SOUTHERN ARCHITECT



NOVEMBER

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NOVEMBER 1963 VOLUME 10 NUMBER 11



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PRESIDENT'S MESSAGE



Due to the illness of our President, Arthur C. Jenkins, Jr., our President-elect, S. Scott Ferebee, Jr., authored the message this month.

As part of its efforts to keep its members informed on the latest developments in design and constructions, the Chapter participated as a sponsor in the School Planning Conference held in Raleigh on November 7, 8, and 9. The conference was planned by the Division of School Planning of the North Carolina Department of Public Instruction with the North Carolina Chapter of the American Institute of Architects, the Professional Engineers of North Carolina, the Division of Superintendents of the North Carolina Education Association, and the School of Design at North Carolina State as co-sponsors.

The conference was opened on Thursday evening with an address entitled "The School - An Environment for Learning," by William W. Caudill of the firm of Caudill, Rowlett, and Scott, well known school architects of Houston, Texas. Mr. Caudill was followed on Friday morning by Dr. William H. Ittelson, Chairman of the Department of Psychology at Brooklyn College of the City University of New York. His subject was "Some Thoughts on the Psychological Impact of Architecture." Mr. Robert B. Newman, Acoustical Consultant of the firm of Bolt, Beranek, and Newman of Cambridge, Massachusetts, then spoke on "Some Common Sense for School Acoustics." There was a group discussion after lunch followed by a presentation entitled, "Thermal Environment for Education," by Mr. Fred S. Dubin of Fred S. Dubin and Associates, Consulting Engineers of Hartford, Connecticut. On Friday evening, Mr. Charles Dana Gibson, Chief of the Bureau of School Planning in the California State Department of Education, spoke on "Visual Engineering as a Factor in School Building Design." On Saturday morning, Mr. Caudill summarized the conference, there was a group discussion, and then a symposium with John L. Cameron, Chief of the School Housing Section of the Office of Education of the U.S. Department of Health, Education, and Welfare in Washington, D. C. Most of you will remember Mr. Cameron as Head of the Division of School Planning in

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the North Carolina Department of Public Instruction before going to Washington. All of the speakers were participants in the symposium.

The theme of the conference was "Schools are for Children." In his presentation, Mr. Newman did an excellent job of showing us the importance of proper acoustical designs in schools, but he made the mistake of saying that the best place for the band room to prevent it from being a noise problem, was down beyond the boiler room. Mr. Gibson brought him up quickly in his presentation when he reminded him of the theme of the conference, "Schools are for Children." He suggested that the band room should be put where it is most convenient for the children and that the engineers should solve the problem of making this locality acoustically satisfactory. In a similar manner, Mr. Dubin in presenting the case for air conditioned schools was pushing for more compact arrangements with little or no windows. Mr. Caudill reminded him that the school should be designed around children and not around the air conditioning system. These, of course, were only minor incidents in what was a very stimulating program.

There had been some concern on the part of the Chapter as to the participation by the architects. It seems that most offices in the state are busy and some of the Executive Committee were afraid that they would not take the time to attend the conference. These worries proved unfounded as approximately 140 architects attended out of a total registration of 320. The Professional Engineers also had a good attendance. Others present were School Superintendents, School Board Members, and Members of the Department of Public Instruction.

Those of you who attended noted that there was no registration charge. The entire cost other than the meals was borne by the sponsoring organizations. Members of the Executive Committee are sometimes questioned as to what is done with the dues of the State Chapter. This conference is an example of what your money is being used for. In the future, it is hoped that even more of you will take the opportunity of attending these conferences.

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NEWLY ELECTED OFFICERS OF NORTH CAROLINA CHAPTER OF THE AMERICAN INSTITUTE OF ARCHITECTS



The new president of NCAIA was born in Detroit, Michigan and raised in Henderson, N. C., where he graduated from Henderson High School in 1938. He was graduated from North Carolina State College with the degree of Bachelor of Architectural Engineering in June, 1948.

Upon graduation, Ferebee joined the firm of A. G. Odell and Associates, Architects in Charlotte, N. C. In March 1953 he entered private practice and is presently in partnership with Herschel G. Walters in the firm of Ferebee and Walters, located at 221 South Church Street in Charlotte. Their practice is not specialized but the firm does a large amount of public school and commercial work.

His previous Institute activities include serving as Vice-President of the Chapter, Treasurer of the Chapter, Chairman of the Legal Affairs Committee, the Public Relations Committee and the Insurance Committee. He has also served as Vice-President and Secretary-Treasurer of the Charlotte Council of Architects.

Ferebee is a member of St. Paul Methodist Church in Charlotte where he has taken an active part. Other activities include membership in the Chamber of Commerce and the Queen City Optimist Club.

He entered service in June, 1942, and served as a Paratrooper with the 101st Airborne Division in World War II, taking part in the invasion of Normandy and was wounded in action near Carentan. He has remained active in the Army Reserve and presently holds the rank of Colonel. He is assigned as Chief of Staff of the 108th Division (Training), a reserve division with headquarters in Charlotte. He graduated from the U. S. Army Command and General Staff College at Fort Leavenworth, Kansas in June of 1962, where he placed second in his class of approximately 225 students. Ferebee is married to the former Mary Elizabeth Cooper of Asbury, New Jersey and they have three children: Scott III, 12; John, 10; and Caroline, 5.

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DEDICATION OF HEADQUARTERS OCTOBER 18, 1963



- 1 W. H. Deitrick
- 2 President-elect Ferebee Speaker, Mayor James W. Reid, Raleigh President Jenkins

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- 3 A group of NCAIA Officers and Directors at the Dedication
- 4 AIA Tower
- 5 Executive Secretary Silver at her desk



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ST. PETER'S METHODIST CHURCH





MITCHELL VILLAGE, N. C.







architects:

ROBERT H. STEPHENS AND ALDO B. CARDELLI

new bern, n. c.

St. Peter's Methodist Church is a new church formed from the congregation of the old Camp Glenn Methodist Church, and relocated in Mitchell Village, near Morehead City, N. C. The change of character from a rural to a suburban church necessitated a building program which could be advanced in stages as the church developed to serve its enlarging community. The program was to provide for the immediate needs of the congregation, with the sanctuary and the social unit being built in the second and third stages respectively. The first stage, now built, includes the education facilities plus a kitchen and Fellowship Hall. The Fellowship Hall serves as a sanctuary for the morning worship service. A definite attempt was made to create a space reflecting the proper atmosphere for this service, which could still be used for the secular activities during the week.

Exterior walls are masonry, interior partitions are vinyl covered plaster-board on wood stud. Roof framing is wood decking on steel bar joist with structural folded plywood plate over the Fellowship Hall. Floor is slab on grade with vinyl and asphalt tile covering. Ceilings are suspended acoustic tile.

AREA —	Stage 1	8,000 square feet
	Stage 2	3,400 square feet plus
		720 sq. feet covered walk
	Sanctuary seating	200
	Stage 3	2,400 square feet
_		

COST PER SQ. FT. STAGE 1 \$9.98

contractor: O. C. Lawrence beaufort, n. c.

engineers: H. L. Buffaloe raleigh, n. c.

photographs: Joseph Nesbitt wilmington, n. c.

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in memoriam Walter Williams Hook, FAIA





NORTH CAROLINA NATIONAL BANK

charlotte, n. c.

architect:

WALTER HOOK ASSOCIATES, INC. charlotte, n. c.





MAIN FLOOR PLAN





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	RENTAL SPACE
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The design of the North Carolina National Bank Building, at 200 South Tryon Street, Charlotte, North Carolina, was dictated primarily by the existing site conditions and the Owner's desire to maintain banking operations on the site during construction. These conditions necessi-tated the phasing of both construction and demolition work along with the underpinning of an adiacent 17-story building. The building, when completed, was the Southeast's largest all welded, rigid steel frame structure. It consists of 2 levels below grade, a 4-story base, a 12-story tower, and penthouse. Patterned terrazzo sidewalks and planting areas surround the building, reflect design modules used on the interior. The main entrance leads into a spacious banking area with terrazzo floors, marble columns, butternut paneled walls, and a curved 100 foot long main teller counter of bookmatched Italian statuary marble. The center portion of the main banking floor has a two-story high ceiling which is designed of gold and gray anodized aluminum, holding plastic eggcrate light defusers. The executive offices on the mezzanine floor are finished in rosewood, teak, grass cloth, and fabric.

contractor:

Southeastern, Goode,

Thompson & Street Co.

charlotte, n. c.

THE NOVEMBER 1963 SOUTHERN ARCHITECT

The building contains four major vaults, two of which are 20' x 40' clear inside dimensions, an auditorium, a kitchen and cafeteria that accommodates six hundred employees for lunch, private dining rooms, employees lounge, offices and work areas for diversified banking operations, electronic data processing center, and entertaining facilities with promenade deck at the penthouse. Banking operations are conducted from the basement area through the seventh floor, with the remaining office tower floors used for rental purposes. The exterior walls at the base are sunset red granite panels, the largest single slabs of stone being 7' wide by 14' in height with a thickness of 41/2''. The tower is enclosed in gray anodized aluminum skin on a five foot module with double glazed windows utilizing heat absorbing tinted glass. Interior partitions of the office tower are metal moveable partitions, used in conjunction with coordinated ceiling and light grids. The availability of electric or telephone outlets in any desired location in the floor insures the Owner of utmost flexibility to meet any changing office requirements. meet any changing office requirements.



THE CHURCH OF THE HOLY INFANT

reidsville, n. c.

architects: SCHNEDL & SCHNEDL reidsville, n. c.





The Rectory & Drive were existing. The Owner desired a free-standing church building with no provision made for activities other than worship. The Sacristy was desired at the front as well as the Baptismal Font. The Nave should seat 150 persons and cost not to exceed \$45,000 with heating & air conditioning.

Floor: concrete slab on grade

- Walls: cast in place reinforced solite concrete
- Roof: precast concrete beams, wood, 2 x 4, 2 x 3 Deck

Hot water boiler in boiler room below Bell Tower. Air conditioning condenser, compressor on roof of boiler room. Remote heating & cooling coil in air handling unit located in Mechanical Room over Sacristy. Air distribution in perimeter trench below floor.

The design of the walls was conceived as a flower opening to the world and the roof as floating.







MEDITATION GARDEN

GAFFNEY, S. C. OWNER: FREDERICK MEMORIAL GARDENS ARCHITECT: JOHN ERWIN RAMSAY & ASSOCIATES SALISBURY, N. C.

The Owners of the perpetual care Frederick Memorial Gardens approached the Architect with their desire to erect a Carillon. Early studies of the project indicated that the budget set for the project, would be insufficient for such a Carillon and the Architect suggested several alternate solutions for the focal point of the Memorial Garden.

The suggestions culminated in the PARABALON, a unique structure combining the religious overtones of the Trylon and Parabola. The solution became the central element of the non-denominational, but primarily Protestant, Memorial Garden.

Water, sound, space and structure, enhanced by native trees and flowering plants, combine in a semi-enclosed meditation area.

The plan repeats the parabolic shape in undulating walls, and an elevated paved area provides raised sections that function as seats. Bubbling water, bells and the open sky framed by a weeping cherry tree, provide solitude and shelter for the heavy heart.



THE NOVEMBER 1963 SOUTHERN ARCHITECT

TALK AND DEDICATION, HEADQUARTERS BLDG., NORTH CAROLINA CHAPTER THE AMERICAN INSTITUTE OF ARCHITECTS, OCTOBER 18 – 4:30 P.M.

by The Hon. James W. Reid, Mayor, City of Raleigh

Mr. Jenkins, distinguished guests, ladies and gentlemen:

Personally, and on behalf of the citizens of Raleigh, I am pleased to bring greetings and best wishes to the North Carolina Chapter of the American Institute of Architects upon this formal dedication of their new Headquarters in downtown Raleigh.

Raleigh, of course, is an historic city in itself. All of us know that it was designated as the Capital City of North Carolina from its very beginning in 1792. It was designed, the streets were laid out, certain buildings were planned, all as the capital city. This is not a community which "just Growed", neither do our streets and thoroughfares follow the paths of ancient cattle trails.

But as the state Capital, most of Raleigh's historic life is built around the *state* of North Carolina. Today we have the opportunity of recognizing and appreciating a landmark which has been saved by Mr. Deitrick, and now by your Chapter of AIA. This landmark is essentially a part of the life of Raleigh as a city, rather than as a state capital.

Of course, nothing is more essential to the *development* of a city—whether it be a new *town* or a rapidly growing metropolis, than an adequate and abundant supply of water. This is being increasingly evident today, indeed, at this *moment*. With many sections of the country, the state, and eastern Carolina looking almost daily for rain, we are glad that for the time at least the city of Raleigh has an adequate supply. In the same light, we are looking *ahead*, when three years from now we must have another source of water. In just a month our citizens will be given the opportunity to vote funds to establish a new water supply from the Neuse River, something Raleigh must have if it is to continue to progress.

For many years after Raleigh was established, the finer homes of the city had their own wells and tanks to supply water, but for most of the people it was a case of having to "draw up the bucket" as often as water was needed. In 1815 the first public water supply was authorized and a dam was erected on Rocky Branch, east of where the State Hospital is now. A water wheel forced the water into a "water tower on a hill" and the unfiltered water was carried by wooden pipes to Hargett Street and then down Fayetteville Street. Spouts were placed at various points along the street.

It was on November 11, 1886 that the Board of Aldermen of Raleigh adopted an ordinance authorizing the construction of a water works system, to operate when the Raleigh water company was organized. This building, which we admire today, was part of this system, and was built in 1887. For the first time, water began to be piped into homes and business houses and Raleigh had an adequate water supply system. This system replaced a group of 11 cisterns in the city, the largest of these on Fayetteville Street had a depth of 13 feet 10 inches. If a fire happened to be anywhere near to these, hoses and reel companies could hook on and could fight the blaze with water from the cisterns.

At the turn of the century, the normal consumption of water was around 650 thousand gallons a day in Raleigh. Today, at thirteen million gallons per day capacity, we have another indication of just how far our city has come and has grown.

As Mayor of Raleigh, I am pleased to express the gratitude of our city to William Henley Deitrick and to the North Carolina Chapter of the American Institute of Architects for what they have done and are doing with this historic landmark. Reaching 85 feet into the air, this tower has been one of the points of interest to our community since well before the turn of the century. It is true that the city has grown, and has spread in many directions since the days when the old Raleigh high school was located here next door and the Fire Department across the street. But we have in this landmark one of the real beginnings of a progressive city. It is good that we take a moment to recognize such historic sites which have helped to make our community what it is today.

Prepared as a service to architects by Portland Cement Association Clip along dotted line	Intriguing designs and long spans are readily achieved with concrete barrel shells. Long barrel shells are those which have a small chord compared to span. (Short barrels have large chords compared to span.) To achieve full shell action (a membrane free of bending moments), support is required along the two curved edges as well as along the straight edges, as shown in the diagram below. In practice, however, the straight edges are never fully restrained so that		some small bending moments in the shell must be considered in the design. The stiffeners along the curved edges usually consist of arch-type ribs or diaphragms spanning between the sup- porting columns. Cantilevers are easily achieved; thus the visible shell edge can be as thin as the basic shell. Write for further free information. (U.S. and Canada only.)	1401 State Planters Bank Bldg., Richmond 19, Va.
sll			THE SUPPORTS, MAY BE INCORPORATED ABOVE SHOWS BOTH TYPES.	PORTLAND CEMENT ASSOCIATION 1401 State Planters Ban
No.10 long barrel she	Miluarkee Gas Light Company. Miluarkee, Wisconsin.	A C C C C C C C C C C C C C C C C C C C	BARREL SHELLS SPAN DATA ⁽¹⁾ SPAN WIDTH BAY a R t reinforcing (2) 80' 30' 10' 30' 10' 35' 3.5 100' 30' 10' 30' 11' 4.0 140' 45' 16' 35' 3'' 4.0 150' 45' 16' 35' 3'' 6.5	to-depth ratio varies from 1:10 to 1:15 (2) pounds per square foot of projected area

A national organization to improve and extend the uses of concrete

Following is a reprint from The Raleigh News & Observer Editorial page, Saturday, October 19.

SIGNIFICANT

The dedication of the Morgan Street Water Tower as headquarters for the N. C. Chapter of the American Institute of Architects insures the preservation of one of Raleigh's most charming landmarks. Certainly it is appropriate that architects are setting this example of how historic and significant buildings in Raleigh and all of North Carolina cannot only be saved but put to good use at the same time.

The ivy-covered brick tower was first saved from destruction back in the 30's when William Henley Deitrick, a Raleigh architect, bought it from the city. Now he has further insured its place on the mid-town skyline by deeding it to the State AIA on the condition that it neither be destroyed nor altered externally.

That those who design the glass and steel structures of today recognize the values of the buildings of the past is significant. Their use of a 76-yearold building for their modern headquarters should lead others in the State to do the same with other worthwhile historic sites.

AGC ELECTS NEW PRESIDENT

At its forty-third annual convention, held at Hollywood Beach, Florida, in October, the Carolinas Branch, AGC, elected William B. Boyle of Sumter, S. C. as president for the coming year, to succeed Erwin L. Laxton of Charlotte. Mr. Boyle is vicepresident of Boyle Construction Co. and president of Sumter Builders, a firm specializing in electric utilities, transmission line, substation and similar construction. He has been a member of the Board of Directors of Carolinas Branch, AGC, for three terms and served as vice-president and a member of the Executive Committee last year. He has also served as chairman of various committees for the AGC. Mr. Boyle is the son of Edwin B. Boyle of Sumter who was president of the Carolinas Branch AGC in 1939. Mr. Boyle is married and the father of one son.

Also elected for the coming year were: G. W. Bowers, Raleigh, vice president; P. Craig Gaskell, Charlotte, treasurer; Miss Ruth Sale, Charlotte, of the AGC staff was re-elected assistant treasurer.



FOUR COMPETITIONS ANNOUNCED

Announcements of four major architectural awards programs have gone out to the profession this month:

1964 AIA Honor Awards Program for distinguished accomplishment in architecture by an American architect for any building in the United States, or abroad, completed since January 1, 1959. "Through the Honor Awards Program the AIA seeks not only to single out distinguished design, but also to bring to public attention the variety, scope and value of architectural services," the "Careful consideration will announcement states. be given to submittals exhibiting excellence in function, economy and environmental harmony and in the distinguished execution of a complex program, as well as to the uniqueness or novelty of an esthetic or structural statement. It is the hope of the Board of Directors that this year's entries will include outstanding examples of special building types such as industrial architecture, schools, urban design and large-scale housing projects." Deadline for entry slips and fee is November 29.

Homes for Better Living Awards, sponsored by the Institute in cooperation with American Home and House & Home magazines. Awards will be made in three categories: custom houses, merchantbuilt houses and garden apartments. All award winners will be published in House & Home. All honor awards winners, and a selection of other award winners (as space permits) will be published by American Home. Deadline for registration slips and fee is January 26, 1964.

R. S. Reynolds Memorial Award for design of a significant work of architecture in which aluminum has been an important contributing factor. The international award consists of an honorarium of \$25,000—the largest in architecture—and an original sculpture in aluminum. Deadline for nominations is December 31.

Reynolds Aluminum Prize for Architectural Students "to encourage creativity in architectural design and to stimulate the interest of America's future architects in the design potential of aluminum." Any U. S. school which is a member or associate member of the Association of Collegiate Schools of Architecture, or which has a Student Chapter, AIA, is eligible for participation. \$200 prizes will be awarded to winners in each of the participating schools, and a National Prize of \$5,000 will be given—\$2,500 for scholarship purposes to the winning student or group of students and \$2,500 for the winner's school.





We Recommend:

—The use of RETAINED PERCENTAGE procedure recommended by the American Institute of Architects, which states:

"Encouraging an expansion to private works, wherever possible, of such retained percentage procedures as now prevail on federal public works.

"Such retained percentages would be at the rate of 10% until 50% of the job is completed, after which there shall be no additional retainage, provided that the work has proceeded to the satisfaction of the architect and/or the owner."

In recommending the use of this RETAINED PERCENTAGE procedure the N. C. AIA Construction Industry Relations Committee suggests that "when a bonding company is involved it should also agree to reduction in retainage."

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URBAN DESIGN IN THE SOUTHLAND

Before the end of the year AIA Urban Design Seminars will have been brought to four AIA Regional Conferences in the Southern tier of states. Nicholas Satterlee, AIA spoke on the Southwest Washington (D.C.) Redevelopment Project at the Florida Regional Conference held March 15 in Gainesville. The Texas Regional Conference, held in San Antonio October 7-9 heard Vernon DeMars, AIA give an account of three of his UD projects in the San Francisco Bay Area.

Two weeks later, at the Gulf States Regional Conference in Dauphin Island, Alabama, Robert Geddes, AIA described the Philadelphia waterfront project and Donald Lutes, AIA described a grouping of UD projects in the Pacific Northwest. On November 15 Archibald Rogers, AIA of Baltimore will present to the South Atlantic Regional Conference in Atlanta a case study in urban design for his city. AIA staff member Paul Spreiregen participates in each seminar through presentation of a variety of illustrated reviews of urban design historic precedents and modern ideas.

By the end of November architects from Texas to North Carolina will have had the opportunity to witness and discuss this AIA program. In addition, Charles Blessing, FAIA, chairman of the AIA Urban Design Committee, gave a one-man presentation at the Ohio Regional Conference in early October. Other regions are encouraged to consider a UD program for their future seminars.



Delph HARDWARE & SPECIALTY COMPANY

MATERIAL SUPPLIERS

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Charlotte, N. C. Raleigh, N. C. Columbia, S. C. Greenville, S. C.



THE NOVEMBER 1963 SOUTHERN ARCHITECT

WARSAW PROFESSOR AT SCHOOL OF DESIGN

Dr. Zenon A. Zielinski has been appointed Associate Professor at the School of Design at North Carolina State for the academic year 1963-64. He is teaching a course on creation of structures to the fifth year students in the Department of Architecture.

Dr. Zielinski came to the United States from Poland in November 1962 as Visiting Scholar on a United States Department of State Grant, to give a series of lectures and to conduct scientific research at the Universities of Illinois and California. His research was directed toward ultimate strength in high shear reinforced concrete structures.

Dr. Zielinski has received recognition as designer of many progressive structures. Among his outstanding achievements are economical prestressed girders of 30 to 200 feet span, single and multistory industrial and apartment buildings, prefabricated long span shells, bridges, assembly halls, aluminum shells, etc. He has also written a number of publications, including a book, on structures. From 1950-62 he taught prestressed precast structures in the Civil Engineering Department of the Technical University in Warsaw. He also worked as Chief Designer in the Industrial Buildings Research and Typical Design Office in Warsaw. Many of his designs for economical prestressed girders and shells have been standardized and are now in factory production and in common use in Poland. Some structures have been adapted for use by other countries such as India, Tunisia, and Libya. Professor Zielinski has also won several competitions, awards, and annual prizes for the design of structures.

In addition to his teaching and research obligations at North Carolina State until the summer of 1964, Dr. Zielinski is available as a consulting structural engineer to the architects and engineers of North Carolina on special problems within the creas of his special and unique competencies.

NORTH CAROLINA STATE COLLEGE 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 N. C. State College 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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