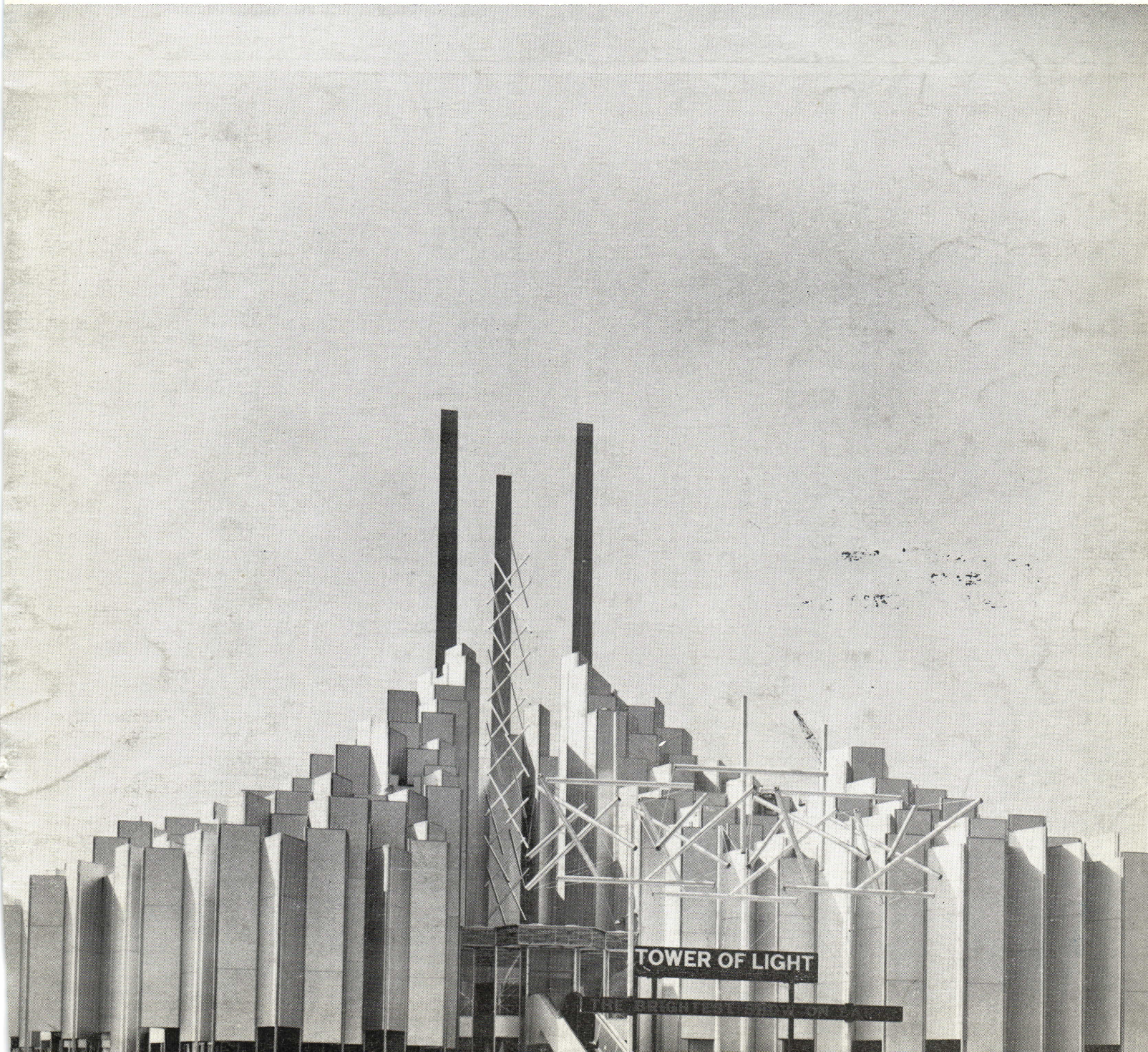


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JULY 1964



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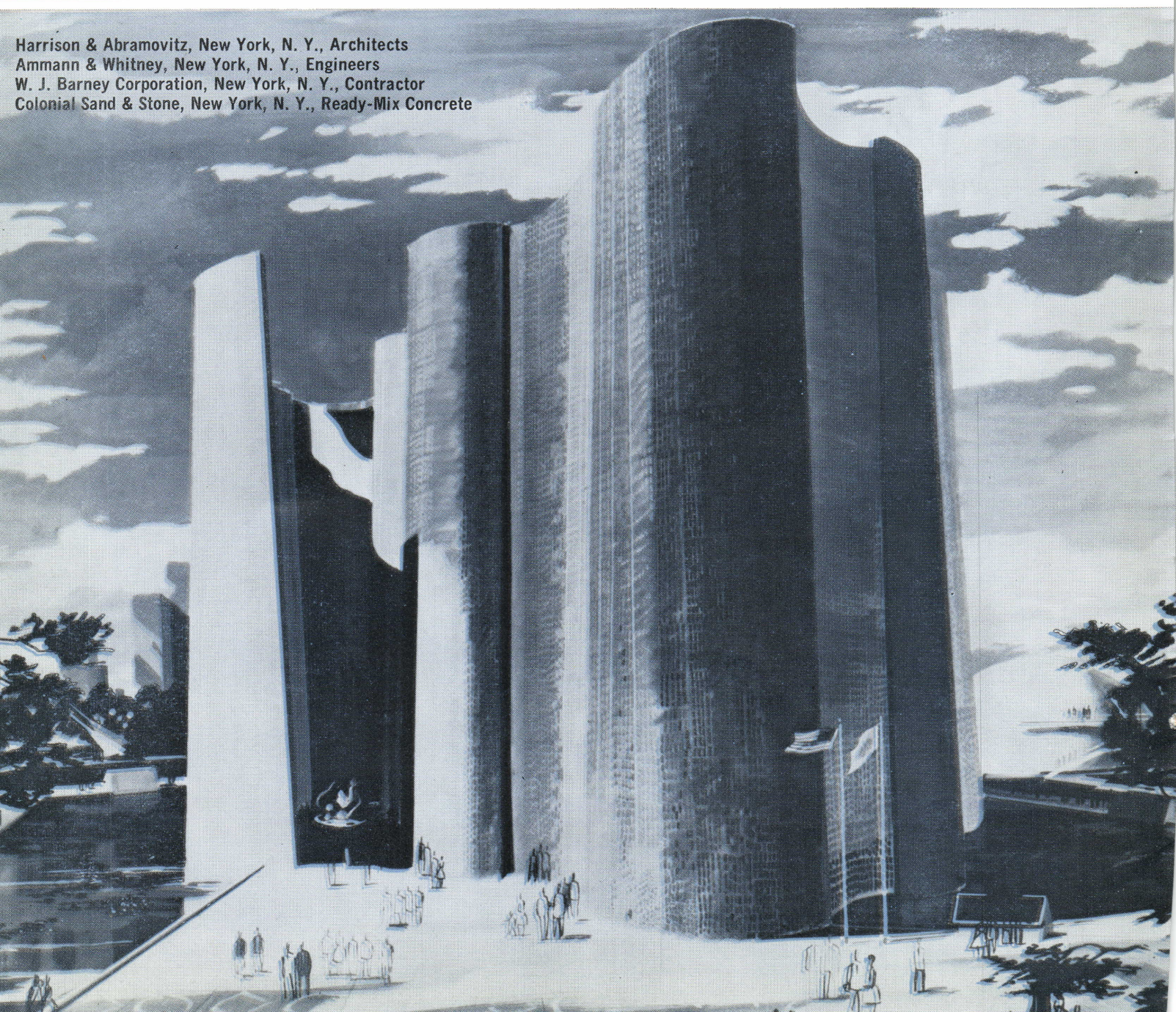
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VOLUME 11
NUMBER 7

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Cover photo: Tower of Light Pavilion, Electric Power & Light Exhibit, New York World's Fair



Those of you who were not present at the summer convention of the Chapter at Wrightsville Beach on June 25, 26, and 27, missed a very interesting and informative program, in addition to a whale of a lot of fun. The new Blockade Runner Motor Hotel came up to its advanced billings and is well designed as a convention facility. It promises to be an excellent place for us to meet in the future.

The professional program for the convention was on the subject of office practice and daily seminars were conducted with Dan Schwartzman, FAIA, of New York, Chairman of the Institute Commission on Professional Practice, as moderator. Mr. Schwartzman received the AIA Kemper Award in St. Louis for outstanding service to the Institute in the field of office procedures. He proved to be a very articulate speaker with a wide knowledge of office practice and related subjects. Wherever he went he was soon

surrounded by people who wished to talk with him about individual problems.

The second session was built around the subject of professional liability. Mr. Schwartzman had billed this as the session at which we would be scared to death, and it fully lived up to his advanced billing. Those present learned a great deal about current court suits involving architects, many of which do not involve his contract with his client. The session drew many questions from the audience and everyone went away convinced of the need for professional liability insurance.

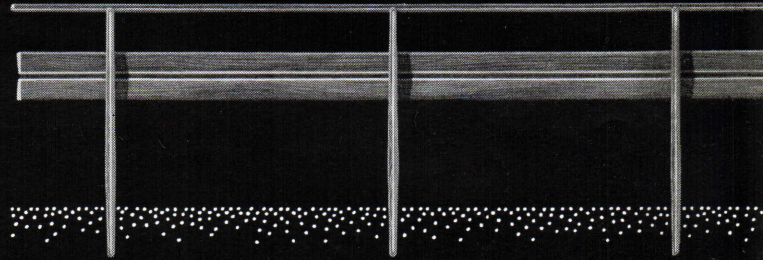
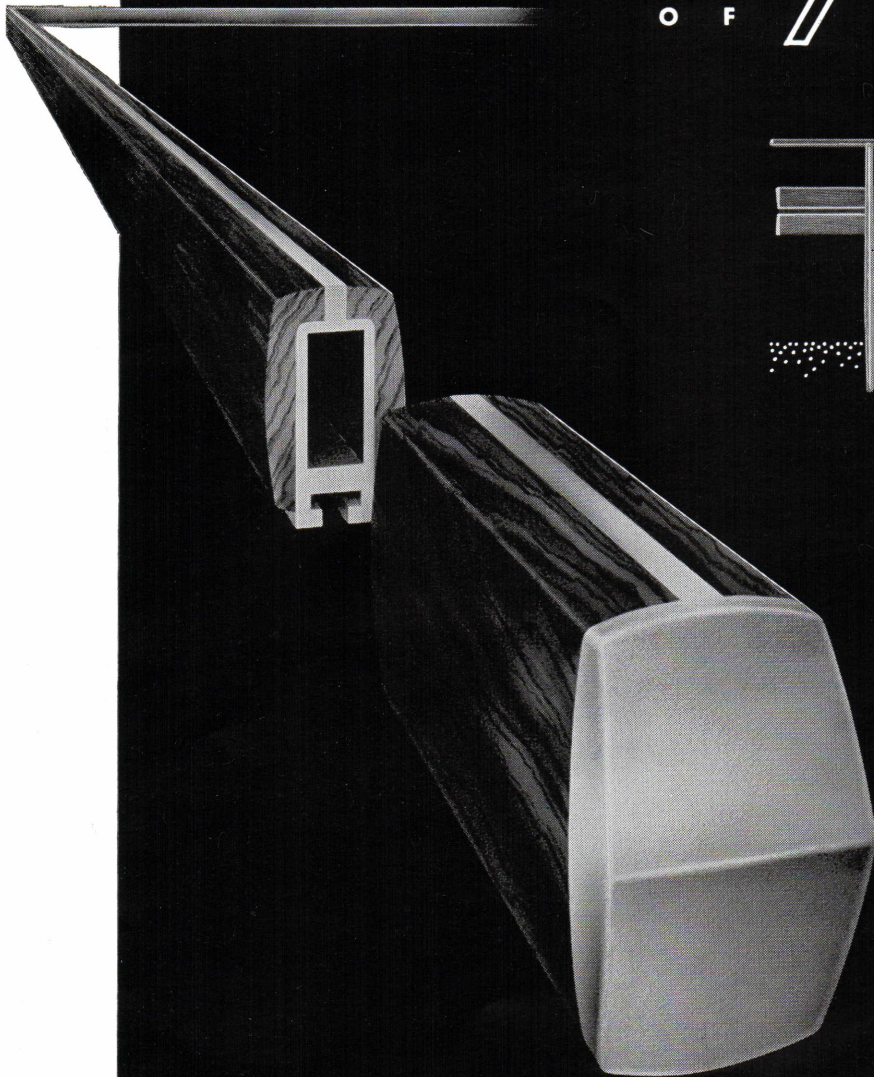
The South Atlantic Regional conference of the AIA will be held in Greenville, South Carolina, on October 29, 30, and 31. The program for this meeting will also be on the subject of office practice and procedures. Outstanding practitioners from all over the country are scheduled to take part and I would advise each one of you to plan now to attend this session.

S. Scott Tucker



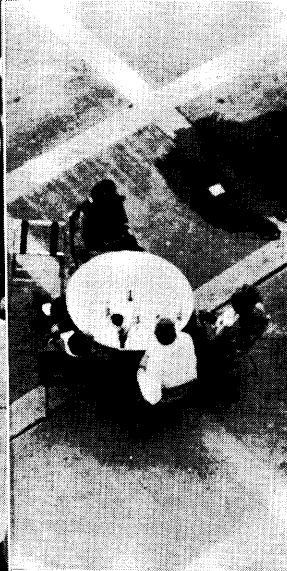
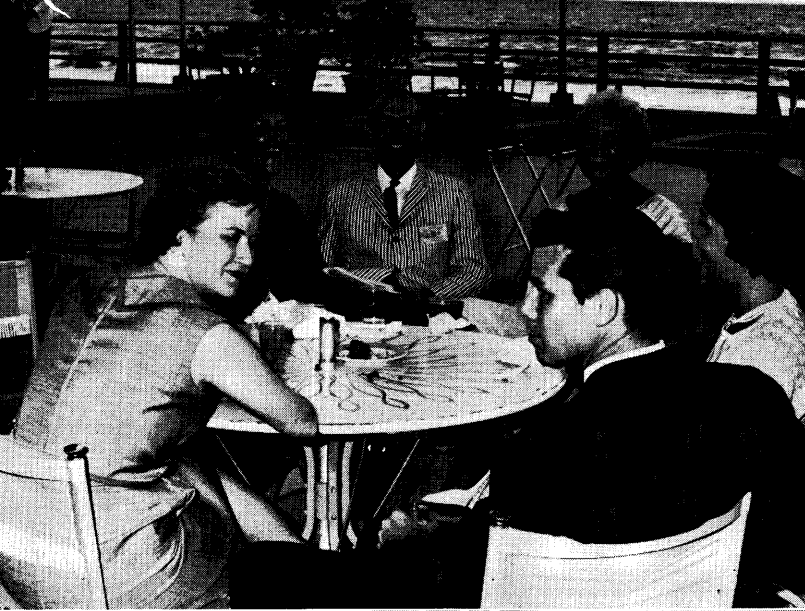
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NCAIA SUMMER CONVENTION

By suppertime on Thursday, June 25, the lobby of the attractive Blockade Runner Motor Hotel at Wrightsville Beach was bubbling with happy laughter and chit-chat of old friends greeting each other and new friends making acquaintances. For by this time, forty-five architects and their families had arrived for the summer convention of the North Carolina Chapter AIA. A friendly atmosphere pervaded as small groups gathered for discussions of various problems peculiar to the architectural profession.

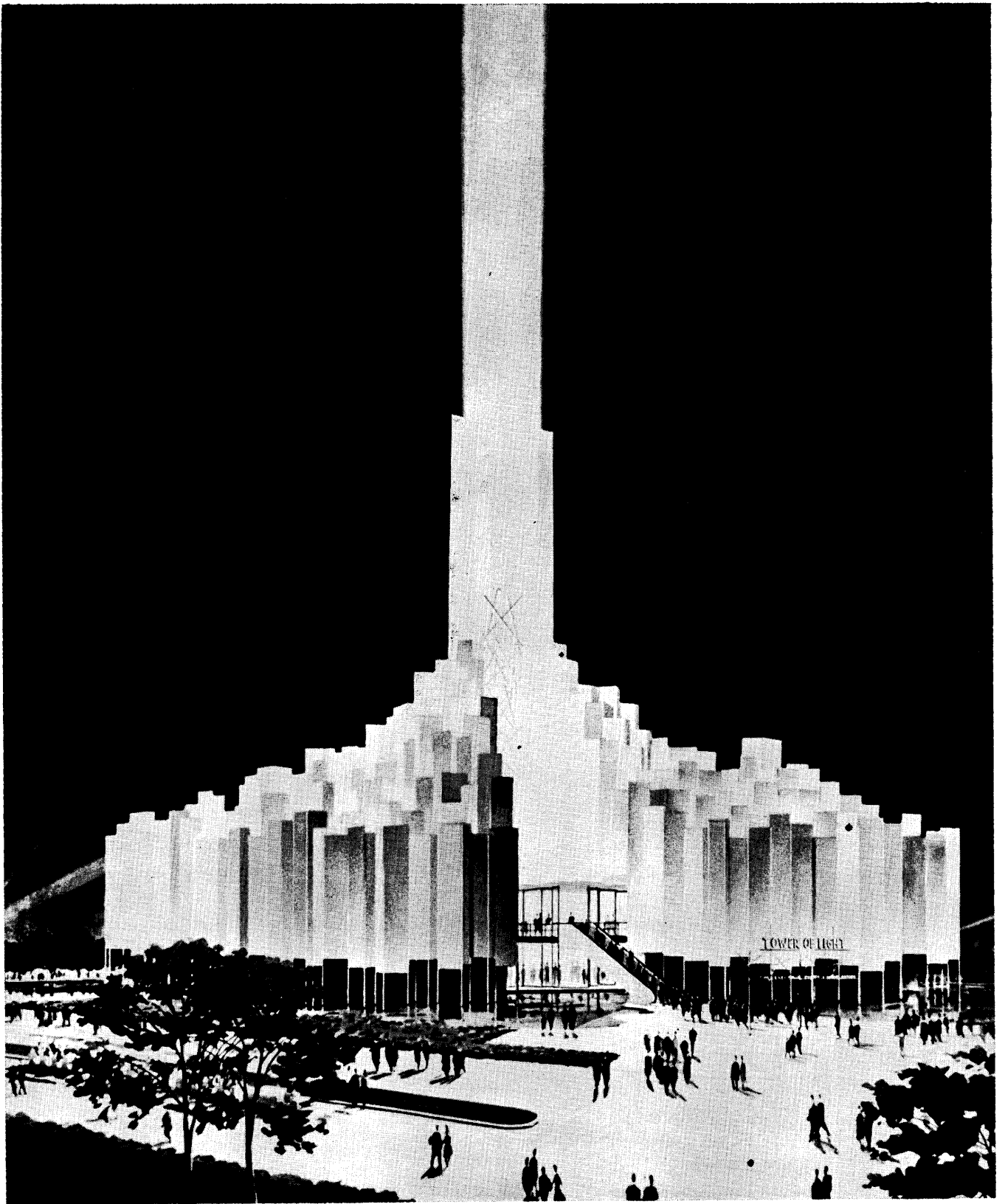
Following a lengthy Board of Directors meeting on Thursday night, Chapter meetings were conducted on Friday and Saturday mornings. Moderating the interesting discussions on office practice was Daniel Schwartzman, FAIA of New York City. Mr. Schwartzman was the 1964 recipient of the Kemper Award at the AIA convention in St. Louis, for his outstanding contribution to the profession in developing the new AIA handbook of office practice. He is also currently serving as commissioner for the AIA's Office Practice Committee. Participating as panelists for these discussions, which developed various aspects of professional practice, were Luther Lashmit, Bob Clemmer, Jim Hemphill, Paul Hardy and Joe Boaz.

President Ferebee reported that the following NCAIA members had attended the national convention in St. Louis: Scott Ferebee, John Ramsay, Bob Clemmer, Tony Lord, Henry Kamphoefner, Charles Kahn, Milton Small, Charles Sappenfield, Jim Hemphill and, of course, North Carolina's own "Gouldie" Odell, who was installed as President of the AIA.

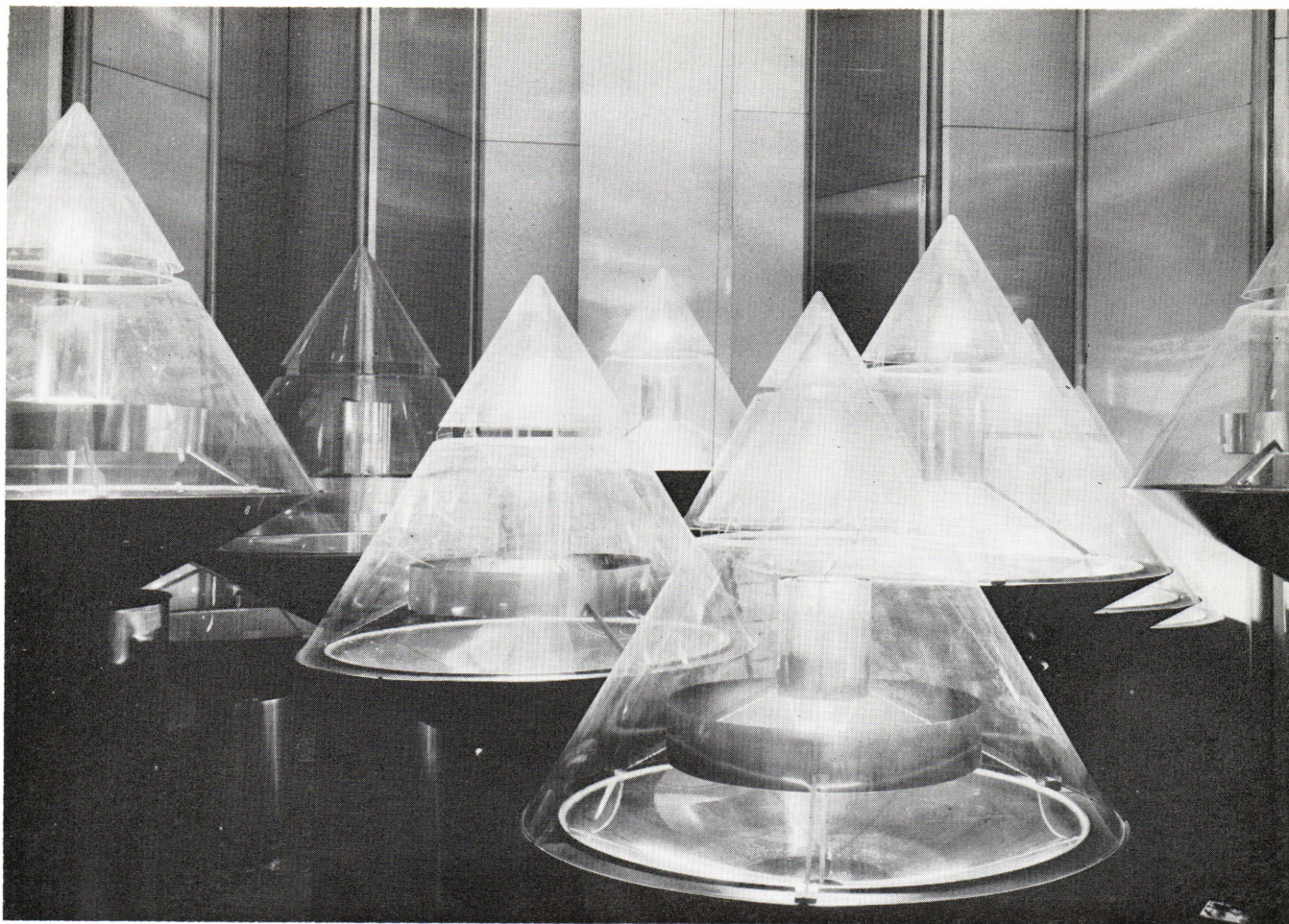
At the Friday night banquet, approximately 225 persons heard Dr. William C. Friday, President of the University of North Carolina, give a most interesting talk on where North Carolina is today in Education and what plans are being formulated for the future development of adequate facilities for increased enrollment in North Carolina colleges.

On the entertainment side, numerous parties and dances on Thursday, Friday and Saturday were enjoyed by members, wives and guests. From the photos at left you see various groups enjoying the hospitality and the children who were entertained at their own party on Friday evening.

A total of 76 members registered for the convention, which was the largest number ever to attend a summer convention.



TOWER OF LIGHT
ELECTRIC POWER & LIGHT EXHIBIT
NEW YORK WORLD'S FAIR



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At the New York World's Fair, where rotunda, dome, and circular shaped buildings predominate, the Tower of Light, with its hundreds of vertically staggered prisms, stands out as a distinctive architectural achievement.

The pavilion appears to be an inverted crystalline chandelier floating over a shimmering reflecting pool. Over 1,000 Alcoa Alply panels, the largest application of this material ever used, form prisms that rise 80 feet to a peak at the center of the structure.

Three steel pylons rise 120 feet in the middle of the structure to frame the 12-billion candlepower concentration of light which emanates nightly from the open Court of Light. Viewed from the front, the powerful shaft of light appears to cut right through the building, stabbing miles into the sky.

A seventy-foot high aluminum sculpture, the largest ever constructed in this medium, is suspended over the Court of Light. The sculpture, named Photonium, is constructed of aluminum tubing suspended in a network of stainless steel aircraft cable. Kenneth Snelson designed and built the

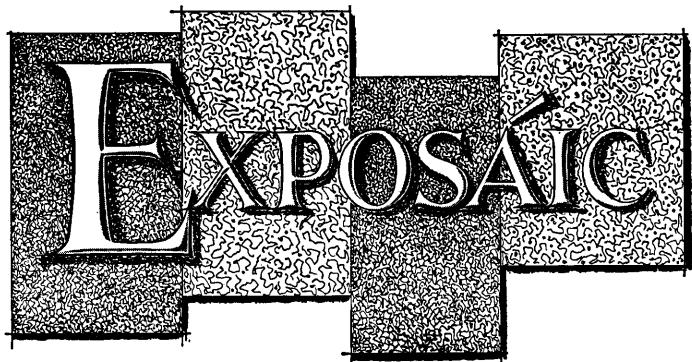
sculpture which is, at night, the most brilliantly illuminated piece of art work in the world.

The Tower of Light was constructed to house the investor-owned electric utility companies' World's Fair exhibit. The distinctive vertical impression became the basis of the building's design and the architects and designers employed the myriad array of triangular prisms which come alive at night with ever-changing, multi-colored lights, creating a magic fairy-tale castle effect. During the day, the prisms reflect the sun's rays, radiating a magic iridescence.

Visitors enter the pavilion by means of a motorized ramp that carries them across the reflecting pool to the main exhibit floor. Inside, they step onto an electrically powered revolving ring which carries them through seven acts of "The Brightest Show On Earth," a dazzling 30-minute musical presentation that tells of the wonders of electricity.

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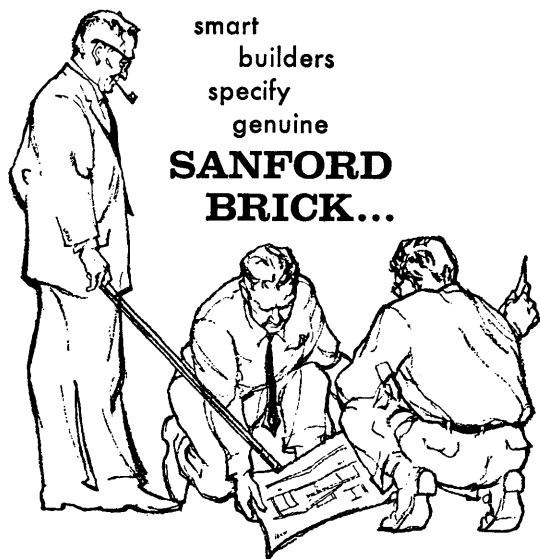
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A PRAYER FOR ARCHITECTS

Prayer offered by Reverend Jerome C. Jones (Pastor, First Presbyterian Church, Wilmington, North Carolina) at the opening of the summer convention of North Carolina Chapter American Institute of Architects, Wrightsville Beach, North Carolina 26 June, 1964.

Our Father,

As we pause in these moments to express our recognition of Thy presence here and Thy hand upon the day before us, we would ask Thee to help us.

We are familiar with the process of translating the abstract into reality—but we need Thy help to translate truth into actions. . .

We are accustomed to turning formula and concept into steel and stone—still we need Thy help to turn faith into daily life. . .

We are conscious of line, balance, and form—yet we need Thy help to give order and reason to our days. . .

We consider the inter-relationship of parts critically important—but we need Thy help in order to relate meaningfully to each other. . .

We are acutely aware of aesthetics and beauty—but we need Thy help to open our eyes to the beauty of holiness. . .

We are sensitive to the creative impulse—yet we need Thy help to be sensitive to Thee who art creator. . .

We are cognizant of ability and the worth of craftsmanship—yet we need Thy help, for apart from Thee we are nothing. . .

Indeed, Father, we are the helpers of men in their quest for structures of worth—but now we find that we need Thee to give worth to the structure of life.

In Jesus Name . . . Amen

JEROME C. JONES

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GREENSBORO ARCHITECTS ELECT OFFICERS

Greensboro Registered Architects had election of officers May 28. Officers installed at Embassy Club on Ladies Night, June 19. New slate includes: Walter E. Blue, Jr., AIA, President; George H. Foxworth, AIA, Vice President; A. C. Woodroof, Jr., AIA, Secretary-Treasurer; John Wall, Sergeant-at-Arms; Thomas Heritage, AIA and Frank Asbury Directors.

Regular meetings will be held on fourth Thursday of each month at Ivanhoes Restaurant, Greensboro.

BOARD ANNOUNCES NEW REGISTRANTS

The N. C. Board of Architecture has announced that the following have successfully completed examinations for registration as architects in North Carolina:

Grayson J. Annas, Hudson; J. Forrest Barnwell, Raleigh; George W. Colvin, Charlotte; G. Barry Lamm, Wilson; William C. Nichols, Raleigh; Ronald L. Smith, Charlotte; Lloyd G. Walter, Charlotte; James B. Willis, Jr., Fayetteville; Shirley O. Wooster, Jr., Southern Pines.

Certificates of Registration will be presented in ceremonies to be held at the Hope Valley Country Club, Durham, on July 25.

At a recent meeting of the N. C. Board of Architecture the following officers were elected to serve for the coming year: President, Archie R. Davis, Durham; Vice-President, Fred W. Butner, Jr., Winston-Salem; Secretary-Treasurer, Charles H. Wheatley, Charlotte. A. Lewis Polier, Raleigh, is Executive Director and other Board Members are F. Carter Williams, Raleigh, and Shannon Meriwether, Tryon.

UNC TO RECEIVE FELLOWSHIP GRANT

Fellowships in city planning and urban renewal will be established in graduate schools of ten U. S. universities through a \$1,000,000 grant of the Richard King Mellon Charitable Trusts, it was announced in Pittsburgh recently.

Each school will receive \$100,000, payable over a five-year period in annual installments of \$20,000. Half of this amount is to be granted by the school as fellowship aid to one or more Mellon Fellows in city planning or urban renewal. The other half will be allocated to the schools for faculty salaries to support the fellowship programs.

The fellowships are designed to improve the professional capabilities of men and women now involved in city planning, urban renewal, or closely related fields and to encourage a greater number of talented persons to achieve excellence in urban development.

One of the ten universities chosen on the combined basis of need, demonstrated excellent and geographical distribution was the University of North Carolina at Chapel Hill.

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AN INTERVIEW WITH PAUL W. DRAKE, FAIA - NCARB PRESIDENT

(Many questions have come into this office about obtaining registration with the National Council of Architectural Registration Boards. The following interview, first published in THE BULLETIN of the New Jersey Society of Architects, might clear up a few of the points in question.—Ed.)

INTERVIEWER:

RICHARD V. SCACCHETTI
Administrative Director, NCARB

Question:

Why does it appear to take such an extended period to complete an NCARB application?

President Drake:

Because of the necessity to exercise considerable judgment in the compilation of a record, processing can hardly be swift. However, it can be accelerated, and recent steps have been taken to pass certain definite qualifications. Reference checks, evaluation of data, correction of errors, misinterpretations which require clarification, all contribute to what has been sometimes called unreasonable delay.

Submission of an NCARB application with numerous loose ends which have to be cross-checked, investigated, and evaluated often will result in what appears to be unreasonable delays.

Question:

Is it true that some younger, less experienced architects obtain faster certification?

President Drake:

Yes, it is true. Younger men may have a good deal of accredited schooling which may be computed faster when evaluated against the NCARB syllabus. This is not to say that academic credits carry more weight than practical experience, but that credits are faster to compute and therefore move the application faster through processing. Not having a long work history, there are not so many references to gather, check out and review — again, resulting in faster processing and sometimes faster certification.

Question:

What has recently been done to accelerate the normal processing of applications?

President Drake:

An administrative study has been recently conducted which has resulted in substantial remedies to persistent problems. Additions to staff, increased responsibility accepted by staff, purchase of automatic equipment, and the adoption of advanced scientific management technique has placed the Washington office in excellent position to perform the services required by the profession. However, a good deal of work has yet to be done, and it is being done.

Question:

Why isn't reciprocal registration an "automatic" process?

President Drake:

To quote my old friend, Chandler Cohagen, past NCARB president, "In the 16th Century, Charles V of Rome retired and for six years he tried to get six clocks to tick together. He failed. Then meditating, he exclaimed, "How can I get six nations to tick together?" We have fifty-three State Member Boards. You catch a general glimpse of our problems.

To be completely automatic, registration laws in each state would have to "tick together" with registration laws in each and every other state. Local conditions being what they are, this will not be possible for some time to come. Perhaps there never will be complete agreement.

To this end, NCARB Certification has acquired the recognition and status and does more to establish reciprocity.

Question:

Do you personally believe every registered architect in good standing should move freely from state to state?

President Drake:

Yes, I do. However, this is more theoretical than practical. Some overall authority would have to pass on qualifications, current standing, fitness and the rest. And the better this office does the job, the closer we arrive at the present method of National Council Certification. This is what long ago established the necessity for National Council.

Question:

What are the reasons for requiring the high quality in an NCARB applicant record?

President Drake:

Strength of an applicant's record with respect to the NCARB syllabus is our chief concern at the Washington office. There, the very best available applicant history to send to Member Boards, is compiled.

Bear in mind Member Boards rely heavily on processing thoroughness. Such universal recognition helps accelerate future reciprocal registration for the architect qualified by National Council.

Question:

Why hasn't all correspondence to Headquarters office been answered promptly?

President Drake:

A good deal of the correspondence cannot be quickly and intelligently answered with a perfunctory look at the applicant's file. Detailed perusal of past correspondence, adherence to instruction, application to current NCARB standards has to be made before a judgment is made.

National Council recognition is sought after for a very good reason — it is deserving recognition. "Off hand" evaluations have no place in such an area of professionalism.

Recently, however, much thought and considerable action has been centered on practical ways and means to communicate more often from the Headquarters office. Postal cards have been employed to communicate "spot" status to applicants.

For those who weigh the advantage of written versus telephone communication; it is more expeditious to process a telephone inquiry than to compose, dictate, prepare and mail a detailed letter. However, it should be said a large volume of outgoing letters is a matter of routine.

Question:

What should NCARB applicants keep in mind to help expedite future applications?

President Drake:

First, an architect who is interested in Council Registration, should take the opportunity to ascertain whether he has met NCARB requirement, specified by the syllabus of NCARB Circular of Information, 3-62. This Circular is available for the asking, merely write the Headquarters office at 521 - 18th Street, N.W., Washington, D. C., 20006. Secondly, an architect should begin to compile a Council Record in the formative portion of his career, and build upon it as his career develops.

Architects often postpone this simple precaution for many years, then discover they are delayed because of the necessity for reference checks, school transcripts, and the like, which may not be quickly available.

Thirdly, when a project pends in another state, a Certificate Holder should promptly request reciprocal transfer from National Council. Waiting until the eleventh hour puts the Council office as well as the architect under extreme pressure.

Question:

What should current NCARB applicants do if a question arises regarding the status of an application?

President Drake:

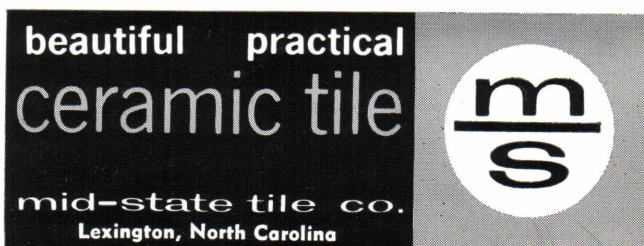
By all means telephone an inquiry to the Council office if you desire, and remember to provide your file number. Telephone in the afternoons to answer inquiries, as the mornings are reserved to process applications and hold personal consultations. The office staff is of great assistance and often answers inquiries. Ideally, write a letter indicating what you desire to discuss and specify when you plan to telephone to discuss the matter. This will allow a review of the applicants record and important questions can be more quickly answered.

If you do not have occasion to telephone, write a letter to the Council offices and ask what is being done on your application. Please include your file number. As I mentioned previously, it is most difficult to pass over so many applications and immediately correspond, so please be patient.

If you are passing through the Washington, D. C. area, by all means telephone for an appointment to discuss your application.

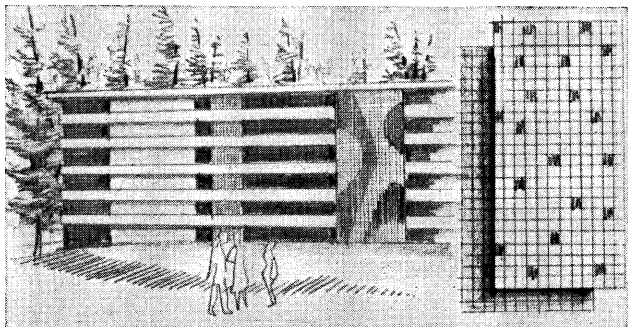
It should not be necessary to say that no one should anticipate preferential treatment. The procedure is never automatic and each application must be individually processed. NCARB service to the profession precludes preferential attention to any applicant over another equally deserving applicant.

Lastly, patience is requested. Please be assured we are hard at work on the compilation of an applicant record which will reflect the most strength that available facts will permit.



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SCHOOL OF DESIGN NEWS

Graduating seniors in the School of Design voted the Outstanding Classroom Teacher Award to Joseph N. Boaz, Associate Professor of Architecture in the School of Design. School committees from all of the degree granting schools of the University met and voted Boaz the Outstanding Classroom Teacher at North Carolina State. Announcement of the award was made at the May commencement ceremonies, and the award was accompanied by a cash grant of \$500 from the North Carolina State Alumni Association.

In commencement ceremonies held in Brooks Hall on the North Carolina State campus on Friday, May 29, 25 graduates received the Bachelor of Architecture, 3 the Bachelor of Landscape Architecture, and 5 the Bachelor of Product Design.

The faculty of the School of Design voted to Frank McCrady Williams of Matthews the American Institute of Architects School Medal on the basis of scholarship, character, and potential for architecture.

Samuel Briggs Ashford of Scotland Neck was awarded the North Carolina Chapter of The American Institute of Architects Book Award for the most outstanding work in architectural design.

William Earl Long of Roxboro was awarded the Alpha Rho Chi Medal on the basis of scholarship, character, and performed service to the School.

Donald Hoover Peeler of Lincolnton was awarded the Aluminum Company of America Book Award on the basis of scholarship, character, and potential for industrial design.

Scott Ferebee, AIA of Charlotte, President of the N. C. Chapter, presented the awards for The American Institute of Architects.

AIA PRESIDENT SENDS MESSAGE

Because of the press of Institute business the new president of AIA was unable to attend our summer meeting. However, the following telegram was received from Mr. Odell: "With appreciation and affection I send the North Carolina Chapter my warmest regards. I miss not being with my Tar Heel Colleagues at this time and look forward to our next meeting."

A. G. Odell, Jr.
President
AIA

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On June 2, 1964, directors of the North Carolina Design Foundation met in Raleigh to hear the university administration request foundation support for the 1964-65 academic year. Since 1949, the Design Foundation has furnished substantial funds for salary supplementation purposes. This has made it possible for the administration to attract and hold outstanding faculty members. During this period, over 100 architects have served as directors of this foundation. Some have served more than one four-year period. Upon request, we are including a list of the architects and businessmen currently serving as directors:

Rod D. Adams, Durham
Walter P. Baermann, Waynesville
J. L. Beam, Jr., Cherryville
James L. Brandt, Raleigh
Albert B. Cameron, Charlotte
Robert G. Campbell, Kernersville
Fred F. Church, Winston-Salem
Robert W. Etheredge, Raleigh
Thomas T. Hayes, Jr., Southern Pines
Watts Hill, Jr., Durham
Donald H. Hines, Winston-Salem
Lawrence E. Irvine, Charlotte

Luther Lashmit, Winston-Salem
Charles Laws, Charlotte
Anthony Lord, Asheville
Dan P. MacMillan, Jr., Fayetteville
A. G. Odell, Jr., Charlotte
J. Robert Philpott, Lexington
N. P. Rodgers, Lexington
Edwin F. Schnedl, Reidsville
Kenneth McCoy Scott, Durham
R. H. Stephens, New Bern
A. C. Woodroof, Jr., Greensboro

Business and industrial support has made the foundation a success. Last fall, these supporters or patrons were invited to the college campus as special guests of the foundation. Following a business session and luncheon, they were taken on a tour of the Design School. A recent President of the American Institute of Architects said, "The architect regards the contractor, manufacturer and himself as inter-dependent. We share the responsibility for a finished product in which the factors of design, material and fabrication have been combined to meet the personal needs of the owner as well as the esthetic requirements of the community."

During the next 90 days, members of the profession, foundation directors, and staff will contact over 300 new prospective foundation members. They are hopeful of doubling the number of patrons listed below.

NORTH CAROLINA STATE'S SCHOOL OF DESIGN AND NORTH CAROLINA

DESIGN FOUNDATION NEWS

The main function of the Design Foundation is to provide funds for salary supplement purposes at the North Carolina State School of Design. These funds materially aid the School in attracting and holding high-caliber faculty members and to remain competitive with other institutions. The Architectural

Profession wishes to thank the patrons listed below and to encourage other business and industrial firms to support the Foundation program. Interested persons may write Box 5067, State College Station, Raleigh, North Carolina. The list below does not include the many architects who also contribute to the foundation.

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Brick and Tile Service, Inc., Greensboro
Cape Fear Construction Company, Fayetteville
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Concrete Supply Company, Charlotte
Constructors Supply Company, Inc., Durham
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Delph Hardware & Specialty Co., Charlotte
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Fogle Brothers Company, Winston-Salem
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AUGUST 5: Durham Council of Architects,
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James A. Ward, Acting President

AUGUST 6: Raleigh Council of Architects,
YMCA, 12:15-1:30
Jesse M. Page, Jr., AIA, President

AUGUST 10: Winston-Salem Council of Architects,
Reynolds Building Restaurant
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AUGUST 15: Deadline for material for September
issue

AUGUST 22: NCAIA Board of Directors Meeting,
Raleigh

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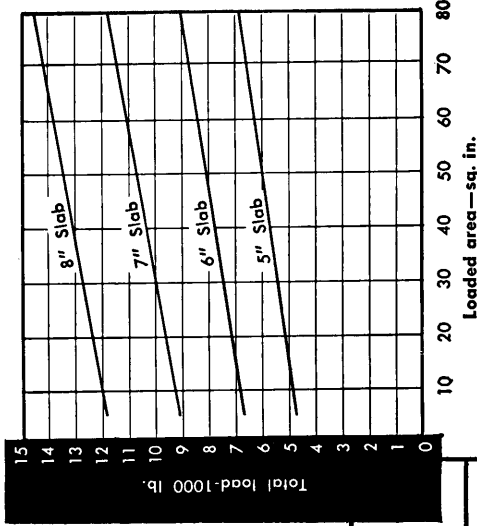
GREENVILLE, S. C.
OCTOBER 29-30

Concrete slab design for long-service floors. Example: assume that a slab is to be designed of 5,000 psi concrete for an industrial plant floor. There will be considerable traffic with trucks having loads of 10,000 lb. per wheel. Each wheel has a contact area of about 30 sq. in. Assume that operating conditions are such that impact will be equivalent to about 25 per cent of the load. The equivalent static load will then be 12,500 lb. An approximate formula for the allowable flexural tensile

stress of concrete is $4.6\sqrt{f'_c}$ (in which f'_c = 28-day cylinder strength). For 5,000 psi concrete, the allowable strength is then:

$$4.6\sqrt{5,000} = 325 \text{ psi.}$$

The allowable loads in chart at right are based on a stress of 300 psi, so the design load must be corrected by $300 \div 325$ which gives 11,500 lb. From chart a load of 11,500 lb. on an area of 30 sq. in. requires a slab about $7\frac{1}{2}$ in. thick.



Requirements for floors on ground									
BUILDING TYPE	TRAFFIC	MIX DESIGN DATA FOR ORDERING CONCRETE						CONCRETE FINISH	
		W/C in gal. per bag	28 day cylinder strength (psi)	Slump (in.)	Air content (%)*	Min. cement content in bags per cu. yd.			
SINGLE COURSE	Offices, schools, churches, hospitals, commercial bldgs.: where floor will be covered with tile, linoleum, etc.	5½-6½	3500-4500	2-4	5 ± 1 or 6 ± 1	5½	Steel trowel		
	Same as above except concrete is wearing surface. Also for service in light industrial buildings.	4-5½	4500-7000	1-3	5 ± 1 or 6 ± 1	6	Hard steel trowel by power and hand equipment.		
	Industrial or commercial buildings subject to heavy or abrasive use.	4-5½	4500-7000	1-3	5 ± 1 or 6 ± 1	6	Dry shake of extra hard aggregate added to surface immediately before power floating begins.		
	Heavy industry such as foundries, steel mills, heavy manufacturing, also any industrial or commercial building with highly abrasive conditions.	5½-6½	3500-4500	2-3	5 ± 1 or 6 ± 1	5½	Surface leveled by floating, but textured to insure bond to topping.		
TWO COURSE HEAVY DUTY									

*For concrete with 1½ in. max. aggregate use 5 ± 1% air content; for ¾ in. max. aggregate use 6 ± 1%.

**Topping mix must be mixed in paddle type mixer—generally not available from ready-mix plants.

Maximum Wheel Loads for Industrial Floors

The chart above is based on flexural tensile stress of 300 psi. For other stresses multiply loads by ratio of 300 to stress used. For an allowable tensile stress of 300 psi, compressive strength of about 4,300 psi is generally required.

For additional literature on design of concrete slab floors, or other concrete construction, just send a request on your letterhead. (U.S. and Canada only.)

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