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Volume 4 March 1957 Number 3

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COVER
The winning design for the AIA Centennial celebration sticker. These stickers are available through the N. C. Chapter office.

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At various times of the year certain committee chairmen or members of our staff may have a message that is timely and important. This page on those occasions will be turned over to them. The North Carolina Education Association meets in Wilmington this month, and we are having as the first of our guest editorials a message from Leslie Boney, Jr., Chairman of the School Building Committee.

W. R. James, Jr.,
President,
N.C.A.I.A.

CONGRATULATIONS TO EDUCATORS

Our founding fathers appreciated the value of an educated people. America’s place of prominence in the world today is attributable in large part to their zeal and enthusiasm.

With the present emphasis being placed on schools, we are happy to give a few observations on this phase of our AIA work.

It is significant that in 1957 the American Institute of Architects and the National Education Association should both observe a century of service.

As partners the two are mutually dependent. The Educator requires shelter for his teaching. The Architect requires knowledge to build.

These organizations represent two of the great forces of our times. As Architects and Coordinators of the building complex we are aware that this is our nation’s largest industry. We are ever conscious of the great strides we have made in the design and construction of our buildings.

But as Architects and citizens we are also mindful of the great feats of the men and women who have labored at our sides building character and intelligence into our country through a continued improved educational system. We are eternally in their debt. Well educated people are the bed rock of our great and free economy.

The entire country is aroused to the need for better schools—not just a sufficiency of teachers and buildings. There is no doubt but that we will have to change our present system somewhat in order to just keep up with the tremendous growth in our population. The problem is increased by the fact that as a nation our life is becoming so technical and our economy so highly industrialized that we require specialized education that was heretofore not necessary for a boy and girl.

Educators are working on new methods of teaching through the use of some of the latest scientific developments and mass instruction media. As Architects we must keep abreast with their developments and, working with them, exercise our ability and interest to create structures that will be the most helpful settings for the new era.

Architects throughout the country are studying the problem, seeking to find the right answer. The changes that we can already see certainly stress the importance of maximum flexibility and convertibility of space. This research will affect our future educational buildings.

Great things have been done for our nation in the past 100 years. We have seen many changes in the one room school. Architects and educators have been mutually productive in this change.

The education of our youth for tomorrow is our challenge of today. We must provide the finest buildings possible to serve as their laboratory for learning.

We congratulate the National Education Association on their record and we face the future with them dedicated to improving our profession and assisting in the moulding of a greater educational system.

Leslie N. Boney, Jr., AIA
The 1957 Regional Conference of the South Atlantic District American Institute of Architects will be held April 4-6 in Atlanta at the Atlanta Biltmore Hotel. The Georgia Chapter of A.I.A. is acting as sponsor and has selected as the theme for the conference “Science, Intuition and Architecture”. Among those to participate on the program are Arthur G. Odell, Jr., AIA of Charlotte, who will appear on a panel Thursday afternoon on “School Buildings”.

One of the features of the meeting will be a Building Products Exhibit in Convention Hall of the Atlanta Biltmore Hotel. This is in addition to the permanent Building Products Exhibit which is housed in the Building Industry Center. The School of Architecture at Georgia Tech will also have a Student Work Exhibit and an Industrial Design Exhibit.

The featured speakers include on Thursday, Beryl Price, Chairman of the national American Institute of Architects Committee on Chapter Affairs, and on Friday Leon Chatelain, President of the American Institute of Architects, Walter McQuade, Associate Editor of “Architectural Forum Magazine”, Robert B. Newman, Associate Professor or Architecture at Massachusetts Institute of Technology, and Howard Ketcham, color and design consultant, editor and author.

The social highlights will include a cocktail party Thursday evening co-sponsored by the Georgia Branch of Associated General Contractors of America and the Georgia Chapter of AIA, a cocktail party Friday evening sponsored by the Atlanta Chapter of Producers’ Council, tours of various groups of buildings Saturday afternoon, and a Beaux Art Ball Saturday evening sponsored by the Student Chapter of the Georgia Tech School of Architecture. For those who come in costume to the Ball there will be prizes, with first prize air transportation and hotel accommodations for a week in Mexico City for two people.

One of the business highlights will be the election of a Regional Director. Those who have served are as follows:

1924-27—Nat G. Walker, Fort Myers, Fla—Florida Central
1930-33—Franklin O. Adams, Tampa, Florida—Florida Central
1933-36—William T. Warren, Birmingham, Ala.—Alabama*
1936-39—Merrill C. Lee, Richmond, Virginia—Virginia*
1939-42—Rudolph Weaver, Gainesville, Fla.—Florida North

1942-43—Albert Simons, Charleston, S. C.—South Carolina
1943-45—George Harwell Bond, Atlanta, Ga.—Georgia
1945-48—John L. Skinner, Miami, Fla—Florida South
1948-51—Ross Shumaker, Raleigh, N. C.—North Carolina
1951-54—G. Thomas Harmon, Ill, Columbia, S. C.—South Carolina
1954-57—Herbert C. Millkey, Atlanta, Georgia—Georgia

* Not now South Atlantic District AIA
In the November 1954 issue of this magazine the new residence of Edward Loewenstein, AIA of Greensboro, was featured. The fireplace design, a reverse-flow stainless steel unit by Bennett-Ireland, Inc., was located in the canted glass window-wall and created much comment. Loewenstein says it was placed there in that he wanted to combine the usual center of interest fireplace without blocking too much of the view afforded by a window.

To achieve this effect it was necessary to have a unit consisting of a fire box, smoke chest and an underground flue, with the smoke being drawn down and out to a remote vent by a fan. The vent is in the stone wall shown in the lower right corner of the exterior picture above.
Preliminary details, such as size of unit, location from chimney, insulation of the unit, and method of fitting into the glass surface, were worked out by the architect. Careful attention was given to the problem of providing proper draft and exhaust for the reverse-flow fireplace. After painstaking checking of installation conditions and construction of unit, specifications of the underground flue and draft fan were determined. A 1/16 HP draft fan was located in a special pit at the chimney base. Standard 13” x 18” flue tile was used for the 15-foot duct from fireplace unit to fan pit.

Space requirements were such that only a 3” section was possible between the inner and outer replace shells. Insulation had to be provided to contain heat for safety and to prevent excessive expansion of the unit, since the fireplace would be a bearing surface to support a portion of the weight of the canted glass window. The fireplace proper was mounted on a concrete pier and then set on the flagstone hearth of the Loewenstein home.

Because the exterior portion of the unit was to be exposed to the weather, a stainless steel outer shell was welded to an inner shell of carbon steel. Insulation between these shells consists of alternating layers of one-inch rock wool and aluminum foil. Heat tests indicated that with this construction, the outer shell was safe to touch even when the inner shell indicated temperatures as high as 750° F.

Flexscreen fireplace curtain was built-in and a grate was also designed for the special unit.
This firm's new offices of nearly 2,000 square feet, were recently completed to the pleasure of its designers, and, from many comments, to the public too. Built on a 4 foot module, its cost was approximately 20 per cent less than more conventional construction. To achieve this the three NCAIA members chose a concrete slab with plastic tile floor, brick and plywood exterior, painted pressed wood walls for interior, fixed glass and 2" roof deck on exposed beam.
LEGEND

1. Receptionist
2. Conference
3. Samples Display
4. Office
5. Drafting Room
6. Office Supplies
7. Printing Room
8. Print Supplies
9. Air Conditioning Equipment
This building, built for the County Commissioners of Davidson County, brought this comment from the architects:

“We wanted to reject the distracting noise and movement of street traffic and yet present an open welcome to the public. The glassed wall court with unpierced wing walls seemed to be the best
Construction: Solid brick bearing walls and steel frame with steel window walls, light aggregate block, interior furring and partitions, concrete floor slab on grade and on bar joists, poured concrete roof slab on bar joists, built-up roofing, asphalt tile flooring, suspended acoustical fibre tile ceiling, metal door bucks.

Mechanical: Hot water boiler, 20 ton package air conditioning unit, duct system for heating and cooling. Recessed fluorescent lighting, 40 foot candles average illumination.

Size and Capacity: 98' x 71' overall, 12' 8" floor to roof, 6,162 square feet, 85,248 cubic feet, 24,000 books, 40 reader seats, 50 seat club room.
Construction has just begun on a 25 acre wooded site for this new 79,000 sq. ft. high school of red brick, aluminum and pre-cast stone.

A two story academic area, in the right foreground of the picture, houses classrooms for language, social studies, mathematics, art, and lecture programs. Within this area also are the administration and commercial departments. The building contains the library and study hall centrally located in a one story wing convenient to all student traffic to stimulate use of this most important part of the educational program.

The low wings of the building are grouped around pleasing terraces and courts, these areas allowing for controlled outdoor study groups and projects. Classrooms will be partly top lighted using plastic skylights.

Science and Home Making Departments are housed in a wing to the rear. The lunch room seating 300 with its modern kitchen doubles as a social area for group dinner meetings for the community and opens onto a terrace as do the student center facilities.

The gymnasium will be of a size to accommodate 1500 spectators.

The music instruction, choral and band activities are housed in an area between the gymnasium and the auditorium. The auditorium will seat 1,000.

Areas are provided for parking of faculty and student cars on the campus. A covered walkway is located on the north side of the building for bus and car loading in inclement weather.
Construction Industry Relations Committee Reports

The N. C. Chapter American Institute of Architects Committee on Relations with the Construction Industry, after two years of meetings and study, issued a report at the Chapter’s winter meeting in Chapel Hill last month. Members of the committee during the period are Jesse M. Page, AIA of Raleigh, Robert H. Stevens, AIA of New Bern, Macon S. Smith, AIA of Raleigh, Marion A. Ham, AIA of Durham, Ralph B. Reeves, AIA of Raleigh and Louis F. Voorhees, AIA of High Point. The committee consulted with the following organizations prior to concluding its report: Associated General Contractors Carolinas Branch, North Carolina Association of Plumbing and Heating Contractors, Carolina Chapter of the National Electrical Contractors Association, Carolinas Roofing and Sheet Metal Contractors Association, and the N. C. Budget Bureau.

Regarding these conferences, the report said, they were “held for the sole purpose of promoting a better understanding between architects, contractors, and other segments of the construction industry. Such work is a continuing process, and at no one time is it contemplated that all the answers desired will be present. However, as a start the committee wishes to submit the attached list of practices which it believes if followed by the architects will help other members of the construction industry in their efforts to erect the structures we design.”

The report is believed to be of particular interest to many in the construction industry, and is reprinted here on pages suitable for tearing out for filing.

1. **Number of Sets of Plans Issued to Successful Contractor:** It is recommended that the following number of sets of plans be issued as a minimum to the successful contractor:

   General Contractor ............. 10 Sets
   Mechanical and Electrical
   Subcontractors ............. 3 Sets Each

   Where all contracts are let under one, a minimum of 18 sets will be issued to the general contractor for distribution.

2. **Bid Openings:** All bid openings, where possible, should be scheduled for 2:00 p.m. on Tuesday, Wednesday, or Thursday, and no bids should be scheduled for day following legal holiday.

3. **Distribution of Bidding Documents and Plan Deposit:**
   
a. One complete set of bidding documents should be provided without cost to each prime contractor bidding. It is the Architect’s responsibility to determine if it is to the Owner’s interest to provide additional sets. Where the Architect does not so decide, he should provide extra sets at cost of reproduction to prime contractors when requested. Where project is let under one contract, the mechanical and electrical subcontractors bidding will be furnished plans and specifications on deposit basis, in the same way as general contractor.

b. Reasonable deposits may be required by the Architect on bidding documents but should be refunded to those contractors who return the bidding documents within five (5) days after the contract is awarded.

c. The Architect should provide adequate sets of bidding documents at accredited plan rooms at his own office for use by sub-bidders. It is suggested the Architect list in specifications the locations where bidding documents may be found. Material dealers and other subcontractors requiring other plans and specifications shall pay cost of reproduction.

d. That the mechanical drawings should be accompanied by all other drawings that have a bearing on the mechanical work so that the mechanical contractor can familiarize himself with construction details. It would seem to be a good idea to include all drawings for all contractors, but this, on the larger jobs particularly, would involve many sheets of drawings which have no bearing whatsoever on the mechanical trades, including elevations, floor plans and construction details. That perhaps the rule should be to include all drawings having any relation to the mechanical work.

e. That all specifications required for bidding on a job be bound under one cover whenever practicable.

f. That during the taking of bids, extra sets of plans and specifications be furnished as requested at the cost of handling, on a returnable basis. Add a copy of proposal form for bidder to retain.

g. That it would be highly desirable to be able to arrive at some uniform plan de-
Schools, Clubs, Churches, Office Hospitals,

1. Theatres, Schools, Clubs, Hospitals, Banks, Churches.


3. Factories, Loft Bldgs.

4. Warehouses, Garages.

5. Residences, Group Housing. Group Housing.

---

4. Time of Estimating: Ample time should be allowed the general contractor for the preparation of his estimate, and the closing of his bid; and to facilitate this the following minimum schedule is suggested.

SUGGESTED MINIMUM ESTIMATING TIME IN CALENDAR DAYS

(Allow ample additional time for advertising and distribution of documents)

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1. Theatres, Schools, Clubs, Hospitals, Banks, Churches.
3. Factories, Loft Bldgs.
4. Warehouses, Garages.
5. Residences, Group Housing.
6. When requesting wage rates of A.G.C., please be sure to give location of project.
7. It is recommended that the Architect specify wiring in the heating work to be performed by a licensed electrician, but included in the heating contract.
8. Painting for mechanical work should be specified in the general contract.
9. Treated wood nailers should be specified at all places where metal work and/or flashing have to be fastened when those decks or curbs are used that will not permit proper fastening otherwise.
10. Roof drains should be specified under the General Contract, but all interior roof drain piping including connections to a point five feet outside of the building should be specified under the Plumbing Contract. In this connection, an adequate lead, copper or galvanized iron vent flashing shall be specified that will give complete flashing protection; also the plumber and roofer will work together in the proper setting of the drains as to height above roof deck, etc. Specify the general contractor provide for temporary drainage of roofs.
11. A special procedure to prevent pitch and dead level asphalt drippage is available from the Carolinas Roofing and Sheet Metal Association.
12. Specify a minimum seal course under insulation of 2-plies or more of membrane mopped between the laps with hot or cold bitumen.
13. Specify steep asphalt for all residential built-up roofing except in some cases of complete dead level roofs.
14. Exercise great caution in specifying and inspecting brick parapet construction where it is immediately adjoining roof construction.
15. Roofing contractors would like for architect to include with his drawings a roof plan of the buildings; and to eliminate any items from the roofing specifications which are not related to roofing.
16. Specifications should not require of the roofing contractor any bonds except standard bonds issued, jointly by the roofing manufacturer with a licensed bonding company.

Respectfully submitted,
Jesse M. Page, A.I.A., Chairman
NCAIA Construction Industry Relations Committee
As an aid to members who are speaking during the American Institute of Architects 100th anniversary year celebration, the N. C. Chapter American Institute of Architects Centennial Committee has prepared six sets of twenty-five slides each. These were done under the assistance of William H. Deitrick, FAIA of Raleigh, according to committee chairman Anthony Lord, AIA of Asheville. They have been placed in the office of the Chapter and are available on request to Executive Secretary H. J. Stockard, Jr., c/o Box 408, Raleigh. The slides are on the following: Tryon Palace, New Bern, built 1767-1770; Mordecai House, Raleigh, before 1758, Greek Revival; Wakefield, Raleigh, before 1771, home of Joel Lane who sold land for Raleigh to be the Capitol City; the original State Bank in Raleigh now Christ Church Parish House, 1818; N. C. State Capitol, 1833-1840, Classic Revival; Christ Church, Raleigh, 1848, by Richard Upjohn, first President of AIA, Gothic Revival; Belo House, Salem, 1849; Thalian Hall, Wilmington, 1855, used as city hall and public library; Round About House in Wilkes County, 1855; Octagonal House, near Morehead City, 1856; Masonic Building, Fayetteville, 1858; Bellamy Mansion, 1859, details indicate coming of the Victorian period; Rugby Grange, house of George Westfield, near Arden, 1870; Biltmore Estate, Asheville, 1895, designed by Richard Morris Hunt; Moses Cone Estate, near Blowing Rock, around 1900; N. C. Governor’s Mansion, Raleigh, 1891; Beach House, Daytona, Fla. 1950, Francis Walton; State Fair, Raleigh, Overall Plan; State Fair Arena, Exterior, W. H. Deitrick, 1953; State Fair Arena, Interior; Illinois Institute of Technology, Chicago, Miles van de Rohe; Lever House, N. Y. City, 1953, Skidmore, Owings & Merrill; Cranbrook Academy of Art, Bloomfield Hills, Michigan, 1940, Eliel Saarinen; Falling Water House, Bear Run, Penn., Frank Lloyd Wright; and Chick Sales, Architect unknown.

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AGC Congratulates AIA On Centennial

The Associated General Contractors of America Carolinas' Branch dedicated its February 14th Bulletin to the American Institute of Architects Centennial. Pictured on the cover were W. R. James, Jr., President of the N. C. Chapter and Louis M. Wolff, President of the S. C. Chapter. On the inside front cover was an editorial "The AIA and AGC' complimenting the intra-industry cooperation between the groups. Another article had pictures of the N. C. Chapter Executive Committee, the S. C. Officers, Regional Director Herbert Millkey, AIA Fellows William Deitrick and Walter Hook, and four S. C. Fellows.

In recognition of the cooperation, the National Joint AIA-AGC Cooperation Committee recently passed a resolution which is of interest to all. It was adopted at the Annual Board of Directors meeting of the American Institute of Architects in Washington in February. It reads as follows: "RESOLVED, That the National Joint Cooperation Committee, AIA-AGC recommends that the Associated General Contractors of America, Inc., should take steps to discourage its membership from entering into the design field and offering a combined service of preparing plans and specifications and construction of projects of a competitive nature to prospective owners and the American Institute of Architects should take steps to discourage its membership from assisting or encouraging the above condition or endeavoring to eliminate the general contractor's services by offering their own services in a construction capacity."

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THE MARCH 1957 SOUTHERN ARCHITECT
Installation of the largest autoclave in the United States is now under way at Kinston, N. C. Used in the curing of concrete masonry products, it is a huge steel tube into which steam is injected at high temperatures and built up to tremendous pressure.

The first to be installed in eastern North Carolina, it initiates a general modernization program at Smith Concrete Products Co. which will total approximately $200,000.

Requiring three railroad flat cars to hold its huge bulk, the steel tube measures 108 feet in length with an inside diameter of 10 feet. It weighs approximately 80 tons. The door of the device weighs 6,000 pounds and is constructed to withstand 1000 tons pressure exerted against it during the curing cycle. Despite the tremendous weight of the door, it is so precisely hinged that a small child can easily open and close it.

A relatively recent development by engineers and scientists of the concrete industry and the University of Toledo, the autoclave’s principal contribution lies in the fact that it produces concrete masonry of a crystalline chemical structure in a curing cycle that is complete in 12 hours. All other curing methods last 28 days and result in concrete of amorphous condition.
Fire Underwriters Renew Scholarship

A grant of $4,500 for architectural scholarship awards has again been made by the National Board of Fire Underwriters to the American Architectural Foundation. The AIA Committee of Awards and Scholarships, under the chairmanship of C. Storrs Barrows, met in February to review applications for awards under this grant. The National Board of Fire Underwriters first made the scholarship grant in 1954 and has made one annually since that time.

ARCHITECTS AND BUILDERS IN THE NEWS

The Aluminum Association in its current bulletin carried an article "Schools Expand For the Future" which featured two high schools in California, a new dormitory at Carnegie Institute of Technology and the new N. C. State College School of Design Building by F. Carter Williams, AIA of Raleigh. — AIA has announced that the winners of the 4th annual Journalism Awards Competition twin prizes of $500 went to Cranston Jones of Time in the magazine field, for his story on architect Eero Saarinen, and to Frank Beckman of the Detroit Free Press in the newspaper catagory, for his description of architectural progress in that city. — The ABC radio network scheduled a 13 minute film on contemporary architecture on the OMNIBUS program March 17th, featuring buildings of the Air Force Academy, the St. Louis Airport, Chase Manhattan Bank, and the U. S. Embassy in New Delhi. — Leon Chatelain, President of the American Institute of Architects, has been re-nominated for another year, subject to election at the AIA annual meeting in Washington May 14-17. Conrad B. Wessell, Jr., AIA of Goldsboro, has been appointed by Mayor Berkeley to head a nine member citizens committee to study the city parking and traffic problems.

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Pictured above is an exhibit prepared by the Western North Carolina Council of AIA which presents the progress of architecture in that area. It is shown on display in the First National Bank of Catawba County in Hickory with James Biggs, AIA, Allan Bolick, AIA and James Sherrill, AIA, all of Hickory, from left to right, observing the panels. The picture below was made during the Western Council celebration of the AIA Centennial. The meeting was held at Catawba Country Club in Hickory on February 15th. From left to right are: Robert Bush, AIA of Hickory, Director, Beemer Harrell, AIA of Hickory, new President of the Western Council, Mayor Donald S. Mezies, who proclaimed February 17-23 as Architects Week, and Robert L. Clemmer, AIA, of Hickory, Vice-President of NCAIA. Other new officers of the Western Council are Frank B. Griffin, AIA of Gastonia, Vice-President, Thomas W. Cothran, AIA of Shelby, Secretary-Treasurer, Anthony Lord, AIA of Asheville, Director, and Andrew L. Pendleton, AIA of Statesville, immediate past-president and Director.
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Architects are invited and urged to submit their projects for publication in Southern Architect. All material should be addressed to Southern Architect, P. O. Box 408, Raleigh, North Carolina.

In submitting projects, all material should be in the publication office by the 25th day of the month prior to publication. Ink renderings or glossy prints may be submitted and all such work will be returned to the architect after publication.

In preparing material for publication, it is suggested that the material include exterior renderings or photographs, elevations, floor plans, plot plans, interior photographs if the building has been completed, and name and address of general contractor if the job has been let.

It is essential that the following information be furnished:
- Name and address of architect.
- Title of structure.
- Name and address of owner.
- Location of project.

It is very desirable that additional information be provided, including an analysis of the problems faced by the architect in preparing his design and his solution of those problems.

Below is a sample form which may be followed in submitting material for publication.

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<tr>
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<td>(State problems faced in preparation of design briefly, but completely.)</td>
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<td>Solution</td>
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