FLEXIBILITY BEGINS WITH

STEEL

Flexibility is our cornerstone and has been since 1911 in serving markets across America and throughout the world. We built our reputation on satisfying a wide diversity of service requirements, providing fabricated steel for a broad variety of structural applications—from small commercial buildings to modern high rises, heavy industrial installations, bridges and nuclear power plants.

Our staff of engineers, draftsmen, estimators and technicians provide a full range of technical and advisory service. Now, with our new branch office in Raleigh, N.C., we're committed to working even closer with you to assist with your specific structural design needs, providing professional attention every step of the way.

Regardless of your project size—large or small—you can rely on the standard of excellence, reliability and dedication to service that we remain known and trusted for. Write or call today for a copy of our company brochure.

For flexibility of application, think structural steel.
For flexibility of service, think Southern.

SOUTHERN ENGINEERING COMPANY
STEEL FABRICATORS
“Little Pittsburgh”

Corporate Offices
3015 Wilkinson Boulevard
PO Box 34609
Charlotte, NC 28234
(704) 399-8331

Raleigh Branch Office
1304 Paddock Drive
PO Box 51304
Raleigh, NC 27609
(919) 872-3229
It’s only natural
to consider David Allen Company a valuable source of information. With sixty years of experience, we welcome the opportunity to provide you with technical information, specifications, product recommendations or budget prices on tiles, terrazzo, acoustical, resilient flooring, special flooring, marble and movable partitions. Give us a call at 919-821-7100.

DAVID ALLEN COMPANY
P. O. BOX 27705 • RALEIGH, N. C. 27611 • 919• 821-7100
TEXASGULF CHEMICALS COMPANY HEADQUARTERS
RALEIGH, N.C.

ARCHITECT:
G. MILTON SMALL AND ASSOCIATES

GENERAL CONTRACTOR:
WILLIAMS REALTY AND BUILDING CO.

MASONRY CONTRACTOR:
J. D. GREEN JR.

Photography by Joann Sieburg-Baker
COVER STORY


FEATURES

15. An Architect as Mayor. Interview with Charlotte’s Harvey Gantt.

DEPARTMENTS

18. Off The Drawing Board.

Cover Photography by Joann Sieburg-Baker.
Photography by Brian Shawcroft
In 1978, the Wake County School Board decided that renovation was needed at the Apex Middle School. It retained Shawcroft-Taylor, Raleigh architects, for what seemed to be a small, straightforward job.

What followed in the next five years—and what appears likely to continue for the next year or so—offers a case study of how a small project can evolve into a major one, how an architect must sometimes tell a public body that the project it envisioned is not possible under state law, and how, when a school board listens to an architect's counsel, a community's pride can be bolstered and the educational environment for its children can be improved.

Through a phased project, the Apex Middle School is being transformed from a hodge-podge collection of six buildings into an efficient campus featuring the latest in school design and construction.

The process began in September 1978 when the school board asked Shawcroft-Taylor to design a media center for one of the middle school's existing buildings. The firm's initial investigation determined that what the board had in mind was not possible.

The building involved was constructed in 1924, and "we determined the amount of money they were planning to spend was more than 50 percent of the value of the entire building," recalls H. Clay Taylor. "A state statute requires that if a renovation involves spending 50 percent or more of a school building's value, the entire structure has to be brought up to code. That was impossible to do with this building."

"You would have spent more than the board's entire budget bringing the building up to code," adds Brian Shawcroft.

By Gaylord Shaw
The school board's first reaction was, "Do we want to put up a separate media center on this site . . . or should we buy another site?" and relocate the entire campus, Taylor says. "They modified our contract to have us do an investigation of all the old buildings on the campus and whether they could be replaced."

Besides the 1924 classroom building where the board had wanted to add the media center, the eight-acre campus had another classroom building, a cafeteria, an older frame building which served as a shop, a new music building and a gymnasium.

After its investigation, Shawcroft-Taylor proposed that the board consider a phased program to replace the oldest buildings—without disrupting the school's daily operation and without moving to another location.

Acquiring another site would be expensive "and the local people liked the school where it was" near the center of the community, Taylor says.

"There was an emotional attachment," adds Shawcroft. "Some of the

Drawings (right) depict the phases of the project at Apex Middle School. Media Center (interior shown in photo below) was Phase 1.
HOW IBM WILL SAVE $420,000 ON ITS POWER BILL.

When IBM decided to locate a new manufacturing and development complex in Mecklenburg County, it was looking for ways to make the facility as energy efficient as possible.

That's why IBM asked us to work with its technical specialists from the early phases of planning to completion. But when the potential energy savings were totalled, it surprised both of us. In fact, the estimated annual savings on power bills are over $420,000 from pre-conservation building designs. And for making its facility so energy efficient, IBM has earned a citation from the Southeastern Electric Exchange as the most outstanding example of energy efficiency in the industrial sector in 1984.

Of course, every business can't make such large savings. But no matter how old or how new your business may be, how big or how small, chances are you can save on your power bill. And we can help.

To find out how, call or write James B. Rickard, General Manager of Energy Services, Duke Power, P.O. Box 33189, Charlotte, NC 28242. 704-373-4669.

DUKE POWER
We've got programs to help you save.
When Tax Considerations Replace Income Considerations, You Need a Waddell Personal Financial Analysis

Like so many other successful people, you’ve concentrated on building your career and income. Overall financial planning to provide tax and investment strategies, retirement funding, and other long-term financial benefits have been neglected. Waddell Benefit Plans, Inc. is in business to serve people like you.

Devising a Strategy

First, Waddell helps you ascertain your overall financial objectives through an informal, but extensive, personal interview. Our eventual recommendations reflect your financial capabilities, individual needs and interests, and expectations.

Waddell then provides a thorough analysis, contained in a comprehensive written report formulated with an in-house computer model. The report focuses on two major elements. The first is a projection of taxable income, cash flow, and net worth for the upcoming five year period—based on continuance of the status quo. The second element is a projection of the same items, based on recommendations that are compatible with your long-term objectives.

Implementing the Strategy

Equipped with this report of general recommendations, you are prepared to begin implementation of a specific financial planning strategy, which will probably include important investment decisions. This phase of your planning should be directed by a qualified securities firm, such as JenMar Securities, Inc., an affiliate corporation of Waddell Benefit Plans, Inc. Fees for planning services are based on the complexity of the case.

Making Your Money Work for You

If your ability to earn money has surpassed your ability to manage it effectively, phone us for more detailed information about a Waddell Personal Financial Analysis. It’s the first step in putting your money to work for you.
teachers had gone to school there as children, and finding a new site would have meant the school would have to be moved out of Apex.”

The board asked the architects to prepare a master plan. They did, and developed a scale model of the site to show how the proposed buildings could be located so that they could be constructed without interrupting classes.

In such a situation, a model is important, Shawcroft says, because “the average person can’t read drawings and won’t admit it.”

After studying the master plan and model, the board gave the go-ahead for the first phase: construction of a building for the media center and library. The 7,228-square-foot building features a bright, airy feeling inside, thanks in part to a large skylight incorporated into the design of the one-story structure. The cost, about $339,000, was $36,000 under the budget set by the board—and included the cost of preparing the master plan.

Next the board approved the second phase: construction of a 55,000 square
Simple exterior lines are featured in the classroom-administration building constructed as part of Phase 2 at Apex Middle School.

Foot classroom and administration building and an 11,800 square foot cafeteria, plus demolition of an existing building.

This phase, completed early this year, cost about $3 million and was accomplished without disrupting the school’s routine—even though students were attending classes only a few feet away.

In designing the first and second phases, the architects had to keep in mind one of the school board’s early directions: “There is also the possibility that the middle school site could become an elementary school in the future.”

They also had to cope with other changes. For example, the school’s enrollment increased from 700 to 900 between the first and second phases.

Flexibility is essential, Shawcroft observes, “to allow programs to change. This could become another kind of school in the future. You don’t want to lock yourself into a single function.

“Historically,” he adds, “the best buildings have changed functions many times.”

The third phase of the master plan calls for construction of a vocational building containing about 20,000 square feet and the conversion of the old cafeteria into a multi-purpose room. This phase is estimated to cost in the $1 mil-
In designing school buildings, Shawcroft says he considers function to be the most important criteria—"the way the program fits into the building and allows the educational process to take place."

The Apex buildings provide "the quality of light and space," he adds, as well as energy efficiency through passive solar features.

School officials need a building that is easy to maintain, and the designs for the Apex Middle School buildings accomplished that. "The library today is as spotless as when we finished it three years ago," Shawcroft says.

In working with public bodies like school boards, he notes, "you have to hit a happy balance" of finding a way to do quality buildings while dealing with the constraints of tight budgets. But, like many architects, Shawcroft sees more school work in his firm's future.

"We know there will be a need to build and replace a considerable number of schools," he says.

---

**Save Bucks and BTU’s!**

In developing housing for today’s market, you can’t help but be concerned about the long-term costs associated with energy and maintenance. Naturally, these considerations are going to play a vital role in the design, construction, and marketing of your multi-family housing. 

Binning’s Thermalized aluminum windows and sliding glass doors are designed to save energy without sacrificing style. And, long-term maintenance costs are almost nonexistent. These are savings you can measure in bucks and BTU’s.

With Binning’s, you can build attractive and comfortable multi-family housing that’s economical for your buyers or renters, and profitable for you.

For more information, contact: Binning’s P.O. Box 868, Lexington, NC 27292. Phone: 704/249-6161.

---

**SELLING YOUR SERVICES**

Competition for the good jobs is more intense than ever and a solid marketing effort is more important than ever.

Village Graphic Design specializes in the design and production of presentation materials, audio/visual programs, brochures, and associated materials for a wide range of firms. For full information call Roger Jennings or Henry Carrouth (collect) 919/929-0225. Suite 202-B 1801 East Franklin Street, Chapel Hill, North Carolina 27514.
Steel Industry
Rebounding

Editor's note: This is the first of an occasional series of articles on industries that work closely with architects.

Like many businesses, North Carolina's steel manufacturers and fabricators are looking for improved results in 1984.

Many in the steel industry say, though, that the outlook for 1985 is uncertain at best.

Because business is expected to pick up this year, many observers of the state's steel industry anticipate high prices this year.

Even some executives in the industry agree.

"If you look back at 1983, it was a good year for those buying steel," says one industry executive who asked not to be identified. "Prices were kept down because the number of jobs was down, and the amount of competition was high.

"In 1984, the profit scale is going to swing back our way. Another thing that will help us in 1984 is that it is an election year."

He feels that businesses benefit from the election-year concerns of politicians.

"We're not anticipating such a good 1985," he adds. "That's when everybody will be backing off their election-year promises."

North Carolina steel fabricators are looking with interest, though, at an anticipated increase in the amount of bridge construction in the state.

Southern Engineering of Charlotte is already gearing up for increased bridge business, and Greensboro-based Carolina Steel bought a bridge fabricating facility in Nash County recently from Peden Steel.

Carolina Steel officials say the purchase was based on the strong potential in the bridge market.

The company has 19 plants in the South, including fabrication facilities in Greensboro, Hickory, Winston-Salem, Colfax and Greenville, S.C.

Carolina Steel started bridge fabrication in the Nash County plant last month.

Steel executives point to projects like the replacement of bridges along Interstate 85 between Greensboro and Charlotte as an example of the work ahead. The new bridges will not have the dangerous center abutment found on the current bridges.

Recent federal and state studies indicated that 10,000 of the 16,000 bridges in the state are either structurally deficient or functionally obsolete.

Approximately $165 million will be spent in 1985 and 1986 on bridge repair in North Carolina, and state transportation officials think that could increase in the future as approximately $250 million becomes available annually for highway projects.

Charlotte-based Nucor Corp., a Fortune 500 company, is also looking for new types of business in the years ahead. Nucor's biggest line currently is steel joists and decking used in nonresidential buildings. Nucor supplies the steel for about 15,000 buildings a year. In recent years, it has become a producer of cold finish bars used in precision parts and grinding balls.

Nucor's latest product is a weather-tight, standing-seam roof.

"A lot of our future business will be dependent on new products," says Ken Iverson, Nucor president. "The standing seam roof is the roof of the future. Five years from now, 50 percent of all new roofs will be this type."

The steel skeleton of University Memorial Hospital, under construction in northern Mecklenburg County.

Photo by David Ramsey

Business prospects bright for 1984
IBM Charlotte Complex Wins Award of Excellence From Steel Institute

The IBM laboratory/manufacturing complex in Charlotte's University Research Park has been named a winner of the American Institute of Steel Construction's 1983 Architectural Award of Excellence.

Thompson, Ventulett, Stainback & Associates Inc. of Atlanta designed the facility. The firm's project manager, Ray C. Hoover, accepted the award at the institute's annual banquet in Chicago.

The judges, in selecting the complex as one of 13 winners honored in the competition, praised the "very, very fine detail" of the design. "It feels very corporate in nature," they said. "It is that client."

The IBM complex, located on a rolling and heavily wooded 1,300-acre site, includes a laboratory/administration building, two manufacturing buildings, a cafeteria, a warehouse and a central utility plant. The institute noted that all the buildings used structural steel systems, that the structural steel frame is exposed in many locations and that nearly 3,000 tons of structural shapes were used. Steel decks are used in the roofs and floor slabs and steel wall panels for building exteriors.

The institute also recognized these firms for their contribution to the construction of the facility:

Blount International Ltd., Montgomery, Ala., construction manager.
Owen Steel Co. of North Carolina Inc., steel fabricator.
Diamond Erectors Inc. of Concord and C.P. Buckner Steel Erection Inc. of Chapel Hill, steel erectors.
IBM Real Estate & Construction Division, Tarrentown, N.Y., owner.
Architectural Photography from a different viewpoint.
Allen J. Bolick Associates
P.O. Drawer 1559
369 14th Ave. NE 28601
(704)324-7056

Clemmer Bush Silks Abneherty
P.O. Box 1259
226 2nd St. NW 28603
(704)322-3403

Beemer Harrell Architects & Consultants
216 Union Sq. 28601
(704)322-3125

Ed Lumow Architects
316 4th St. NW 28601
(704)324-5445

James N. Sherrill Architect
409-B 4th St. SW 28601
(704)322-9077

Unifoir Design
P.O. Drawer 1787 28601
(704)327-9449

HIGHLANDS
Dennis DeWolf Architect
P.O. Box 1296
Foreman Road 28741
(704)326-3925

HIGH POINT
Allied & Mercer
115 S. Hamilton St. 27260
(704)395-4003

John Anderson Architect
114 S. Main St. 27260
(704)382-0563

C. Michael Austin
21 Room 491 27290
(704)345-3655

Wm. F. Freeman Associates
P.O. Box 2103
3960 Binkinwood St. 27261
(704)395-4051

Mays and Parks Architects
2185 Westchester Drive 27260
(704)395-2552

David B. Oden Architect
101 W. College Drive 27292
(704)343-6414

Dean L. Spinks Architect
3705 S. Main St. 27263
(704)493-4911

Daniel G. Winklesky & Assoc.
1362 Brookwood Drive 27260
(704)393-3151

Norman L. Zimmerman Architect
2315 Benthurk Drive 27260
(704)399-3515

JACKSONVILLE
Theodore J. Peters Architect
P.O. Box 818
401 Maplehurst Dr. 28541
(704)455-0615

JAMESTOWN
Martin A. Senell Architect
P.O. Box 137 27282
(704)434-8820

KINSTON
East Architects & Engineers
P.O. Box 731
Vernon Park Mall 28501
(919)523-0832

Warren E. Hargrett Architect
P.O. Box 1541
107 E. North St. 28501
(704)527-3551

John F. Hickman Jr. Architect
P.O. Box 1622 28501
(704)527-4112

LAURINBURG
Jordan Snowdon & McVicker PA
P.O. Box 716
600 S. Main St. #F 28332
(919)276-2618

Thompson & McVicker Architects
P.O. Box 1312 28522

LENOIR
Harold W. Hartley Architect
P.O. Box 591
201 Ballew Arcade 28645
(704)754-7275

LEWISVILLE
Nils F. Larson Architect
5100 Riverwest Road 27003
(704)995-3300

LEXINGTON
Paul T. Briggs Jr. Architect
70 10th St. 27242
(704)326-3200

LUMBERTON
Elizabeth B. Lee Architect
P.O. Box 1609 28358
(919)739-9460

Thompson & McVicker Architects
P.O. Box 351
310 E. 4th St. 28358
(919)739-0461

MARS HILL
S. Taylor Barnhill
P.O. Box Q 28754
(704)699-5330

MARSHALLBERG
John R. Valentine Architect
P.O. Box 38 28533
(919)729-2419

MONROE
J. Hugh Dickerson Architect
902 W. Franklin St. 28110
(704)623-8928

Cecil Hodge and Associate
1206 Curtis St. 28110
(704)293-2908

L.B. Smith & Associates
P.O. Box 291 28110
(704)329-3158

MORGANTON
Folger-Olson PA
1008 Evans St. 28695
(704)487-5441

Robert J. Peterson Architect
300 N. Green St. Suite 204 28655
(704)437-6564

Dodge & Associates
505 Oberlin Road 27605
(919)585-2806

Doggett Architects
1200 Hardmont Road 27609
(919)858-9679

Elliwood Design Associates
2315 Myron Drive 27607
(919)781-1083

Envirotek, Inc.
617 Oberlin Road 27605
(919)852-6698

L.R. Evans Architect & Assoc.
P.O. Box 3048
5500 Madison Road 27622
(919)782-4031

Fishel and Taylor Architects
3701 National Drive #218 27602
(919)782-3729

Karl Gaskins Architect
117 W. Park Drive 27605
(919)589-2600

Hager Smith-Huffman
P.O. Box 1308
300 S. Dawson St. 27602
(919)382-5547

Haskins & Rice Architects Plurs.
P.O. Box 638
253 Fairview Road 27628
(919)787-9731

Troy Herrin III AIA Architect
401 Oberlin Road 27605
(919)832-6741

Holloway-Reaves Architects PA
666 Wade Ave. 27605
(919)585-0300

Innovative Design
850 W. Morgan St. 27603
(919)383-6303

David V. Jones Architect
P.O. Box 10406 27605
(919)755-6119

Lawrence & Lawrence Architects
6 W. Martin St. 27619
(919)383-3150

Leland Associates PA
P.O. Box 10547 27665
(919)833-6439

Philip S. Letsinger Arch./Plan.
P.O. Box 3074
401 Oberlin Road 27605
(919)832-1229

Mace & Associates
P.O. Box 31562 27625
(919)782-7826

McClure & McClure Arch. & Plan.
509 Jones Franklin Rd. #250 27606
(919)851-8382

William Clyde McGee Jr. AJA
311 Blvd Drive 27609
(919)828-2300

Mckimmon Edwards & Hitch
417 N. Boylan Avenue 27603
(919)384-8401

Olsen Associates Inc.
P.O. Box 10666
1200 St. Mary's St. 27605
(919)834-0781

Piersen & Whitman Inc.
530 Madison Road 27622
(919)785-8300

Peterson Associates PA
3820 Merton Drive 27619
(919)382-4660

Planning & Design Associates
3514 Greenwood Ave. 27612
(919)781-9004

Peter 7 Padovan Assoc.
3200 Old Wake Forest Road 27609
(919)872-6305

Quick Associates PA
3132 Amagosa Drive 27608
(919)828-3321

Real Property Inv. Ramsay Assoc.
2300 Old Wake Forest Road 27604
(919)876-0304

Surupan Rojanatavorn
909 Merre Drive 27606
(919)833-7479
E

Robert E. Earhart, AIA
P. O. Box 3427
Greensboro, 27402
(919)323-3340

Alan R. Eaton, AIA
1030 Lake Wheeler Drive
Raleigh 27603
(919)839-5321

J. Stanley Fishel, AIA
3704 National Drive #218
Raleigh 27602
(919)782-3729

Robert C. Dellinger, AIA
3 Woodlawn Green #104
Charlotte 28210
(704)525-2825

Robert E. Siddens, AIA
P. O. Box 8306
Asheville 28804
(704)254-1963

Eric G. Flanagan Jr., AIA
P.O. Box 89
115 Young St.
Henderson 27536
(919)943-5312

William T. Doyne, AIA
111 Landmark Drive
Kernersville 27020
(919)525-6350

T. Edgar Fitzhugh, AIA
3136 Zebulon Road
Rocky Mount 27801
(919)444-3173

Marvin Y. Folger Jr., AIA
100 B Evans St.
Morganton 28655
(704)847-3411

Lew R. Flynn, AIA
225 S. Water St.
Winston-Salem 27101
(919)934-0660

William K. Foil, AIA
111 Landmark Drive
Kernersville 27020
(919)525-6350

George H. Ellingwood, AIA
P. O. Box 10681
2315 Myron Drive
Raleigh 27605
(919)781-1083

William D. England, AIA
371 E. 4th St.
Charlotte 28204
(704)372-2740

Robert H. Enskine, AIA
405 Biltmore Avenue
Greensboro 27401
(919)275-5371

Gary Francischi, AIA
1125 E. Morehead St. #202
Charlotte 28204
(704)541-4433

Henry R. Fox, AIA
P. O. Drawer 870
Waynesville 28786
(704)456-3639

Charles R. Francis, AIA
P. O. Box 1387
New Bern 28560
(919)684-3311

Phillip G. Freeman, AIA
214 W. Trinity Ave.
Durham 27701
(919)448-9331

Beverly L. Freeman, FAIA
800 Arrowridge Blvd.
Charlotte 28210
(704)333-6616

Michael M. Freeman, AIA
P. O. Box 5955
Asheville 28813
(704)534-5963

John W. Freeman, Jr., AIA
P. O. Box 2103
High Point, 27261
(919)888-4031

John R. Fryday, AIA
534 Laram Avenue
Charlotte 28204
(704)374-1833

Jr., AIA
127 N. Greene St. #200
Greensboro 27401
(919)378-9311

Joel M. Fanderlirk, AIA
127 N. Greene St. #200
Greensboro 27401
(919)378-9311

David F. Fureman, AIA
508 East Blvd.
Charlotte 28203
(704)332-2942

G

Harvey B. Gant, AIA
953 S. Independence Blvd. #55
Charlotte 28202
(704)334-6436

Scott Garner Jr., AIA
1531 E. Morehead St.
Charlotte 28204
(704)375-2888

Karl Gaskins, AIA
117 W. Park Drive
Raleigh 27604
(919)828-2560

Avis O. George Jr., AIA
607 E. Salisbury St.
Asheboro 27203
(919)852-1309

Robert E. Goldings, AIA
P. O. Box 561
Carborro 27510
(919)887-6757

Gary D. Giles, AIA
214 W. Rosemary St.
Chapel Hill 27514
(919)967-9437

William G. Green, AIA
2106 Campus Drive
Dept. of Faculty Planning
Durham 27706
(919)944-2541

Arthur D. Glaseer, AIA
2641 Nantucket Drive
Winston-Salem 27103
(919)725-1371

Bruce D. Glasgow, AIA
2645 Normandy Rd.
Charlotte 28209
(704)332-6686

Bill Brandon Glover, AIA
720 Summit Ave.
Greensboro 27405
(919)273-4982

Gary Glueck, AIA
P. O. Box 273
Rocky Mount 27802
(919)944-9566

George E. Guethin, AIA
505 N. Church St.
Charlotte 28202
(704)337-6398

R. Kent Goodby, AIA
2101 Emywood Drive
Charlotte 28210
(704)527-6340

Douglas A. Grant, AIA
Parkway Office Bldg. #4
Asheville 28801
(704)722-6439

Clinton E. Craven, AIA
500 Banner Ave.
Greensboro 27401
(919)275-6183

Tony Lloyd Gray, AIA
387 W. King St.
Boone 28607
(704)284-5153

Jack T. Gray, AIA
P. O. Box 15501
Charlotte 28218
(704)525-5483

Michael Greene, AIA
P. O. Box 2475
Winston-Salem 27101
(919)724-1504

Sammy Worth Greenwalt, AIA
119 Brevard Rd.
Charlotte 28202
(704)375-1001

Douglas E. Griffin, AIA
115 Elmore Drive
Durham 27712
(919)338-7426

George A. Griffin, AIA
3 Union St. S.
Concord 28025
(704)786-0181

Robert S. Griffin, AIA
Boston Way
Asheville 28803
(704)255-7853
<table>
<thead>
<tr>
<th>Name</th>
<th>Address 1</th>
<th>Address 2</th>
<th>City</th>
<th>State</th>
<th>Zip</th>
</tr>
</thead>
<tbody>
<tr>
<td>James L. Boot Jr.</td>
<td>700-B Smithdale Drive</td>
<td>Raleigh</td>
<td>27606</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>(919)753-5332</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vickie H. Branton</td>
<td>908 E. 2nd St.</td>
<td>Ayden</td>
<td>28535</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>(919)527-4112</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Richard C. Butler</td>
<td>306 E. 5th St.</td>
<td>Charlotte</td>
<td>28202</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>(704)372-8900</td>
<td></td>
<td></td>
</tr>
<tr>
<td>John Carlton Cable</td>
<td>1490 Lake Pine Road</td>
<td>Cary</td>
<td>27511</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>(919)782-8000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tony E. Carter</td>
<td>P.O. Box 3890</td>
<td>Wilmington</td>
<td>28401</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>(919)343-4647</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Jaw W. Chow</td>
<td>702-H S. Chapman St.</td>
<td>Greensboro</td>
<td>27403</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>(919)854-0126</td>
<td></td>
<td></td>
</tr>
<tr>
<td>J. David Christenbury</td>
<td>P.O. Box 728</td>
<td>Asheboro</td>
<td>27205</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>(919)625-6111</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mark Clayton</td>
<td>1010 W. 1st St.</td>
<td>Winston-Salem</td>
<td>27501</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>(919)725-1371</td>
<td></td>
<td></td>
</tr>
<tr>
<td>William R. Cole</td>
<td>P.O. Box 3232</td>
<td>Charlotte</td>
<td>28203</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>(704)333-8631</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Larry F. Cook</td>
<td>723 Coliseum Drive</td>
<td>Charlotte</td>
<td>28210</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>(704)523-4392</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chester Cummings</td>
<td>603 Webster St.</td>
<td>Cary</td>
<td>27511</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>(919)541-2081</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Jeff Delfoff</td>
<td>4206 Airlines Drive</td>
<td>Raleigh</td>
<td>27612</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>(919)834-0781</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Willie J. DeShields</td>
<td>4224 Castleton Road</td>
<td>Charlotte</td>
<td>28211</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>(704)334-6436</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Thomas P. Duffy</td>
<td>8001 Arrowridge Blvd.</td>
<td>Charlotte</td>
<td>28210</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>(704)333-8631</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Margaret P. Edwards</td>
<td>1 N. 6th St.</td>
<td>Wilmington</td>
<td>28401</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>(919)763-3371</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Clay Elder</td>
<td>407 Belwood Drive</td>
<td>Belmont</td>
<td>28212</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>(704)372-0116</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ricardo C. Farres</td>
<td>6001 Old Forge Drive</td>
<td>Charlotte</td>
<td>28211</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>(704)337-0116</td>
<td></td>
<td></td>
</tr>
<tr>
<td>James R. Ford</td>
<td>P.O. Box 220</td>
<td>Raleigh</td>
<td>27605</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>(919)982-1274</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Andrew Lawrence</td>
<td>514 N. Bloodworth St.</td>
<td>Raleigh</td>
<td>27604</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>(919)781-9004</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lyman W. Laughinghouse</td>
<td>509 Broughton St.</td>
<td>Wilson</td>
<td>27893</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>(919)995-9193</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Todd W. Neal</td>
<td>5641 Cleveland St.</td>
<td>Raleigh</td>
<td>27605</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>(919)847-8000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sara Louise Oldenburg</td>
<td>403 Laurel Hill Road</td>
<td>Chapel Hill</td>
<td>27514</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>(919)964-2130</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Teresa Otis-Dugan</td>
<td>1233 N. Church St.</td>
<td>Rocky Mount</td>
<td>27801</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>(919)977-9031</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Richard D. Parry</td>
<td>1107 Sumter Drive</td>
<td>Monroe</td>
<td>28110</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>(919)827-8201</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bobby W. Patterson</td>
<td>1728 Carolina St.</td>
<td>High Point</td>
<td>27290</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>(919)274-3554</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Charles C. Pierce</td>
<td>1196 Hillary Circle</td>
<td>Charlotte</td>
<td>28210</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>(919)472-9900</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Philip R. Pihlaja</td>
<td>P.O. Box 1109</td>
<td>Durham</td>
<td>27702</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>(919)976-0203</td>
<td></td>
<td></td>
</tr>
<tr>
<td>John E. Ramsey Jr.</td>
<td>201 D. Dewey Lane</td>
<td>Raleigh</td>
<td>27609</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>(919)837-2294</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Richard J. Reiman</td>
<td>20 Enterprise St.</td>
<td>Foundations Office</td>
<td>NCSU</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Raleigh</td>
<td>27605</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>(919)377-0750</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lewis C. Riley</td>
<td>P.O. Box 153</td>
<td>Raleigh</td>
<td>27602</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>(919)936-7444</td>
<td></td>
<td></td>
</tr>
<tr>
<td>J. Michael Robbins</td>
<td>638 3rd Ave. Drive SE</td>
<td>Hickory</td>
<td>28601</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>(919)568-0800</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gary R. Robbins</td>
<td>Route 2 Box 193</td>
<td>Asheboro</td>
<td>28802</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**MEMBERS**

- Louis H. Ashby Jr., AIA
- 4332 Totten Road
- Charlotte 28211
- Joseph N. Boaz, AIA
- P.O. Box 951
- Highlands 28741

- Robert E. Self
- 165 Pinetop Rd.
- 27605

- Bobby Morris
- P.O. Box 3007
- Charlotte 28203
- (704)373-1066

- Douglas W. Stimmel
- P.O. Box 2475
- Raleigh 27602
- (919)724-1503

- Edward R. Strait
- 4526 Thorton Road
- Charlotte 28213
- (704)977-6451

- David S. Tate
- 1314 Pinewright Drive
- Raleigh 27606

- Theodore Venis
- 306 8th St.
- Charlotte 28202
- (704)372-8900

- Marion H. Ward
- 222 S. Church St.
- Charlotte 28202
- (704)777-5841

- Ron Weavil
- P.O. Box 10666
- Raleigh 27605
- (919)984-0781

- Gene Thomas Wells Jr.
- Route 7 Box 157-G
- Raleigh 27614
- (919)833-2536

- R. Keith Wilder
- 3105 Raymont St.
- Raleigh 27607

- Marvin L. Williams
- 2707 Dunhaven Drive
- Garner 27529

- Mark Willard
- 1934-141 Garnet
- Garner 27529
- (919)874-8000

- Roger L. Wray
- 901 Tanglewood Drive
- Cary 27511
- (919)787-3104

- Robert W. Wright
- 306 Brooks Ave.
- Raleigh 27607

- Joseph H. Young
- 638 Ortono Drive
- Durham 27713

**EMERITUS MEMBERS**

- Louis H. Ashby Jr., AIA
- 4332 Totten Road
- Charlotte 28211
- Joseph N. Boaz, AIA
- P.O. Box 951
- Highlands 28741

- Royal Boston Jr., AIA
- 2704 Boiling Run
- Charlotte 28211

- Southern Pines 28378
- Robert A. Botsford, AIA
- 1427 Fernhill Road
- Charlotte 28211
<table>
<thead>
<tr>
<th>HONORARY AFFILIATES OF NCAIA</th>
</tr>
</thead>
<tbody>
<tr>
<td>John W. Allcott</td>
</tr>
<tr>
<td>Chapel Hill 27514</td>
</tr>
<tr>
<td>John T. Caldwell</td>
</tr>
<tr>
<td>P. O. Box 5004</td>
</tr>
<tr>
<td>Raleigh 27606</td>
</tr>
<tr>
<td>Kern E. Church</td>
</tr>
<tr>
<td>1217 Trailwood Drive</td>
</tr>
<tr>
<td>Raleigh 27606</td>
</tr>
<tr>
<td>Carroll E. Mann Jr.</td>
</tr>
<tr>
<td>1412 Canterbury Road</td>
</tr>
<tr>
<td>Raleigh 27608</td>
</tr>
<tr>
<td>Claude McKinney</td>
</tr>
<tr>
<td>School of Design–NCSU</td>
</tr>
<tr>
<td>Raleigh 27506</td>
</tr>
<tr>
<td>Kenneth Ness</td>
</tr>
<tr>
<td>P. O. Box 14</td>
</tr>
<tr>
<td>Chapel Hill 27514</td>
</tr>
<tr>
<td>John A. Parker</td>
</tr>
<tr>
<td>219 Ransom St.</td>
</tr>
<tr>
<td>Chapel Hill 27514</td>
</tr>
<tr>
<td>Marshall L. Pickens</td>
</tr>
<tr>
<td>1500 NCSU Bldg.</td>
</tr>
<tr>
<td>Charlotte 28207</td>
</tr>
<tr>
<td>J. L. Pierce</td>
</tr>
<tr>
<td>909 Runnymede Road</td>
</tr>
<tr>
<td>Raleigh 27607</td>
</tr>
<tr>
<td>Sam Ragan</td>
</tr>
<tr>
<td>The Pilot</td>
</tr>
<tr>
<td>Southern Pines 28387</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>HONORARY AIA MEMBERS</th>
</tr>
</thead>
<tbody>
<tr>
<td>R. Mayne Abright, AIA</td>
</tr>
<tr>
<td>100 E. Six Forks Road #200</td>
</tr>
<tr>
<td>Raleigh 27609</td>
</tr>
<tr>
<td>John L. Cameron, AIA</td>
</tr>
<tr>
<td>3726 Canley Ave.</td>
</tr>
<tr>
<td>Raleigh 27632</td>
</tr>
<tr>
<td>Mrs. Betty Howison, AIA</td>
</tr>
<tr>
<td>1339 Carr St.</td>
</tr>
<tr>
<td>Raleigh 27608</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>OUT-OF-STATE MEMBERS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Michael E. Bennett, AIA</td>
</tr>
<tr>
<td>1236 Geranium Crescent</td>
</tr>
<tr>
<td>Virginia Beach, Va. 23456</td>
</tr>
<tr>
<td>Larry James Bishop, AIA</td>
</tr>
<tr>
<td>309 Man-O-War Drive</td>
</tr>
<tr>
<td>Fort Mill, SC 29715</td>
</tr>
<tr>
<td>Wes Chapman, Assoc. AIA</td>
</tr>
<tr>
<td>Corrado Hall #6</td>
</tr>
<tr>
<td>Western State College</td>
</tr>
<tr>
<td>Guntun, CO 8123</td>
</tr>
<tr>
<td>Samuel S. Epperson, AIA</td>
</tr>
<tr>
<td>36 Three Mast Lane</td>
</tr>
<tr>
<td>Broad Creek Landing</td>
</tr>
<tr>
<td>Hilton Head Island, SC 29928</td>
</tr>
<tr>
<td>John D. Harvey, AIA</td>
</tr>
<tr>
<td>890 Beatty Road</td>
</tr>
<tr>
<td>Columbia, SC 29220</td>
</tr>
<tr>
<td>H. Thomas McDuflle, Jr., AIA</td>
</tr>
<tr>
<td>1010 Wisconsin Ave. NW</td>
</tr>
<tr>
<td>Washington, D. C. 20007</td>
</tr>
<tr>
<td>William C. Nichols, AIA</td>
</tr>
<tr>
<td>1784 Peachtree Road NW</td>
</tr>
<tr>
<td>Atlanta, Ga. 30309</td>
</tr>
<tr>
<td>Frank M. Tocken, AIA</td>
</tr>
<tr>
<td>306 Leighton Centre-Leighton</td>
</tr>
<tr>
<td>Hong Kong 99999</td>
</tr>
</tbody>
</table>

Every effort was made to compile a complete and accurate directory of NCAIA members. Any omissions and corrections will be published in subsequent issues.
Why business people like doing business with Southern National Bank.

The best advertising for a bank is its satisfied customers. If you don't find your type of business represented here, just call our marketing department toll-free at 1-800-672-9863, and we'll be happy to give you all the references you need.

COMPUTERS
“Southern National gives us the service that most banks seem to reserve for large corporations. And thanks to their support, we now have a solid reputation with our vendors.”

Wade White, President Computer Workshop Gastonia, NC

REAL ESTATE
“I consider myself a good producer, but Southern National is the mechanism that closes the sale.”

George Mason, President George Mason Realtor Gastonia, NC

COMPUTERS
“Southern National gives us the service that most banks seem to reserve for large corporations.”

Wade White, President Computer Workshop Gastonia, NC

PRINTING
“It’s very gratifying that even a small business like ours can deal on a first-name basis with our bank’s local board.”

Art & Donna Weber Owners Sir Speedy Printing Winston-Salem, NC

FUEL OIL
“When we tried to do business with others, it was almost like we had to prove we didn’t need them. And a lot of times they acted just a little slow. We never have that trouble with Southern National.”


REAL ESTATE
“I had no intention of doing business with Southern National, but after talking with them for just 15 minutes one day, I opened three accounts and financed a car.”

Ed Maxwell, Owner/Operator McDonald’s, Raleigh, NC

RESTAURANTS
“Southern National’s quick-decision policy gives us terrific purchasing leverage. We never have to pass up a good deal.”

Bill Allen, President Republic Alloys, Inc., Charlotte, NC

SCRAP METAL
“Southern National has totally eliminated the bureaucratic nonsense so customary in banking relationships.”

Bryan Davies, President Wengarich, Inc., Matthews, NC

SOUTHERN NATIONAL BANK
You can tell we want your business.
Harvey Gantt, an architect and urban planner who was elected mayor of Charlotte last November, says his professional training and experience has been invaluable in preparing him for his public and political life.

In an interview with the editors of North Carolina Architect, Gant urged that architects become more active in public service on the national, state and local levels.

Gantt, 41, a graduate of the Clemson University School of Architecture, received his master’s degree in urban planning from the Massachusetts Institute of Technology. A member of the firm Gantt/Huberman Associates in Charlotte, he served on the city council for seven years before his election as mayor.

Here is an edited transcript of the interview:

**Q.** How has your training and experience as an architect helped you prepare for the job as mayor?

**A.** I’m trained as an architect and a planner, and I suppose we tend to bring to local government a perspective on the physical environment and the relationship of the different elements—such as streets to housing to employment centers to the general forces that act on the urban environment.

I think someone with an architect-planning background has a unique advantage over someone with, say, a legal background who may have a strong understanding of ordinances but no understanding of how that relates to what might happen in the physical environment.

There is a better understanding with a planning background of how socio-economic forces affect the physical environment. . . . There is an ability to see more quickly than others the impact of certain kinds of policy decisions that may be socio-economic and not physical at all, but the impact on the physical environment may be substantial. I think that’s been the perspective I’ve offered in the seven years prior to this that I served on the city council.

**Q.** As mayor, how much time are you able to devote to your practice? I know they say the mayor’s job in Charlotte is part-time, but you seem to be on the go all the time?

**A.** I still get substantially involved in the design end of our firm. I have been doing much more in the way of client contact and promotional work, rather than being on the boards—I haven’t done that for some time. It’s hard for me to tell how much time it (the mayor’s job) is going to take. I spend Mondays totally with the city and a portion of Friday, but the rest of my schedule is with our firm—the balance of the week and lots of nights. . . .

There’s lots of politicking involved in mayoral duties. I get up at 5:30 in the morning, take a four-mile run and start my official day at around 7, with breakfast usually with somebody, so it’s a very hectic kind of day that ends around midnight.

**Q.** Looking at the profession, should architects get more involved in public service?

**A.** Substantially. I am a big advocate of that and have been for a long time. I believe we should do more nationally, on a statewide basis and certainly locally, for a lot of reasons. The reason I got into politics was that one year the AIA took on a number of issues through a series of task forces, and one of them that I headed dealt with planning. Harry Wolf was president at that time.

We can offer that unique perspective that I spoke of and bring it to the public’s attention if you decide you are going to get into the political arena. Often we’ve been reluctant to do that because of our clients and the kinds of things that may have hindered us.

I’ve always said architects are less potent than lawyers or, for that matter, the medical profession as a professional body, but we have much that we can offer to the public.

I think that as a result of that task force committee on planning, the planning process, way back in ’75, it did focus a lot of attention on our planning process here in Charlotte, and a sub-
stantial amount of the public support that has come to my campaigns has come as a result of the discussion of issues of growth management, planning, good urban design and things of that nature that architects can substantially speak to, and be listened to because people assume we ought to have a better part of the argument on that.

Q. I think you may have touched on the answer to this next question, but what is Charlotte's most pressing challenge in terms of urban planning? Is it growth management?

A. The real question is whether we are going to be in the position to accommodate the growth, or whether the growth is going to accommodate us. I want us to be making decisions now that anticipate substantial growth in this community, and be able to handle the growth that will come without substantially damaging the assets we have.

Our biggest assets are our neighborhoods, particularly those in and around and close to the center of the city. Charlotte is fortunate to have the kind of urban landscape that provides the diversity we have in and around our center, and at the same time, while we've got those great neighborhoods, the fact is that our downtown will one day have twice the employment we have right now, and building and preparing to get people to that central city without trampling the neighborhoods is going to be the question.

One has to have an understanding of transportation, and the land use related to that transportation, and some clear policy on how you make decisions as a mature city both with regard to growth and high density, as well as to the outer fringes of the city in terms of how you lay your infrastructure for the city of the future.
**Off The Drawing Board**

**Construction Underway, Completed on Projects in Raleigh, Charlotte**

Construction is underway or has been completed on several major projects in North Carolina. They include:

- The Texas Instruments Building in Highwoods Office Park in Raleigh. The 12,423-square-foot building was completed in October. Cameron-Brown Co.'s Raleigh office arranged $900,000 in financing with New England Mutual Life Insurance Co. Developer of the building was Highwoods Properties Co.; contractor was Davidson & Jones Co.; and architect was Envirotek Inc., all of Raleigh.

- The Six Forks Office Building at Six Forks Road and the Cliff Benson Beltline in Raleigh. Completion began in September on the three-story, 20,696-square-foot building designed for multi-tenant occupancy and developed by Six Forks Office Associates, a partnership comprised of C.E. Singleton and W.E. Jackson Jr. Contractor is Buildcon Inc. and architect is Leif Valand, both of Raleigh. Cameron-Brown Co. arranged permanent financing of $1,225,000 through the Berkshire Life Insurance Co.

- The Exide Electronics Corp. headquarters office building, a 30,000-square-foot facility located on 9.4 acres on Spring Forest Road at Green Road in Raleigh. Oxford Mortgage Co. of Raleigh arranged $1.6 million permanent financing for the Design/Build Group, a partnership. The building was designed by Shawcroft-Taylor Associates of Raleigh and built by Eskridge Construction Co. of Anderson, S.C.

- The Parkwood East Apartments located on Margaret Wallace Road in Charlotte. Construction began in October on the 12-building complex containing 128 one- and two-bedroom apartments. Contractor is John Crosland Co. and architect is Newman-Bower Archi-

tects, both of Charlotte. Cameron-Brown Co. arranged financing totaling $3,448,500 through the North Carolina Housing Finance Agency by the issuance of tax-exempt bonds. The project is insured by the Federal Housing Administration under Section 221 (d) (4) of the National Housing Act.

- The Park Hotel, a $15 million project located in the SouthPark area of Charlotte. McDevitt & Street Co., headquartered in Charlotte, announced it will serve as general contractor on the six-story, 135,000 square foot building with 200 guest rooms. The Haralson Co. of Atlanta will develop and manage the project which was designed by Archeon Inc. of Memphis. The hotel is owned by The Park Hotel Group Ltd., a limited partnership headed by Frank Haralson. Other participants include professional golfer Arnold Palmer, H.C. "Smokey" Bissell and John Harris. McDevitt & Street says it currently has nine major hotel projects underway across the country, involving 2,860 rooms, 2,3 million square feet of total space and contract amounts of over $136 million.

**New Kenan Center Set for Chapel Hill Campus**

Construction is scheduled to begin this spring on a major new building on the campus of the University of North Carolina at Chapel Hill to house the newly created Institute for the Study of Private Enterprise and to provide meeting, seminar, research and study facilities for many university-related activities.

Designated as the William F. Kenan Jr. Center of North Carolina, the five-story building, containing 60,000 square feet of floor space and featuring a blend of classical and contemporary elements, will be located near the Student Activities Center, which is now under construction.

O'Brien/Atkins Associates of Chapel Hill and Durham are architects for the project with Roger Clark serving as design consultant.

**Four New Associates at Ferebee, Walters**

Ferebee, Walters & Associates, with offices in Charlotte and Research Triangle Park, has named four associates to the firm. They are:

- Bryant A. Baker, who joined the firm in 1978 and is a project architect and computer systems coordinator.
- Paul D. Bonsall, a project architect with the firm since 1980.
- J. David Parke, a project architect who joined the firm in 1980.
- Bodil Vaupel, who joined the Research Triangle Office in 1983.

**O'Brien/Atkins Names VP Of Interior Design Group**

Robert A. Jones has joined O'Brien/Atkins Associates of Chapel Hill and Durham as vice president of its interior design group.

Jones previously was vice president/senior project manager of the interior design group of a St. Louis architectural firm, Hellmuth, Obata & Kassabaum Inc.
**Greenville Firm Designs Student Condo Project**

Dudley, Shoe & Hite, Greenville architects and planners, has completed design work on Ringgold Towers, an eight-story, 95,000-square-foot privately developed student dormitory adjacent to the campus of East Carolina University.

The Greenville project, scheduled for occupancy by December 1984, contains 171 one- and two-bedroom efficiencies designed to be sold as condominium units. Davidson & Jones Construction Co. of Raleigh is the contractor.

One interesting feature, according to project architect James G. Hite, is that the building "is sited to preserve several large oak trees that are incorporated into the design as a canopy sheltering an outdoor terrace and a ground level, glass enclosed community space."

**Brick Association Gives $5,000 in Education Aid**

The Brick Association of North Carolina has announced donations totaling $5,000 to three N.C. universities and a construction training organization.

N.C. State’s School of Design is receiving $2,000 from the association; the University of North Carolina at Charlotte’s School of Architecture $1,000; the N.C. A&T State University’s School of Architectural Engineering $1,000; and the Carolinas Construction Training Council (CCTC) $1,000.

The association, with headquarters in Greensboro, said the donations will be used for partial scholarships, assistance grants for visiting professors and guest lecturers, and to help purchase educational materials.

Marion R. Cochran, the association’s general manager, says the money was donated on behalf of N.C. architects and general contractors who received education or training in their professions from the institutions.

"These donations are a way of thanking the construction professional for using our product, as well as providing our educational programs with some needed financial assistance," Cochran says. "Our manufacturers have supported individual institutions for a long time. Now we are contributing as an association and we hope to do so for many years to come."

**Ahoskie Theatre Wins Revitalization Grant From Arts Endowment**

The National Endowment for the Arts has made a $10,000 grant to the Gallery Theatre of Ahoskie to employ Planning and Design Associates (PDA), a Raleigh architectural firm, to produce a design and feasibility study for revitalizing the classic vaudeville theatre in the northeastern North Carolina community.

Terry W. Alford, president of PDA, describes the theatre as "an important part of the architectural and cultural history" of the region. "The people of Ahoskie have been intent on preserving that," he says, and "with the prestige and commitment of the National Endowment for the Arts behind them, that goal will be within reach."

A local group, the non-profit Gallery Theatre Inc., working with PDA, already has raised more than $60,000 from local contributions, grants from the Z. Smith Reynolds Foundation and appropriations from the North Carolina legislature, according to Arthur Lee Wiggins, president of the Ahoskie Chamber of Commerce and a leader of the group.

Jean Sharp, president of Gallery The-
atre Inc., says more than 3,000 area citizens have contributed to efforts to revitalize the theatre on Ahoskie's Main Street.

PDA's Alford says the theatre is important architecturally because the man who built it in 1906, local businessman Richard Garrett, went to great lengths to study the work of the great theatre designers and incorporated their ideas into the structure.

"The theatre house is clearly Phoenixian in concept; however, the elegant ticket cage is reminiscent of the heavy Edwardian designs of architect Thomas Lambe," Alford says. "The acoustics rival those of the best theatres, and the ventilation system shows remarkable ingenuity."

**Atkins, Moser Address California Conference**

Representatives of O'Brien/Atkins Associates, an architectural firm with offices in Chapel Hill and Durham, were among speakers from five architectural and engineering firms at a recent national conference in San Francisco for research facility managers.

John L. Atkins III, president of O'Brien/Atkins, discussed predesign planning in his presentation entitled "Design Strategies for Research Build-

ings." He focused on the Microelectronics Center of North Carolina in Research Triangle Park, which his firm designed. The center’s president, Donald S. Bielman, also discussed with conference participants his experiences during design and construction of the building.

William D. Moser, an O'Brien/Atkins principal and the firm’s director of design, gave a presentation entitled "Planning R&D Facilities for Long-Term Flexibility." His talk examined six research facilities designed by O'Brien/Atkins.

In addition to the Microelectronics Center, recent projects designed by the firm include an IBM office building in Research Triangle Park, Hotel Europa, the Raleigh-Durham Airport Terminal "A" Building, and a manufacturing-administration expansion for Northern Telecom. Currently in design are the Computer Science Center and the Kenan Center at the University of North Carolina at Chapel Hill and manufacturing facilities in Alamance County for Honda Power Equipment Manufacturing Inc.

**Triangle Architecture Awards Program Set**

*Spectator* magazine in Raleigh is conducting its first Triangle Architecture Awards program "to recognize outstanding architecture in the Triangle area built since January 6, 1979."

Submissions will be accepted in three categories: Commercial/public; residential; and restoration/adaptive re-use. The jury will award as many or as few projects as it deems worthy. The jury is composed of three Washington, D.C., architects: George Hartman of Hartman Cox Architects, Jack McCartney of McCartney Lewis Architects, and Sara O'Neil-Manion of O'Neil & Manion.

To be eligible, architects and firms need not be based in the Triangle area, but the projects submitted for awards must be located in Wake, Durham or Orange counties and must be complete upon submission. Entry deadline is May 4, and winners will be notified by May 24. Winning entries will be displayed in a special exhibit to be mounted at various locations in the Triangle.

Architects located within the Triangle area can obtain entry forms from these
companies:

Raleigh—David Allen Co.; Duncan-Parnell; Carolina Builders; Cherokee Brick; and Raleigh Paint & Wallpaper.

Durham—Boyce Building Supply; Cal-Tone Paints; and Coman Building Center.

Chapel Hill/Carrboro—Carolina Carpet & Flooring; Energy Works; Fitch Lumber Co.; and Southern Sky Solar.

Architects located outside the Triangle area can obtain entry forms by writing Spectator Publications Inc., P.O. Box 12887, Raleigh 27605.

Ellis/Naeyaert/Genheimer Relocates in Asheville

Ellis/Naeyaert/Genheimer Associates, an architectural and engineering firm with commercial and industrial projects throughout North Carolina, has relocated its Southeastern division offices to 29 Ravenscroft, Asheville 28801.

The firm also announced the recent addition to its staff of John W. Gaddis, formerly of Knoxville, Tenn.

CONCRETE MASONRY... THE PROVEN BACKUP SYSTEM

- DURABILITY
- DEPENDABILITY
- COMPATIBILITY
- FIRE SAFETY
- COST EFFICIENCY
- ENERGY EFFICIENCY
- MAINTENANCE EFFICIENCY
- NOISE DETER-ABILITY

For information on structural backup systems for masonry veneers and why concrete masonry is the proven backup system, call or write:

THE CAROLINAS CONCRETE MASONRY ASSOCIATION
P.O. Box 7875
Greensboro NC 27407
Telephone (919) 852-2074

A NEW DIMENSION.

IT MUST BE JASON/PIRELLI

Insist on Pirelli: the original QD rubber flooring that has become the international standard of excellence for quality, beauty and durability.

Jason, the standard of excellence for service and reliability.

Jason Industrial Inc.
Fairfield, NJ
Local Representative:
Specified Construction Products
P.O. Box 45
 Apex, North Carolina 27502
919 362-6611
We’ll open doors for you, North Carolina. [automatically]

Since purchasing the Norton automatic door operator product line from Eaton Corporation in 1976, Keane Monroe automatic door operators and automatic sliding entrance systems have been installed in airports, hospitals, colleges and universities, retail stores and every type of public building throughout North Carolina. It makes good sense to specify Keane Monroe products because not only are the engineering, manufacturing and headquarters facilities located in North Carolina (you are cordially invited to visit our facilities in Monroe), but this close proximity assures quick and easy availability of warranty and after-warranty parts and service if needed. A strong network of servicing dealers has been developed which can be further supported by factory personnel.

Since acquiring the Norton automatic door operator product line, heavy emphasis has been placed on further product improvement and the development of new products and product innovation. The Series 7000 Sliding Entranceway is a complete package of automatic door operating equipment, doors and frames, all of which are built in our factory in Monroe. Series 4500 Overhead Concealed automatic operator for swinging doors incorporates the advantages of electrohydraulic door control in a clean, crisp package which mounts above the door out of sight. The new Series 830 passive infrared sensor provides motion detection without radiation.

All Keane Monroe swing door operators incorporate proven electrohydraulic control which was first introduced by Norton Door Closer Company in 1958. In its more than 26 years on the market, this design has proven unmatched for door control, adjustability and long life.

BONSAL TO MANUFACTURE SUPERIOR-BRAND PRODUCTS

W.R. Bonsal Co. has purchased the major assets of Portland Enterprises Inc., Charlotte, manufacturers and distributors of Superior-brand ceramic tile setting products.

The company says it will manufacture and distribute the Superior product line from its production facilities in Lilesville.

“We anticipate that this purchase will strengthen...”

Bonsal, with headquarters in Charlotte, now has 12 manufacturing facilities including the quartzite mining operation in Lilesville.

ASPHALT PAVING GROUP ELECTS NEW OFFICERS

W.E. Mangum, president of Raleigh’s C.C. Mangum Inc., has been elected president of the Carolina Asphalt Paving Association.

Also elected as officers and members of the trade association’s executive committee were N.D. Wilhelm of Rea Construction Co., vice president; W.F. Dedmon of Asphalt Paving of Shelby Inc., secretary-treasurer; J.W. Thompson Jr. of APAC-Carolina; W.W. Crowell of Crowell Constructors; Kermit Moser of Prime Constructors; and W.H. Vanderlinden Jr. of Asphalt Paving Co.

Corrections & Amplifications

An article published in the November/December issue of North Carolina Architect stated that Quincy Johnson Associates of Boca Raton, Fla., designed North Market Square, which recently opened in Raleigh. Thomas E. Mullinax Jr., president of Mullinax/Wash Architects of Charlotte and Greenville, S.C., advises that while Quincy Johnson Associates did the original concepts for the shopping center, Mullinax/Wash “was responsible for the bulk of that project including design, construction documents, specifications and construction administration, in a joint effort agreement with Quincy Johnson Associates.”
DISCOVER the GYP-CRETE®

The Standard in Floor Underlayment for Residential, Office and Light Commercial Spaces

Contact your nearest Local Applicator:

Ivester Distributors
11615 Reames Road
Charlotte, NC 28213
(704) 598-9254

IDEAL for:

New Construction or Renovation

PRECAST
Steel or Wood Stud
Gypsum Wallboard

TRUSS PLATE INSTITUTE
3/4" Tongue & Groove Plywood
Parallel Chord Truss
12" Deep (Min. 24"
4 1/2" p.c. (Max.)

GYP-CRETE CORPORATION
After years of planning, new building opens in Raleigh

By Whitney Shaw

The new North Carolina Museum of Art had to survive several often bitter legislative battles, the selection of a controversial site, and a decision by the state’s Supreme Court before the first shovel of dirt was turned.

Today, some 10 months after the building’s opening and nearly 17 years after planning for a new museum started, the emphasis is finally on showcasing what many experts say is an extraordinary collection of European and American art.

And although some observers have criticized the building, the museum staff says simply, "It works."

The museum is home to some 6,000 objects dating from 5,000 years ago to the present. A substantial portion of the collection was purchased in the early 1950s with a $1 million grant from the state legislature, which was the first legislature in the country to set aside funds for a state art collection.

"The collection of the North Carolina museum is one of the best-kept secrets in the art world," museum board chairman J. Gordon Hanes told Carolina Lifestyle Magazine last spring. "We've never done what we ought to do to be known. We've never had the space or the budget or the staff. We haven't been a museum; we've been a storehouse. With the opening, we'll burst on the art world like a new Halley's Comet."

The $15.75 million building, located on a 164-acre site in west Raleigh, has 181,300 square feet of space, including 50,000 square feet of exhibition space. It was designed by Edward Durrell Stone and Associates of New York and Holloway-Reeves of Raleigh, which also collaborated on the design of the state’s legislative building in the early 1960s.

The design team was chosen by the museum’s building committee after 43 architectural firms were interviewed and after several museums in North America and Europe had been visited.

Edward Durrell Stone, who died in 1978, the year after construction started on the new museum, also designed the Museum of Modern Art in New York, the Kennedy Center in Washington, D.C., and the U.S. Embassy in New Delhi.

The new North Carolina museum was paid for with $10.75 million in state funds and $5 million in private contributions.

"We've been remarkably pleased with the response to the museum," says Patrick Sears, who was chief designer and head of the museum's department.
And state-of-the-art Computer Aided Design/Drafting services from Meta Vision is why. Our services optimize the performance of man and machine, enabling you to accomplish more in less time. You can devote more energies to creative versus routine tasks — just one way to stay ahead of the competition.

Whether your needs are for complicated floor plans, details, elevations, structural drawings, electrical, plumbing or mechanical layouts, Meta Vision is your answer. We can even change and update existing drawings...in half the time. For more details on CAD services, system sales, training and consultation, call or write today. 1200 N Main, P.O. Box 5943, High Point, NC, 27262, 919/889-4404.

of design and installation until about a month ago.

"So many things had been said negatively about the entire project, and it had taken so long, that those things begin to feed on themselves. And that was compounded by the fact that the museum was closed for so long (about eight months). But what we found as soon as the doors opened was that some of the most vocal critics did an instantaneous turnaround.

"Most of the people I've spoken with are very supportive. I think that's a substantial accolade to the building itself. In something like this, it's impossible to look at the building as something in itself. You must look at the art too."

Sears, who is now with Washington, D.C.-based George Sexton Associates, a firm that specializes in architectural and museum lighting and exhibition design, says the gallery space in the new building "works well."

"There's more flexibility than I originally thought there would be. There are a few gremlins here and there, but every building has that. One of the things we did while we were installing the collection was to cover up as much interior brick as possible because it's a difficult surface on which to view art."

Sears and museum staffers say most questions about the building are directed to its exterior design. They say some people like its lines and others seem to want something more traditional.

"It's aesthetically severe," says Sears. "One of the things that will help a lot is landscaping. Once people are inside the building, the reaction is quite different."

"...What we found as soon as the doors opened was that some of the most vocal critics did an instantaneous turnaround. I think that's a substantial accolade to the building itself."

Patrick Sears

"Extensive use mezzanines and balconies allows visitors to see several areas of museum at once (right)."
A typical comment seems to be, 'I never expected this inside.'

"That speaks well of the building and what we did with it. For example, the scale of the public areas is kept almost domestic rather than institutional like many art museums. The design attempts to make it a pleasant experience without overwhelming people. The lobby is really a very intimate place, for example, for a building this size."

And although some have commented that the museum's extensive use of balconies and mezzanines creates acoustical problems, others argue that the building becomes very easy to follow since so much of it can be seen at once.

Sears says one of the most difficult things in planning a new museum is to get a building that is interesting but doesn't overwhelm the art.

"We stand in the middle of a lot of museums I could name. The most successful working aspect of our new building is not what we originally thought it would be. We thought the gallery space would be problematical but the service areas would work exceptionally well. In reality, the gallery space is providing more flexibility than we thought."

Sears says, for example, that the museum's installation staff was able to partition some of the building's large gallery space into smaller, more intimate galleries.

"That can last five, 10, 20 or 30 years, or however long we want," Sears says. "When the needs change, we can simply tear down the partitions and redesign the space. One of the best things about the building is just the great amount of space. It's wonderful, but it's also true that you'll spread out to fill whatever space you have."

Before the museum moved into its new building, it was located in a renovated but cramped former Highway Division office building in downtown Raleigh.

Not only could just a small portion of the state's collection be shown at a time, the building lacked the necessary climate control system to ensure that temperature and humidity were maintained at levels suitable for the art works. There were also no educational facilities, even though the museum hosts school groups almost daily.

The new museum has nearly four times the square footage, including nearly twice as much exhibition and gallery space, as the old building. In addition, an education wing has a 272-seat auditorium. There's also an art reference library, a museum shop and restaurant in the new, four-level building.

The $15.75 million museum is located on a 164-acre site in west Raleigh.
There's Only One Perfect Brick. That's Why We Make So Many Kinds.

The architect for this office building wanted a rustic brick to soften the modern lines. He wanted a brick that would look good with colored mortar, that blended with the color of the native soil. He looked at lots of samples—only Borden's Early American measured up.

Perhaps there's just one brick that's perfect for your building.

Blue Ridge Office Building in Raleigh, NC design—just one with the combination of color, shape and texture you want. That's why Borden makes thousands of different kinds of brick. Chances are we make exactly what you're looking for.

Don't settle for less than perfect. Whatever brick you need, call us.

Borden BRICK AND TILE CO.

In North Carolina call 1-800-672-0081
Outside North Carolina call 1-919-596-8241