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COVER STORY:
A dramatic mountain site, plus new restrictions on ridgetop design, were challenges for the firm of Dellinger/Lee Associates, architects for Buzzard Cliffs.

FEATURE STORY:
When is a beach house different from, say, a mountain house? And when are they similar? Five architects talk about the challenges of resort design in North Carolina and present examples of their work.

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OFF THE DRAWING BOARD:
Who's designing what, where in North Carolina, plus names and changes among the state's architectural firms.
Traditionally in concrete masonry, it has been difficult to get color and texture consistency within a single block, much less maintain it from one block to another. Yet the block specifications for the new R.J. Reynolds Tobacco plant in Tobaccoville, NC required that each of the over 1.8 million 8" equivalent units meet the same standards of uniform appearance plus high quality.

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Masonry Contractor—Snow, Jr. & King, Inc., Norfolk, Virginia
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Few states can claim such a wide variety of resorts as North Carolina. To the west are the mountains, where rustic cabins nestle into the hills next to championship golf courses and luxury houses; to the east are the beaches with their own distinct ambiances and their range of accommodations, from luxurious high-rises to one-family beach houses in the North Carolina vernacular style. And, of course, there are the state's lakes, which boast their own array of accommodations, and the Sandhills area, where famous golf courses are ringed with a variety of housing options.

A number of architectural firms in North Carolina have as one of their specialties the design of resort housing. While a beach house demands a type of design that may be somewhat different from, say, the requirements of a mountain-top condominium, most architects would agree that the underlying principle of any type of resort design is to maximize the site, be it oceanfront or situated on the 18th hole of a golf course.

The firms on the following pages have produced a number of resort designs and are eminently qualified to speak out on the design challenges they faced with each project.
John K. Boal, AIA, is the partner in charge of resort architecture for the Charlotte-based firm of Little & Associates.

He characterizes the present development of North Carolina's beach areas as fairly recent. "The action was very strong in Myrtle Beach, S.C., and that area for the past three years," he says. "Now the action is coming up to North Carolina. By this time next year, we'll have a number of large projects opening."

Boal says there is more emphasis than before on second homes rather than on building at a resort primarily for investment purposes. "It used to be vital that your resort project open at least by May, so that those clients buying there could reap the investment potential," he says. "Now, with more clients wanting second homes rather than investments, it isn't so important to open in May as it used to be."

In the past, Boal says, most resort designs—at least for larger condominium projects—called for the units to be stacked one on top of another, with each unit open to the ocean view. Now, however, design requirements have changed.

"There's more demand for a total panorama, up and down the beach in several directions rather than strictly a view out to sea," Boal says. "As a result, units are staggered and there's more creativity in the design."

Among the "hot" trends in beach design right now, he says, are pastel shades for interior and exterior design; fully equipped kitchens and bathrooms with whirlpools; swimming pools in addition to ocean access; and abundant storage for those who plan to make the residences their second homes.

"Rustic just isn't what sells anymore," Boal says. "And an absolute must, especially if you plan to rent out your home even once, is air conditioning, which wasn't always the case at the beach."

Boal's firm is being called upon to build less of the high-rise, oceanfront projects and more smaller, off-the-ocean developments, he says.

"The market has changed. Now there are a large number of golf courses being developed off the ocean, which calls for a smaller-scale development," Boal explains. "These are relatively cost-effective to design and build, because their scale is smaller and the major amenity—the golf course—is already in place."

He admits that controversy still plagues coastal development, especially on the subjects of how densely a property should be developed and what kind of setbacks should be required.

"I think what helps North Carolina is that we have coastal development guidelines in place," Boal adds. "South Carolina didn't have any guidelines when development began, and that has made a difference."

Loggerhead
Topsal Island, N.C.
Architect:
Little & Associates
Developer:
Nasekos/Mercer Development Co.


One hundred ninety units in four buildings.

Phase I will be a 60-unit building near the center of the site. Units range from 1 to 3 bedrooms. Exterior materials are synthetic plaster, clay tile roofing and insulated glass. Interior finishing is French Mediterranean. All units have views of both the ocean and the sound. Amenities include 3 swimming pools, spa and intimate gazebos on site; restaurant; children's play structures.

Loggerhead presented special challenges because the developers are particularly interested in preserving the environment of the island. To minimize the impact of the project on the land, buildings were placed at angles toward the ocean and designed with a 7-story center that steps down to 5 stories at each end.

In addition to exceeding the Coastal Area Management Act requirements, the development employs special lighting designed with the barrier island's famous loggerhead turtles in mind. Because bright lights distort the turtles' perception of the horizon and discourage them from coming ashore to lay their eggs, Loggerhead will use shield lights that produce no glare on the seaward side.
The Waterfront, completed in 1985, came about in response to Manteo's desire to redo its waterfront property. Town inhabitants, following America's 400th Anniversary Commemoration of the first English colony in the New World, voted to adopt a refurbishment policy for Manteo's historic district.

Developed by Renaissance Properties and designed by Ferebee Walters & Associates, the Waterfront is a 57,520-square-foot complex that combines retail space and residential condominiums with access to Manteo's Waterfront Park.

The project presented a number of design challenges. The first level had to accommodate parking for both residents and visitors while respecting a five-foot floodplain. The second level had to be for retail shops and restaurants, while the top two levels were to be exclusively residential. Because the town's tallest building—the two-story courthouse—was across the street from the site, the project could not be massive or the courthouse would be overshadowed.

Ferebee Walters also had to cope with a tight site and a host of new city building restrictions. As a result, the firm had to obtain a variance from the city so that access from the commercial level to the sidewalk below could be considered public. A 40-foot strip of land between the building and the waterfront park of Manteo had to be designated a federal park, with permission granted from the Department of the Interior.

The project is actually split in the middle so that there will be a view from Manteo's main street through the project to the waterfront park. Access to the commercial level is provided via this middle terrace, with parking for 69 cars provided in a below-ground parking deck. The 34 condominium units on the top two levels consist of two- and three-bedroom units that have sold in the $90,000 to $150,000 range.

The Waterfront, which had a total cost of $5 million, uses exterior materials wood siding and the brick of the nearby courthouse, making the project blend in with its setting. Projecting decks help to break up the project's exterior mass.
The Wainwright house, designed by Frank Harmon for a Durham-based marine biologist and his family of five, is a vacation home intended one day to be a permanent one. Therefore, the client requested that exhaustive structural studies be conducted before the house was built to ensure it would withstand the strong winds common in the resort area. Those studies dictated a design of glass-reinforced concrete over Southern yellow pine framing that allows the house to withstand winds of up to 120 miles an hour.

The five-acre site also affected the house's design. Because the owner is keenly interested in preserving the environment, he requested that none of the site's numerous bay laurel, sweet bay, and live oak trees be cut down for the usual beach-house decks; instead, sunning takes place on a rooftop terrace. The house is situated on dunes that have been documented as being 5,000 years old, and is placed on the site so it takes advantage of southeastern breezes from the sound.

Because the owner requested easy maintenance, interior materials are tile floors and walls of fir plywood and glass. There is a two-story living room with access to decks on three sides of the house, a large master bedroom suite, and four children's bedrooms with moveable partitions allowing the rooms to be expanded into two larger rooms later on. Large casement windows in the rooms allow for cross ventilation, and mean that air conditioning is necessary only on the hottest days.

Cost of the house was about $180,000.

Photography by: Gordon Schenck
Jay DeChesere, AIA, says that during the past year or so, “Approximately 42 percent of the projects designed by Synthesis can be classified as resort, while 80 percent of those built by Telesis Ventures (a construction company owned primarily by Synthesis and its architects) are in that category.”

Sizes have ranged from $150,000 to more than $1 million; the range for residential projects on Figure Eight Island, Bald Head Island and Wrightsville Beach—where Synthesis and/or Telesis Ventures do most of their work—is generally between $200,000 and $400,000 for a single-family residence.

DeChesere calls resort architecture “a greater challenge and more of a joy” than many forms of design. He attributes this to the fact that resort architecture is meant to serve people who are building away from the community in which they normally live. “The constraints, preserves and traditions that people have chosen to succumb to are relaxed and the traditional and eclectic styles are left behind,” he explains.

Added to the client’s willingness to explore new and different design ideas is the fact that most resort homes are built in areas the client is unfamiliar with, especially when it comes to construction, materials and so on. Therefore the client is much more open-minded when it comes to designing a house for that environment.

DeChesere says perhaps the biggest challenge of resort architecture is to design a home that will work well in both a beautiful and a harsh environment.” Salt-laden air, horizontal rains, blowing sand and extremes of sun from sunrise to sunset are the norm,” he points out. “A pallet of resistive materials and an inventory of successful defensive details are tools that must be used daily.”

He sums up the challenges of resort architecture by saying that “while on the one hand, the architect tries to capture views and open up the architecture, its protection from the frequent high-wind and storm conditions are of utmost importance.”

Tinney Residence
Wrightsville Beach
Architect: Synthesis
Developer: Owner

Two-story residence made up of 2,826 heated and cooled square feet, along with a roof deck and several screened porches. Cost of the project was $245,000, not including land, site improvements and dockwork.

Materials: wood framing on masonry foundations; cedar shake roof, stained cedar shake siding; stained cedar or fir trim, wood windows. Interior finishes include heart-pine flooring.

The owners built the house themselves. They were particularly partial to traditional Wrightsville Beach cottage or summer-house style which has disappeared over the years: typically, a two-story home surrounded by porches and appendages covered with extended roofs, with cedar left to weather gray. Double-hung windows were typical, as were high ceilings as the residences were rarely air-conditioned.

The owners asked that the design include an old window from the Lumina Pavilion, a historic recreation facility on the nearby oceanfront that was razed years ago.

One of the major challenges in the design—and one typical of such projects—was that the lot orientation is to the northeast, a “cold” direction that subjects the lot to the worst weather conditions in both winter and summer. Therefore, the house became a series of overlapping squares arranged on a diagonal, which turned the major exposure to the east or southeast. This helped shelter the house from the wind as well as opened it to the morning sun.
Furman, who has designed resort housing for both the mountains of North Carolina and Lake Norman, near Charlotte, says that such projects have at least one thing in common.

"The view is what you’re selling," he says, "and the client always wants to maximize that while getting as many living units on the site as possible."

He admits that meeting the client’s demands isn’t always easy. "You have to come up with creative ways of achieving the objective."

In one resort project, that meant pulling the units back off the immediate waterfront so that more units could be built while still affording each one a waterfront view. "We created a sort of yard in front of the project that gave everyone access to the water and other amenities, while actually giving us more buildable room," Furman says.

For a mountain resort project, Furman used another approach: he stacked townhouses over flats, creating two quadruplexes that have maximum views while fitting into the somewhat rugged terrain.

Fairway Villas
Blowing Rock
Architect: David Furman Architecture
Developer: Fairway Villas Joint Venture (Richard Hechenbleikner & Lat Purser & Associates)

Fairway Villas is an 8-unit, two-building condominium project in a popular mountain resort location. The site, bordered by a country club golf course and a well-traveled mountain road, has significant topography with a drop in excess of 20 feet from front to rear.

The owner requested that units have one covered parking space with covered access to the units as a response to the ever-changing and unpredictable climate.

The solution: two-story (conforming to a local height limitation of 35 feet) mid-entry building. Each unit is one-half flight of stairs either up or down from the parking level. Units are either 1,700 square feet or 2,350 square feet with major emphasis on entertaining areas and master bedrooms. Upper levels have vaulted ceilings and high glass. All units have access to the golf course through rear stairs. Materials of stone, shingle siding and shingle roof reflect the stately mountainous character of neighboring residences.

(Right) Fairway Villas overlooks a popular mountain golf course.
Four projects built: North Point; Harborwatch; Edgewater; and Portside. Two others, South Point and Stone Bluff, are scheduled to open either this year or next.

The four projects serve a different segment of the marketplace. North Point, completed in 1985, is a townhouse project of 31 units at 1,600—1,850 square feet. Prices were $150,000 to $175,000. North Point, which won a National Design Award from BUILDER magazine in 1985, was placed on a 6.8 acre peninsula so that unit's water view was maximized. Units are uniformly staggered to reinforce individual space in the sitting; each unit has a boat slip extending from a pier/gazebo with an elevated "crow's nest" viewing site. Construction materials: cedar shingles stained gray, bull-nose brick base with accent block, composition shingle roof.

Harborwatch consists of 42 units used as small "weekender" units, stacked three stories with views to the harbor. The design stagger the three-story pods into two buildings, creating a "V" shape connected in the middle with a gateway arch leading to the swimming pool and harbor. The floor plans maximize open living spaces and de-emphasize bedrooms. Square footage is 600-700; the units sold for $45,000 to $60,000.

Edgewater consists of 72 units on a very limited shoreline. This was achieved by overlapping the units. The overlapping concept, with all living rooms on the water (but only every other master bedroom), places two units in 40 feet for an average of 20 feet per unit, which meet the developer's water-view requirements. The units are open plans to maximize the square footage of 900 to 1,050 square feet. Exteriors are stained shingles highlighted with white trim and red-accented columns and doors. The upper floors have vaulted ceilings; the angled decks and staggered, offset configuration help fit the buildings to the site as well as maximize the view and the units' privacy. Units sold for $75,000 to $90,000.

Portside has 72 units on a limited shoreline. In order to give every unit a view of the water, a new site concept was developed. Instead of stacking and lining up the three- and four-bedroom units on the water's edge, the buildings were pulled back from the water, creating a semi-circular yard. The yard features a swimming pool, trellis, gazebo, grass and sandy beach. The units are stacked and staggered, with smaller units on top of larger units, townhouses on top of flats, and single decks on top of double-width porches. Building materials are stucco with wood trim, green tile accents and green composition roof. The units are 1,400-1,750 square feet and sold for $125,000 to $155,000.
North Carolina’s City Centers

What cities, both big and small, are doing to enhance the design of their downtown areas.

PLUS: Q&A

— An Interview With Daniel Urban Kiley, noted landscape architect.

Final Comments On Resort Architecture From Ligon B. Flynn.

One of Flynn’s specialties is resort architecture, both on the coast of North and South Carolina and in the mountains. He says there are some similarities when designing for the two regions, as well as some obvious differences.

“One thing about resort architecture wherever it is placed is that usually you are designing second homes, which call for much less formal living than a primary home,” Flynn says. "That tends to ease some constraints that you might otherwise feel."

However, designing form and interest into a beach house is often more important than including the same factors in a mountain house, Flynn explains. "A beach house tends to dominate its site, because most beach sites have no foliage and are very flat. So the house itself has to be interesting because it’s so obvious and so open on its site, whereas a mountain house may be surrounded by trees and rocks, which carry their own visual interest."

The lack of foliage on a beach site also means that beach homes must have exterior spaces, such as decks and terraces, designed with comfort in mind. "The bright sun and glare means that outdoor porches have to be sheltered in order to be used," Flynn says. "That can make a difference in the design."
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ARCHITECTURAL PHOTOGRAPHY

11
It is perhaps most impressive when viewed in the wintertime, its angular lines jutting out from the even-more-angular cliffs, its rooflines dusted with snow and its balconies overlooking a stark, snow-covered world below.

Dellinger/Lee Associates of Charlotte faced some unique design challenges when they were commissioned, back in 1982, to design a project known as Buzzard Cliffs, to be situated at Blowing Rock. For one thing, the project was to be built on one of the highest, most impressive sites remaining of a 700-acre tract on Grandfather Mountain that had been acquired by brothers Grover, Harry and Spencer Robbins in 1962. Thirty-six units would eventually be built on the site, at a height of 4,000 feet. Just the logistics of building on the property could be considered a challenge.

Then there was the requirement that Buzzard Cliffs be at once its own distinctive development, and complimentary to 20 years’ worth of adjacent resort property design. The Robbins brothers, who had been raised in the area, had realized in 1962 that two local golf courses were not sufficient to serve the growing number of visitors to the area, and so they decided to develop some of their property into a first-class, 18-hole golf course.

So popular did the course prove that the brothers soon expanded into other building. Their first phase of residential building, which consisted of 20 A-frame cottages selling from around $20,000 each, were built in 1963. Soon more elaborate, expensive houses were taking their places on the mountainside, and the 700 acres now known as the Hound Ears Club had become a luxury resort with full clubhouse facilities and a wide range of residential options.

By the time Dellinger/Lee was called in on the Buzzard Cliffs project, in 1982, the crying need was for a small group of condominiums that would appeal to those residents able to spend in the neighborhood of $200,000 and up for their Grandfather Mountain living quarters.

According to partner Don Lee, AIA, the firm decided to make the condominiums fit into, rather than compete with, their dramatic site.

“We wanted the architecture to be simple, so that the units would seem part of the mountainside, which was dramatic enough itself,” Lee says. “And, too, we were acutely aware of some of the negative publicity surrounding other heavy mountaintop development in the area.”

In fact, so controversial had some of the development become that a ridge law had just been passed that restricted how many feet above the natural ridge line a mountaintop building could rise.

Accordingly, Dellinger/Lee utilized a broken roofline for the first phase of five, 3,000-square-foot units at Buzzard Cliffs. Materials for the project are native to the area: stone, wood, cedar shakes. Extensive decking was used to provide “outdoor living space” for the units, which also feature dramatic floor-to-ceiling windows. Interiors are clean-lined and simple as well as luxurious, with massive stone fireplaces and other amenities.

Dellinger/Lee also designed phase two of the project, which consists of slightly smaller units of 2,280 square feet each. Construction has just been completed on this phase of Buzzard Cliffs.

Prices for phase one and two of the project ranged from $200,000 to $500,000 for a penthouse suite.

Continued on page 14
Dellinger/Lee utilized a broken roofline for the first phase of five, 3,000-square-foot units at Buzzard Cliffs. The site plan reveals how the condominiums conform to their rugged mountain site.

Buzzard Cliffs was designed not to dominate its setting, but to seem part of it.

Interiors of the condominiums are clean-lined and simple, featuring massive stone fireplaces and extensive use of wood and glass.
Centennial Gateway Construction Announced

Plans were unveiled recently for the construction of a major landmark, the "NCSU Alumni Centennial Gateway," at the intersection of Western Blvd. and Gorman St. in Raleigh on the North Carolina State University campus.

The gateway, which will serve as a portal to the NCSU campus from the southwest, will consist of a two-part sculptural metal wall and an orchard of 250 flowering crabapple trees.

The $450,000 project will be financed through a three-year fund-raising campaign sponsored by the NCSU Alumni Association.

Designers of the entranceway are Lawrence R. Zucchino and Walter R. Havener of Paton/Zucchino & Associates of Raleigh.

Planting of the orchard and construction of the wall should take no longer than three or four months, once funds have been raised for the project.
Shrine Temple Construction Underway

Construction is almost finished on the fifth largest shrine temple in the United States, located at 604 Daniel Burnham Way in Charlotte.

The Oasis Shrine Temple, designed by Little & Associates Architects of Charlotte, will serve more than 14,000 members from 46 counties in the Piedmont and western North Carolina.

The temple, which occupies 49,000 square feet including garden courtyards and covered walkways, contains a 1,448-seat auditorium adjoined by an 8,000-square-foot practice room. Also part of the design are a domed conference room, a skylit lobby, a computer room and administrative offices.

The building, which cost $3.5 million, is located on 13 acres overlooking I-85 at University Place in northeast Mecklenburg County. Projected completion date for the temple is August 1.

Charlotte Firm Receives Award

Wilber, Kendrick, Workman & Warren, architects, engineers and planners, of Charlotte has for the second time been recognized as the outstanding architectural firm in the Charlotte area.

The Charlotte Chapter of the American Subcontractors Association of the Carolinas first recognized WKWW in 1985 for this outstanding award. The recent 1987 award also went to Wilber, Kendrick, Workman & Warren. The firm was organized in 1956 and provides design services for institutional and commercial projects, including educational and religious facilities.

New Triangle Association Formed

The Greater Research Triangle Chapter of the International Facility Management Association has been formed to meet the needs of corporate, government, and health-care facility management executives. The organization's purpose is to help individuals responsible for planning, construction, and ongoing management of facilities throughout the Triangle and Triad areas exchange information and educational opportunities.

For further information, contact Logan Cassidy at Northern Telecom Inc., P.O. Box 13010, Research Triangle Park 27709 or call (919) 992-5228.

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* A High-Efficiency Heat Pump has a Seasonal Energy Efficiency Ratio of 9 or higher.
Bank Operations
Building To Be Built
Little & Associates Architects, headquartered in Charlotte, is building a new 40,000-square-foot office building for United Carolina Bank in Greenville, S.C.

The bank, which is based in Whiteville, N.C., will use the building on Pelham Road for its Greenville operations.

The building will cost $2.3 million and will have two floors of 20,000 square feet each. UCB's Greenville city headquarters and a branch bank will anchor the first floor, while the second floor will be open to other tenants.

Projected completion for the building is late 1987, with occupancy expected beginning in January 1988.

Design Begins On New Synagogue
Dellinger/Lee Associates, Charlotte, has begun design work on a new synagogue for Temple Israel in Charlotte.

The new facility will be located in the northwest quadrant of Shalom Park on Providence Road in Charlotte.

Groundbreaking will take place in early 1988 with an estimated construction schedule of eighteen months.

Bank Office Completed in Charlotte
First Citizens Bank officially opened its new regional office in the First Citizens Bank Plaza in Charlotte at the corner of Tryon and Fourth streets April 6.

First Citizens will occupy approximately 50,000 square feet of space on the first three floors and a portion of the basement of the 23-story, 500,000-square-foot building. The building houses the bank's Charlotte main office and regional executive offices, including regional training and trust.

The $50 million Art Deco building was designed by Henningston, Durham and Richardson, Inc. (HDR) of Omaha, NB. Co-developers of the property were Little & Co. of Charlotte and International Development Co., Inc. (IDEVCO) of San Francisco, an affiliate of HDR. McDevitt & Street Company of Charlotte served as general contractor. The bank's interior decor was provided by Stuart Walston, Inc. of Wilson.

Continued on page 20
Raleigh Firm Wins 1986 Grand Award
Hunter Reynolds Jewell PA, Raleigh-based landscape architectural firm, has been awarded the 1986 Grand Award from the Associated Landscape Contractors of America for Crystal Park Palace in Alexandria, Va. Crystal Park is a two-acre urban park built over a multi-level parking garage in Crystal City. Developer of the project is the Charles E. Smith Companies of Arlington.

Charlotte Firm Changes Name
Ferebee, Walters & Associates, which has its headquarters in Charlotte, is changing its name to The FWA Group and opening a new office in Jacksonville, Fla.

The firm, which also has offices in Research Triangle Park and Hilton Head Island, S.C., has 27 registered architects, landscape architects and civil engineers and a total staff of 65.

The FWA Group was founded by S. Scott Ferebee in 1953, with Hershel Walters joining the firm as partner in 1954. Walters left the firm management in 1984, with Ferebee remaining as leader of 9 other principals in the firm.

The new Jacksonville office will be located in Enterprise Center, 225 Water Street, and is scheduled to open sometime in June. Managing principal of the office will be Arnold Prato, formerly head of Arnold Prato Associates of Jacksonville.

Raleigh Firm Designs For Florist
The interiors division of Quick Associates PA of Raleigh has recently completed design and construction management on the north Raleigh location of Fallon's Florist.

Fallon's Florist, which has several locations in Raleigh, opened its north Raleigh store in late March at Six Forks Station. The new store features a glass entry, recessed tile and angled walls for maximum visual presentation of merchandise.

Asheville Firm Designing Pack Place
Spaceplan/Architecture, Interiors & Planning of Asheville was chosen recently to design and guide construction of the Pack Place Education, Arts and Science Center in that city.

The Pack Place center will be the core of the Pack Plaza Rehabilitation project being carried out by the Schneider Nine group of Ann Arbor, Mich.

The project will involve adaptation of the old Pack Memorial Library Building and the Plaza Theater. The goal of the restoration will be to house the Asheville Art Museum, the Health Adventure, the Colburn Memorial Mineral Museum, a 450-seat performing arts theater, the Community Arts Council, displays by the Historic Resources Commission and offices for Pack Place.

The project is expected to cost around $9 million.

Spaceplan, the second-largest architectural firm in Asheville, was founded in 1977 by principal Carroll Hughes, AIA. The firm has been involved in a number of renovations of historic buildings.

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New National Prize Established

The American Society of Architectural Perspectivists (ASAP), based in Boston, and the Van Nostrand Reinhold Company Inc. of New York have announced the funding of an annual award for excellence in architectural perspective drawing. The prize, established in the name of Hugh Ferriss (1889-1962), a master draftsman of the American metropolis, will be awarded this fall.

The first recipient will be selected from among national entries in the Architecture in Perspective II competition sponsored by ASAP. The award will carry with it a cash stipend of $500.

Judges for the competition will be Hugh Newell Jacobsen, FAIA; Carlos Diniz, professional delineator; and artist/educator Richard Ferner, AIA. Submissions from architects, illustrators, delineators and students nationwide are welcomed, and should be received by June 30. For more information on entry details, contact ASAP, 320 Newbury Street, Boston, Mass. 02115.

Continued on page 24
The North Carolina Vietnam Veterans Highway Memorial.
Vietnam
1959-1975
We Learned Of Life—
They Learned Of Death.
For Us It Was
The Six O’Clock News—
For Them It Was Reality.
Our Passion Was Success—
Theirs Was Survival.
We Forget—
They Can’t.

58,000 bricks in a corbeled circular wall 12’ high and 680’ long will memorialize
all the Americans who died or were missing in action. A 90’ long stone monolith with a waterfall behind it
will house the 1607 bricks. One hundred single stem river birches will symbolize each county
and will line the circular walk approaching the memorial.

LIONEL NESBITT
PHILLIPS, JR

1607 handmade North Carolina bricks will memorialize those from our state who died or were
missing in action.

The Vietnam Veterans Leadership Program and the Brick Association of North Carolina are proud to sponsor
this Memorial to our Vietnam Veterans. We hope that North Carolina’s architects will send a
TAX DEDUCTIBLE CONTRIBUTION TODAY to help complete it in November.

For information or to make a tax free contribution, write: Vietnam Veterans Memorial Highway, PO Box “VET” Winston-Salem, NC 27114.
For information about corporate contributions or veteran affairs and activities, write:
Vietnam Veterans Leadership Program, 704 North Cleveland Street, Winston-Salem, NC 27101.
(919) 723-2821  (919) 724-9288
Huntanar Awarded 1987 Pella Prize

Michael Huntanar of Fayetteville, a third-year architecture student in the School of Design at NCSU, has been awarded the 1987 Pella Prize for his design project, "International Corporate/Manufacturing Headquarters."

The prize consists of a $1,000 travel scholarship.

Huntanar's project was a 600,000-square-foot manufacturing, research and administrative center planned for the Research Triangle Park.

The competition, sponsored by Pella Window and Door Co.'s Raleigh offices, was open to all NCSU architecture students. Judges were five North Carolina architects: NCSU Professor Roger H. Clark, FAIA; Wesley McClure, AIA, of McClure-NBBJ in Raleigh; Arthur R. Cogswell, FAIA, of CHR Associates in Chapel Hill; Marley P. Carroll, FAIA, of Odell Associates in Charlotte; and Robert P. Burns, FAIA, head of NCSU's architecture department.

Design Firm Awarded Contract

Perry and Plummer Interior Design of Raleigh and Wilmington has been retained by Eastern Standard Insurance Co. of Raleigh to design their company offices, including space for Lawyers Title of North Carolina; Lumsden, Hale Ltd.; and Capital Land Investment Co.

Firm Receives IBD Award

Dellinger/Lee Associates in Charlotte recently received an award for outstanding design in the category of adaptive reuse from the Carolinas chapter of the Institute of Business Designers. The award was given to the firm for its design of the interior of 600 South College Street in Charlotte, a registered historic property originally used as an animal feed store and now converted to offices.

Interiors Contracts Awarded to Firm

The interiors division of Quick Associates PA in Raleigh has been awarded contracts for interior design and construction management of two VIP Formal Wear stores. The stores are located at North Hills Mall and at Crabtree Valley Mall in Raleigh. Tony Lineberry, AIA, will be project architect and designer.
New Firm Formed
In Winston-Salem
Thomas H. Hughes, AIA, formerly of
Calloway Johnson Moore PA, has
opened his own firm, Thomas H.
The firm will operate out of quarters
at 1001 S. Marshall St., Suite 10, in
Winston-Salem.

Names and Changes
In N.C. Architecture
James H. Boniface, an associate of The
Freeman-White Associates Inc. of
Charlotte and Tampa, Fla., has been
appointed a member of the 1987 AIA
Education Policy Task Force, which is
responsible for reviewing and updating
the AIA Comprehensive Education
Policy every three years. Boniface, who
recently joined Freeman-White, re­
ceived his bachelor’s and master’s
degrees of architecture at the University
of Virginia. He has served on the facul­
ties of Auburn University and Kent State
University’s schools of designs, and
recently received an award in the 34th
annual P/A Awards program, sponsored
by Progressive Architecture magazine,
for a Freeman-White-sponsored de­
velopment plan in Cleveland, Ohio.

E. Clay Elder is the new director of
the Retirement Housing Design divi­
sion of Little & Associates Architects in
Charlotte. Elder, who received his
bachelor’s degree in architecture from
the University of North Carolina at
Charlotte, has six years of retirement
design experience and has worked
with more than $56 million in projects.
Continued on page 26
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☐ On time
☐ Within budget

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Jim Walter Companies

Fouad Nashed, AIA, has joined the Winston-Salem firm of Hammill-Walter Associates Inc. as project architect. He was formerly with CTJ&D Architects in Houston, Texas. He received his bachelor’s degree in architecture from the School of Fine Arts in Cairo, Egypt, and his master’s degree from the University of Texas in Austin.
Linda Jewell, a partner in the landscape architecture firm of HunterReynoldsJewell in Raleigh, has been named chairman of the department of landscape architecture at Harvard University. She is the first woman to head an academic department at the Graduate School of Design in the school's 50-year history.

Fibermesh increases concrete's natural ability for lasting integrity.

Plastic shrinkage cracks generally pass through the entire slab and form planes of weakness permanently lowering the integrity of the structure.

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Concrete should be designed to perform to the high degree of which it is capable. The addition of Fibermesh Fibers with their unique secondary reinforcing capabilities is a necessity for all quality concrete.

Benefits of secondary reinforcement

<table>
<thead>
<tr>
<th>Features</th>
<th>Fibermesh</th>
<th>Wire Mesh</th>
</tr>
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<tbody>
<tr>
<td>Reinforces against plastic shrinkage crack formation</td>
<td>Yes ✓/ Yes ✓</td>
<td>No</td>
</tr>
<tr>
<td>Holds cracks together</td>
<td>Yes ✓/ Yes ✓</td>
<td>Yes ✓/ No</td>
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<tr>
<td>Reinforces against impact forces</td>
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<tr>
<td>Reinforces against shattering</td>
<td>Yes ✓/ No</td>
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<tr>
<td>Reinforces against abrasion</td>
<td>Yes ✓/ No</td>
<td>No</td>
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<tr>
<td>Reinforces against water migration</td>
<td>Yes ✓/ No</td>
<td>No</td>
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<tr>
<td>Rust proof</td>
<td>Yes ✓/ No</td>
<td>No</td>
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<tr>
<td>Corrosion resistant</td>
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<tr>
<td>Minimum required concrete cover</td>
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<tr>
<td>Tensile strength yield - ksi</td>
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<tr>
<td>Always positioned in compliance with codes</td>
<td>Yes ✓/ No</td>
<td>No</td>
</tr>
<tr>
<td>Safe and easy to use</td>
<td>Yes ✓/ No</td>
<td>No</td>
</tr>
</tbody>
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Gerald T. Quick, AIA, of Quick Associates in Raleigh, recently spoke to members of the National Association of Convenience Stores about state-of-the-art construction techniques. He appeared as part of a regional training program for association members held in Atlanta. Quick Associates has designed the prototype stores for Fast Fare convenience stores for the past 15 years.

Six Associates Inc. Architects, Engineers and Planners, with offices in Raleigh and Asheville, has named Marshall B. Roberts, AIA, as chairman of its board of directors. Other officers are Robert E. Turner, president, Harold D. Garren, vice president and assistant secretary; R. Marshall Fields, secretary; and W. Travis Childs III, treasurer.

Barry A. Parks, AIA, has joined Hammill-Walter Associates Inc. in Winston-Salem as project architect. He received his bachelor's in architecture degree from the University of Houston and was previously project architect for CTJ&D Architects in Houston.
Commercial tolerances can be tricky, even for experts like yourselves, and mistakes are costly. Pella Window and Door's North Carolina Commercial Division is represented by professionals John LeNoir and Reid Saunders. John in the western part of the state, and Reid from Raleigh eastward. These two men are Pella experts who are trained in every aspect of commercial window and door application and design. As you know, Pella is constantly adding products to retain its position as quality leader in the commercial window industry. Among these additions is a new series of Pella windows designed specifically for your commercial users. Reid and John are on call always in your market, with the best updated information on all Pella products. Available to help you early with your planning and design. Don't hesitate.

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