is a devil, and in his manhood he is everything from a skunk up. In his duties he is a fool. If he raises a family, he is a chump; if he raises a check, the law turns around and raises h - l with him. If he is a poor man, he is a poor manager and has no sense; if he is rich, he is dishonest, but considered smart. If he is in politics, he is a grifter and a crook; if he is out of politics, you can't place him because he is an undesirable citizen. If he goes to church, he is a hypocrite; if he stays away from church, he is a sinner. If he donates to foreign missions, he does it for a show; if he doesn't, he is stingy and close-fisted. When he comes into the world everybody wants to kiss him; when he goes out everyone wants to kick him. If he dies young, there was a great future before him, but if he lives to a ripe old age, he is in the way, only living to save funeral expenses.
Fire safety came first—economy’s a bonus in this low-cost, all-concrete school

Fire protection is a vital consideration when building a school. This was one reason the architects chose all-concrete construction for the new General Purpose Addition to the Central Utah Vocational School at Provo.

And use of concrete in its newest forms gave opportunity for economy, too. The entire shell of the building, including prestressed concrete roof, frame and floor beams, precast columns and curtain wall panels, was completed for $3.21 per sq. ft.

All this and beauty, too. The warm texture of the exposed aggregate panels contrasts with the clean lines of the unusual stepped columns. Panels are “sandwich” type. No additional finishing is needed for interior surfaces. Over the entrance, small panels cast with plaster forms depict tools of industry.

More and more engineers are finding that concrete offers opportunity for money-saving construction.
CAPTAIN HARMON RETIRES FROM UNITED STATES NAVAL RESERVE

Russell S. Harmon, A.I.A., has retired at Portsmouth from the U.S. Naval Reserve.

Holding the rank of Captain he spent ten years on active duty in three wars and ten years in a "ready" status of the Naval Reserve.

He studied engineering at Dartmouth, architecture at Boston University, and graduated from the University of New Hampshire.

Shortly after Pearl Harbor he was called to active duty in the Navy as a lieutenant, returning to civilian life eight years later with the rank of Commander.

During World War II he was active in the construction of many continental and overseas bases. After World War II, as a member of the commandant's staff, he organized and activated the Sea Bee Reserve forces for the First Naval District. For two years during the Korean conflict he served as executive officer in the Public Works Department of the New York Naval Shipyard.

In 1955 Commander Harmon assumed command of the Sea Bee Reserves at the Portsmouth Naval Reserve Training Center. Upon promotion to the rank of captain in 1956 he became the public works officer of the Portsmouth Naval Reserve Training Center which billet he held until his retirement.

Captain Harmon and his wife, the former Mildred Wilson, of Anchorage, Kentucky, reside in Durham. Long identified with the American Institute of Architects, and its New Hampshire Chapter. Mr. Harmon plans to devote his time to a renewed and revived practice of architecture. Where and when time permitted he served a limited number of clients. With a change in status new design and construction will be seen in the area by the work of Mr. Harmon.

"Environmental Engineering for the School"


Titled "Environmental Engineering for the School", the magazine is replete with subjects on Site Selection, Construction Planning, Acoustics, Lighting, Food Sanitation, Housekeeping, Insect and Rodent Control, Air Conditioning, Water Supply, Sewage Disposal, Plumbing, Swimming Pools, Solid Waste Disposal, Fire Prevention and Protection, plus numerous illustrations and tables. Luther L. Terry, Surgeon General, Public Health Service, states in the foreword: It should be of particular value to those charged with responsibility for the planning, construction, maintenance, renovation, or repair of school facilities.

WOOD POST
SCULPTURED BY BLUMCRAFT IN HAND RUBBED OIL FINISH • SEND FOR GENERAL CATALOG M-61

Blumcraft of Pittsburgh
COPYRIGHT 1961 BY BLUMCRAFT OF PITTSBURGH • 460 MELWOOD ST., PITTSBURGH 12, PENNSYLVANIA
This modernization project reflects the cooperation of client, architects and contractor.

The client, with the aid of the architects, considered moving the offices to two other locations. One location — a new building, where the investment and operating costs would have proven excessive, and the other — a building to be vacated, where the location and building would not have been as suitable. Another major factor was that the client has been at this location for 65 years.

Many preliminary sketches and estimates were prepared, showing a new facade ranging from a gold and blue contemporary curtain wall to the brick colonial.

As the area of the building was limited several plans of each floor were prepared, with furniture laid out for efficient operation and future expansion.

An elevator was considered, but, due to the amount of floor space it would take up in addition to the stairs, the investment and operating costs ruled it out. A manually operated record carrier was installed to eliminate travel between floors.

The work was scheduled floor by floor and according to vacation periods, as the building was occupied during progress of the work. The architects and contractors changed plans and work to afford flexibility in meeting many unforeseen structural or other conditions as they were exposed.

The first floor is divided to separate the insurance and real estate agency from the building and loan association in accordance with Federal regulations.

The building has a sprinkler system, and is air conditioned throughout, with acoustical tile ceilings, fluorescent lighting and vinyl floors, except the first floor and stairs, which are carpeted.
FIRST FLOOR PLAN

KENDALL INSURANCE Inc.

Building & Loan Assn.

First Floor Plan
SECOND FLOOR PLAN

View overlooking reception counter showing entrance to conference rooms and private offices.

View from reception room.
AIR CONDITIONING
for the comfort and convenience of employees and customers at
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NEW HAMPSHIRE YORK CO.
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PROFESSIONAL LIABILITY INSURANCE
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Completion, Signs Up, Open for Business.

THIRD FLOOR
PLAN
A unique combination of construction technique gives Warner Auditorium in Anderson, Ind., the distinction of being the first lift-dome in the United States. Equally impressive is the fact that the cost of the 240-ft. diameter dome, columns and footings was only $178,000 — about $7.35 per sq. ft. This lowers the overall costs to about half that of a comparable structure built by conventional methods.

Concrete shell design, prestressing, and hydraulic lifting (lift-slab technique) were combined to produce this unique structure. By employing shell design, it was possible to create a majestic auditorium with soaring 68-ft. ceiling and no obstructing columns.

Casting of the 4-in. thick shell was done on the ground. The outer rim of the dome, which forms a 3-ft. wide compression ring, was posttensioned to offset the outward thrust of the dome. Thirty-six steel support columns resting on concrete footings were spaced at 20-ft. intervals in the compression ring. The entire dome, weighing three million pounds, was lifted 24 ft. into position and fastened to the columns.

Footings for the dome were placed in February, 1961. They extend 10 ft. into the ground, and form the base to which the 36 steel support columns are anchored.

To form the earth mound on which the dome was cast, some 38,000 cu. yd. of dirt and gravel was brought in, and the mound built up in stages. A topping of fine sand was used, covered with strips of 1-in. thick styrofoam. When the roof was cast, the styrofoam adhered to the concrete and later served as insulation and base for the interior plaster finish. Reinforcement was laid in place over the styrofoam.

A total of 900 cu. yd. of concrete was required for the roof. Expanded shale lightweight concrete, weighing about a third less than regular concrete (100 lb. per cu. ft. instead of 145-150 lb.), was specified. In placing the two lower sections, mixing trucks were driven up onto the earth mound and the concrete placed from above. For the final layers, cranes and buckets were used. To place the cap, the crane was positioned halfway up the earth mound on an open strip which was later filled in with concrete.

After the concrete has been allowed to cure, posttensioning of the compression ring took place. The ring, a thickened flange 44 in. wide and 25 in. deep around the base of the dome, contained conduits for three sets of steel tendons 202 ft. long composed of 40 high tensile steel wires 2/16-in. in diameter. The tendons were placed to overlap each other by 8 ft. and take in 90 degrees of the dome's perimeter. Each tendon end was fitted with a movable anchor which allowed prestressing and anchoring to the structure. The BBRV system of posttensioning was used, and a force of 720,000 lb. applied.

SEE PHOTOS PAGES 17-18-21-22
CREDIT WHERE CREDIT IS DUE, — AND HOW COME?

Perhaps in perusing the February issue of this magazine you took note on page 17 that Leo P. Provost A I A was the architect for the Administrative & Dormitory Units, Mount Saint Mary's College. As you continued on through pages 18, 19, and 20 perhaps you spotted the name of Douglass Prescott. So you say,— how come?

Well, as we all know, mistakes do happen, and we are sure it won't be the last one. Somehow Doug's name got by us at that spot, but luckily still appeared where it was supposed to.

So the credit is all to Leo. Sometime soon perhaps Doug will be entitled to credit, and who knows,— perhaps Leo's name will slip by us.

NEW OFFICE LOCATION at CONCORD for DUNLAP AGENCY INC.

The Dunlap Agency, Inc. has recently moved into new quarters at 3 North State Street, Concord, N. H. This agency, which concentrates on the bonding and insurance requirements of the construction industry, has been located at Boscawen for the past year and a half.

The Dunlap Agency, Inc. operates in close association with the Dunlap Agency of Auburn, Maine, which latter organization was organized in 1869 and has for most of those years been outstanding in servicing the insurance and bonding needs of Maine contractors.

Just as a matter of interest, the present Mr. Dunlap, at the helm of the agency headquarters in Auburn, is a native of Whitefield, N. H. This agency has been referred to, with considerable justification, as "the largest insurance agency in New England — north of Boston."

Joseph E. Rowley, who heads up the New Hampshire operation, still resides at Boscawen and is generally available there evenings at Pyramid 6-6231.

The motivation of both agencies will continue to be, as it has been in the past, a dignified and complete insurance service to the construction industry.

RULES CITED FOR USE OF INITIALS "AIA"

From time to time laymen, and architects too, write the institute asking about the proper use of the initials AIA or complain about the improper use an architect is making of them. Since the initials are a symbol of membership in The American Institute of Architects, the use of them is guarded zealously by the Institute. When the mis-use of them is reported, steps are taken immediately to correct the situation, according to a recent notice from the AIA headquarters, which cited proper use of the initials.

"The By-Laws of the Institute are explicit in stating who may use the initials and in what manner they may be used. It seems appropriate, however, to review their use from time to time.

"A student associate member may not use the initials or the name The American Institute of Architects at any time after his name.

"A junior associate member, after his name, is legally entitled to write, 'Junior Associate of the (blank) Chapter of The American Institute of Architects.' Note that the initials AIA cannot be used and the name of the Institute must be spelled out in full.

"An associate member is entitled to write 'Associate Member of the (blank) Chapter of The American Institute of Architects.' Once again the initials may not be used and the name of the institute must be spelled out in full.

"An honorary associate is entitled to write 'Honorary Associate of the (blank) Chapter of The American Institute of Architects.' The use of initials is permitted.

"A corporate member of the institute is the only membership category in which the use of the initials AIA is permitted.

"An honorary member is entitled to write 'Honorary Member of The American Institute of Architects.' No initials may be used.

NORTHWEST ARCHITECT
Artist's rendering of the Auditorium for the General Ministerial Assembly of the Church of God, now nearing completion at Anderson, Ind. The building has the distinction of being the first concrete shell dome to be raised by lift-slab technique.
Concrete is being placed on the lower 16-ft. section of the shell dome. An earth mound shaped to the desired contour served as base. Over this was placed a thin layer of fine sand and 1-in. thick styrofoam. Reinforcement was positioned over the styrofoam. (The various layers are visible, looking from right to left of the picture.)
The Charles K shoe store, of cement block, brick and curtain wall construction should be the first new building completed in the Spruce Street Project of the Queen City Urban Renewal Program.

Modern decor and design, brilliant lighting and its unabashed newness will set the store apart from the drab surrounding area.

There has been considerable progress during the past year in the Spruce Street Project area. Of the 434,152 square feet available for private development, 406,669 square feet are sold and the remainder is spoken for by redevelopers.

The new Charles K store will have its own customer parking accommodations.

Andrew C. Isaak A I A
Manchester, N. H.
Architect
Adjustable anchoring system solves problem of fastening railings to thin precast treads

Many of the problems of securely anchoring metal railings to concrete stairs have been overcome by an adjustable anchoring system developed by Blumcraft of Pittsburgh.

Heretofore, two conventional methods have most frequently been used to fasten metal railings to concrete:

1. Drill into the concrete and insert expansion shields.
2. Build steel anchors into the concrete, drill and tap the steel anchors for fastening the posts.

Both methods obviously require expensive field labor, and if the drilling is not perfect, vertical alignment of the posts is not possible.

Blumcraft's new adjustable anchoring system provides these advantages:

- Reduces costly field labor.
- Permits adjustability for post alignment.
- Eliminates breakage in masonry when drilling for expansion bolts.
- Provides extreme rigidity through sound structural supports.
- Prongs can be welded to reinforced steel in the concrete, so that the anchors form an integral part of the stair.
- Built-in anchors will not work loose, as may happen to applied expansion shields.
- Posts can be mounted at extreme edge of stair, permitting use of the full width of the stair.
- Permits side-mounting of posts to thin precast treads as narrow as 2", as well as to wood plank stairs and conventional concrete stairs.
- Decorative trim can be applied to the anchor at the edge of the tread.
- For through-tread mountings Blumcraft provides sleeves for building into the precast treads.

As pointed out by Blumcraft, the railing is only as strong as the anchoring to which it is applied.
Dome of the Warner Auditorium, Anderson, Ind., ready to be lifted into place. A protective surfacing and paint were applied before the lifting operation. Hydraulic jacks mounted on the 96 steel support columns were connected by steel rods to lifting collars embedded in the compression ring, and the entire lifting operation was synchronized through an electronic control panel.

Reduce maintenance care and costs for your swimming pool with amazing perma-glaze

the remarkable "tile-like finish" that lasts and lasts!

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