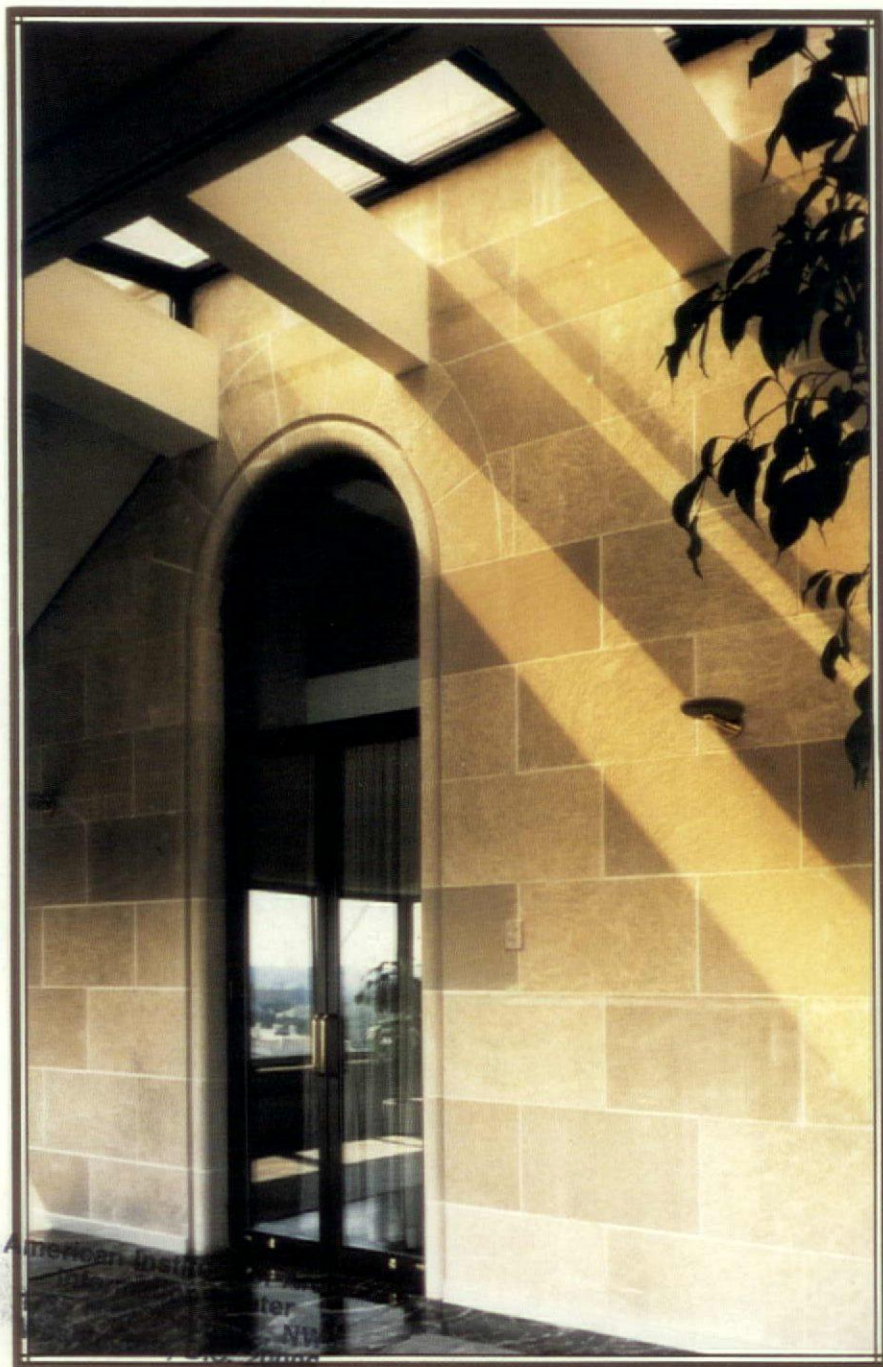


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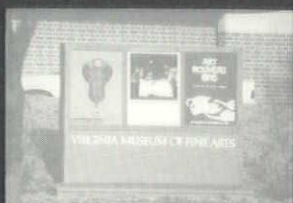
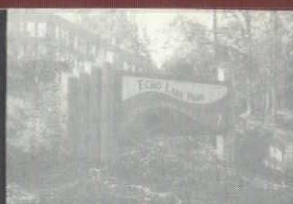
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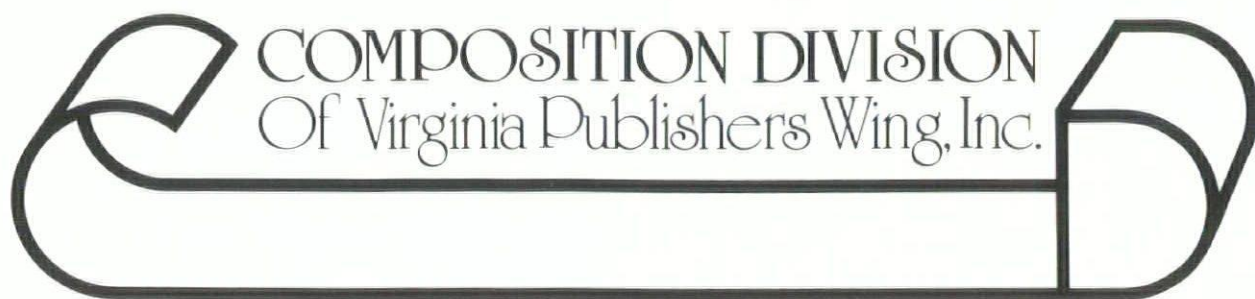
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COVER

Nature's own energy—SUNLIGHT—is shown streaming into the American Security Bank Headquarters Building in Washington, DC. VVKR, Incorporated was architect for the Renovation of the facility. The project is featured on page 26. (Cover photograph by Walter Smalling)

THE IMPORTANCE OF BEING ERNEST



architectonica

'Torre! Torre!'

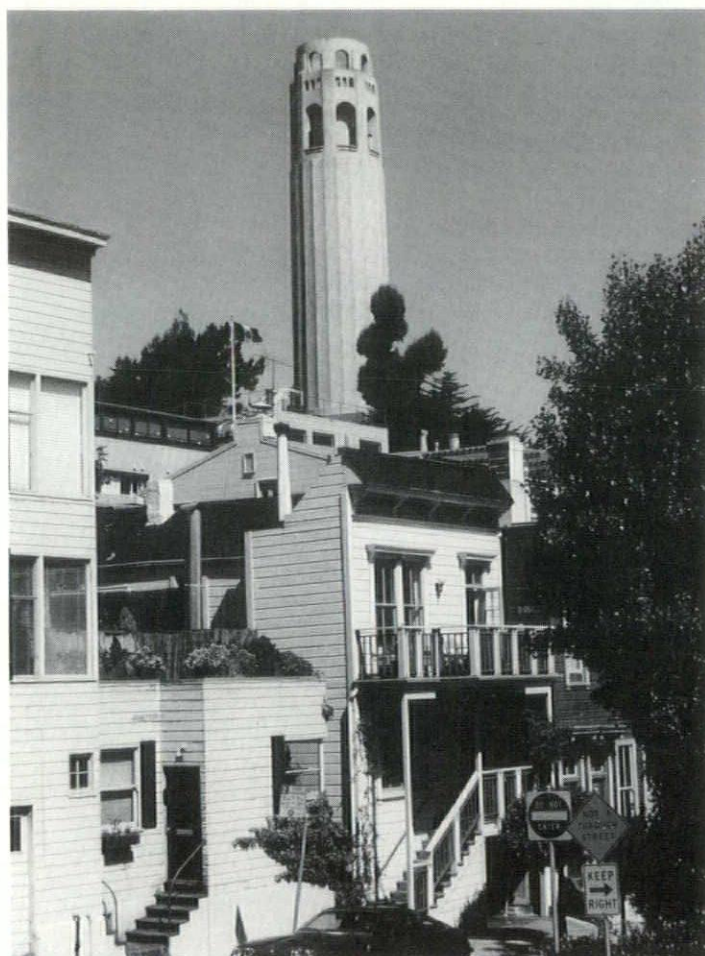
Some people visit Spain to see the bullfights. ("Tora! Tora!") Architects go to see the buildings and the Towers (torre): castle keeps, minarets, monuments, watch towers, campaniles, turrets, pinnacles, bellavistas, windmills, pendentive-supported domes, water towers, and even modern office towers. The country seems enchanted with vertical landmarks, of all architectural styles and from all phases of Spanish civilization. The Spaniards seem to know the value of these elements in the city. It set me to thinking about towers per se.

One need go no further than Washinton, D.C. to see how the obelisk that is Washington's Monument acts as an anchor for the surrounding city. It is a focal object, the summit of a gradual build-up of verticality. The Old Post Office Tower, the Capitol dome, and the Smithsonian turrets are subordinate elements popping out from the general level of rooftops, saving the cityscape from the monotony of the city's zoning laws.

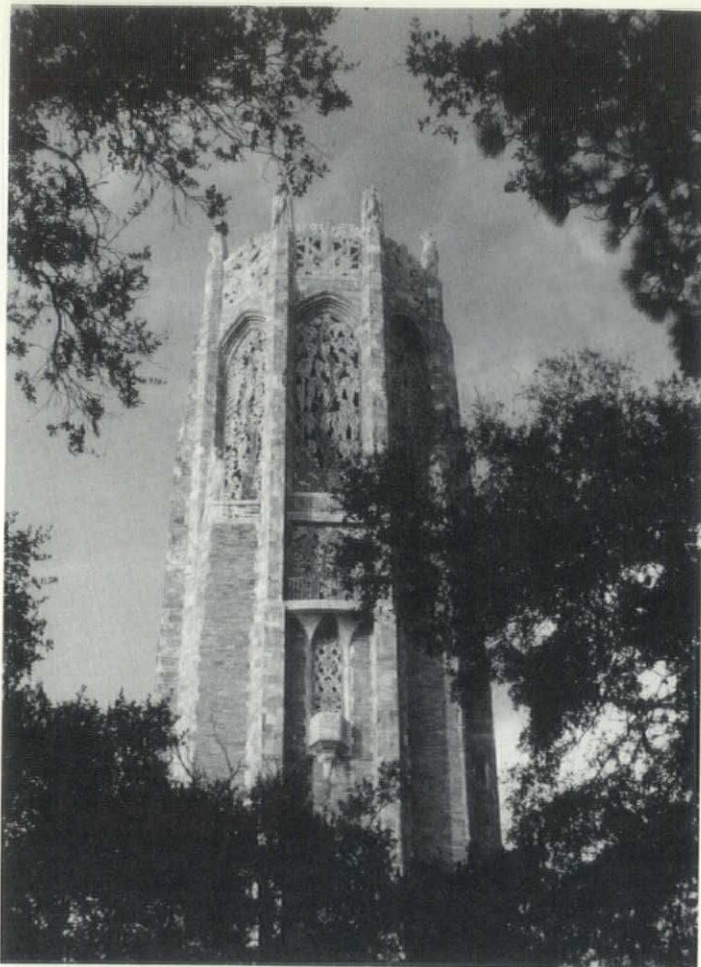
This monument also serves as a guidepost-in-the-sky. One can judge where one is by checking one's relationship to this towering object. Paris has its Eiffel Tower; London, Munich, and Montreal have their TV needles; San Gimignano and Bologna their medieval family keeps; Seville, Salisbury, Lake Wales, Fla. and Bartlesville, Okla. are each known for their handsome dominant towers which complement the landscape. The classical city after the Age of Chivalry was developed around a cathedral whose overpowering verticality could be seen for miles around. Our Western society's use of towers for architectural effect goes back to Carolingian times.



RICHMOND'S CHURCH OF ST. JOHN: Frontal tower sings out what and where it is.



COIT TOWER: A water tower which is a definite asset to the San Francisco skyline.



BOK TOWER: A memorial campanile in Lake Wales which sits on the highest hill in South Florida.



Bernard Goldberg's memorable twin "corncobs" in Chicago, functional and decorative.

Towers serve as the symbols of society and civilization. They are architectural statements about the power and presence of the state, or the importance of religion, or the authority of the seignior, or even the need for corporate identity. In our society, they more often than not represent an expression of our developed technology.

This week, I noticed a story in the newspaper about some citizens who live near Wolf Trap Park. They were publicly objecting to the plans of the Fairfax County Water Authority, who had announced their intention to erect some water towers thereabouts. "They look very commercial," was one comment. Nobody objected to having adequate clean water supplied to them via these self-same towers. The towers' appearance was what was objectionable.

Perhaps the symbolism of supplying water under pressure should always be decked out in a plain pale blue steel wrapper, but I doubt it. San Francisco's Coit Tower is a very functional water tower and it enhances the city. Those Wolf-Trappers point out the need to temper engineering with architecture in a civilized mature society.

The Port America Office tower, in Maryland across the Potomac from Alexandria, was designed by Philip Johnson. It's rather a handsome concept of a glass shaft, but it has angered many, many people. I think it is because it is such an illogical and commercial showboat concept unjustified by either location or economics. The arguments against it run to its negative impact on the Nation's Capital. It might well be that the real reason people find it objectionable is an unconscious aversion to the crass illogic it represents. At the same time, people in Prince Georges County find it irresistible, as it will help raise the County's image if built; (Each to his own taste", said Mrs. Murphy as she kissed her cow.)

So one might say that, as usual, if you stick your turkey neck above the log, or build a tower, somebody will come along and shoot your head off. Let's take those chances.

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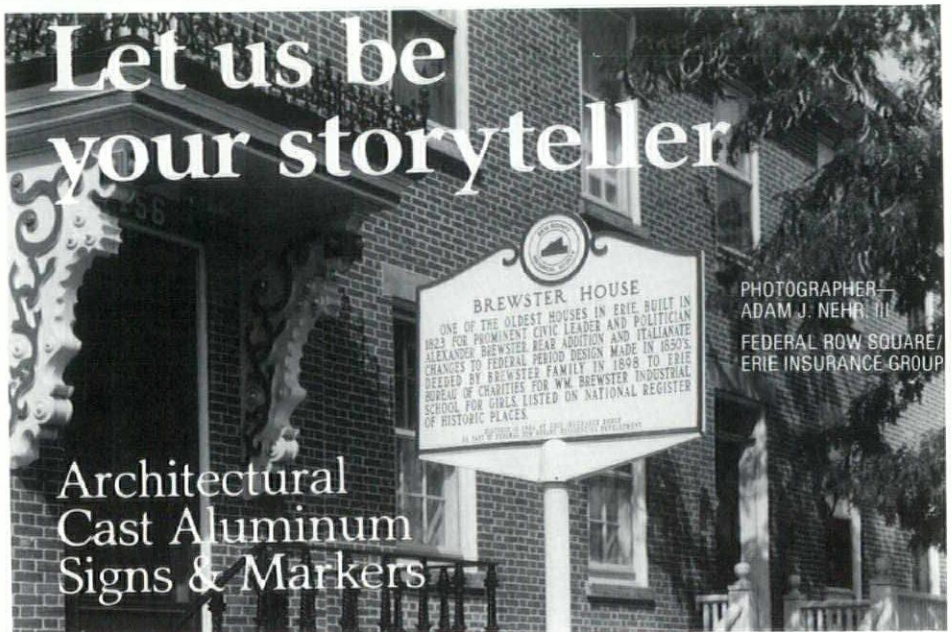
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<< COMMENTARY >>

by Marvin J. Cantor, AIA

The U.S. Tort System vs. Insurance . . .

The courts in the U.S. have succeeded in eroding the insurance protection customs that evolved over centuries of refining, improving, and helping to overcome many devastating results of catastrophic events. The major concept of insurance was the pooling of many small individuals' modest resources so that the infrequent major catastrophe which could not be satisfactorily met by the single individual, could be overcome successfully by the pool of resources. As long as the probability of such events was relatively low, and the materials costs to aid one in such an event was magnanimous and providential if it amounted to "hundreds of thousands of dollars," the system worked beautifully.

Then came the development of "pain and injury to the psyche as well as the physical body"; the loss of future earnings (and suddenly everyone

was a budding Pavlova, Einstein, Marconi or Edison) and "liability inflation." A hundred thousand dollars usually just about covered the first six months of legal fees. A million dollars was more in the area of a "minimal award." A hundred million dollars became the goal. And just last year, we reached the plateau of "billions" in court awarded damages.

And the cases being brought before the courts ranged from the sublime to the ridiculous—with no one ever knowing which might lose and which would be a winner.

The eventual development was what you would quite naturally expect—Insurance companies could no longer provide this catastrophic protection without raising premiums prohibitively,

and the old concept of protecting against the seldom occurring disaster with the modest resources of the many "went down the tube."

If you thought I was going to suggest a solution, you would be sorely mistaken—obviously this problem has been around for some time and could never be satisfactorily addressed. Witness Shakespeare's famous quote of "first let's kill all the lawyers," (in the 1600s) . . . to Charles Dickens' famous trial of Jarndyce vs. Jarndyce which lasted 10 years in England's Court of Chancery finally resulting in an inheritor's victory, and the bankruptcy of the estate to be inherited (in the 1800s). It's just that the problem now appears to be "completely out of control."

See you in Tahiti!

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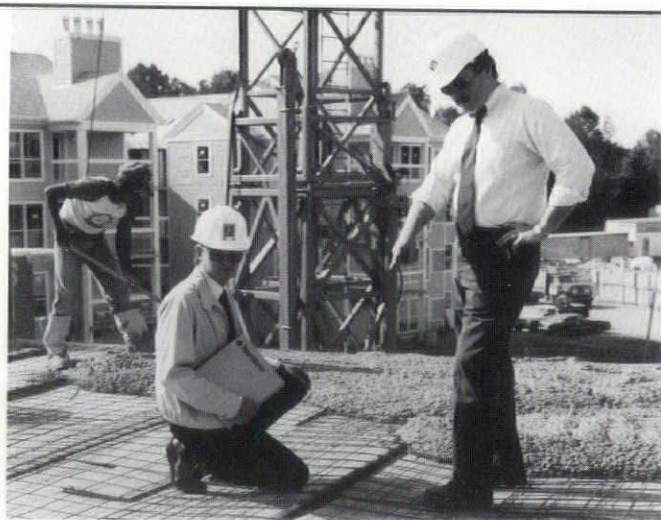
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Virginia Society, AIA 1986 Convention

There was something for everyone at the 1986 convention of the Virginia Society of the American Institute of Architects, October 17-18 in Richmond, including a warm welcome from Richmond's Mayor Roy A. West.

Trade exhibits, seminars on topics ranging from "How to Reduce Your Liability Insurance Premiums," to controlling your firm's growth, and the biennial Design Awards were well attended.

In fact, this year's convention, held for the first time in the state's capital city at the Richmond Marriott Hotel, drew a record attendance of 350.

Other "firsts" at Convention 1986:

- The exhibit hall was completely sold out, with 72 booths displaying the latest in building materials, products and services. "We had a waiting list for people wanting to rent the booths," said Delmar L. Dayton, convention chairman. A group of chapter presidents started a new tradition by presenting ribbons to the booths with the best displays.

- About 16 corporate sponsors contributed a total of \$12,000 in cash or services to help underwrite convention costs. The support from such companies as Philip Morris, which provided the graphics and contributed to the printing costs, and "Ye Hosts," provider of cocktails at the chapter party, helped defray costs putting convention finances well in the black.

Dayton noted that the convention committee "tried to run the convention in a business-like manner. Our goal was to model it after the national convention by having enough variety to interest everyone."

The program got underway Friday afternoon with Hugh Newell Jacobsen, FAIA, a world renowned architect, kicking things off with a dynamic speech and presentation. Jacobsen, whose architectural practice is based in Washington, DC, used slides to discuss some of his award-winning projects. He offered practical, how-to design tips as well as humorous comments on how to get along with clients. Jacobsen has won more than 80 awards for design, writes for various architectural magazines, and lectures extensively.

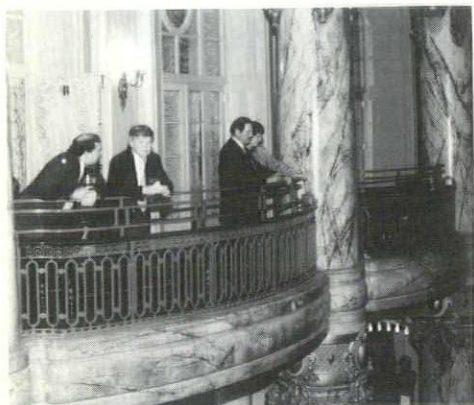
Next on the agenda was the presentation of the society's biennial Design Awards. (See separate story for information on winners.)

A reception honoring past presidents and celebrating the Virginia Society's 10th Anniversary was held Friday evening appropriately at a building offering architectural inspiration—the restored Jefferson-Sheraton Hotel. Dayton said many members commented on the impressive renovation of the grand hotel known for its interior columns, intricate moldings, sweeping staircase and gorgeous stained glass.

Saturday began with the annual business meeting. A new slate of officers was elected, with Robert A. Boynton, AIA, of Richmond chosen as president for 1987. An election was also held to select a Regional Director for the new AIA Region of the Virginias. Paul H. Barkley, AIA was elected to a three year term as the first Director for the new Region which becomes official December 5, 1986.

The rest of the day, convention goes concentrated on professional development by attending various seminars. One of the most popular was led by Stuart W. Rose, an expert in marketing training. Rose discussed how architects can plan and control the growth of firms and land more jobs by beating out-of-state firms.

Following the day-long seminars, members were ready for a change of pace Saturday evening. Festivities included the annual Noland Award



The newly restored Jefferson-Sheraton Hotel was the perfect site for the 10th Anniversary celebration honoring past presidents of VSAIA.



Past Presidents of the Virginia Society AIA were honored at a 10th Anniversary celebration at the Jefferson-Sheraton Hotel. Shown above, left to right, are: William C. Monroe, AIA; Samuel A. Anderson, III, FAIA; Frederic H. Cox, Jr., FAIA; Thomas A. Kamstra, AIA; Paul H. Barkley, AIA; John A. Marfleet, AIA; and Richard L. Ford, Jr., AIA.



DISTINGUISHED SERVICE AWARD—The three recipients of the VSAIA Distinguished Service Award for 1986 are shown receiving their certificates

from 1986 President Monroe—(l-r) David J. Gibson, AIA; J. Oliver Stein, AIA; and Richard L. Ford, Jr., AIA.

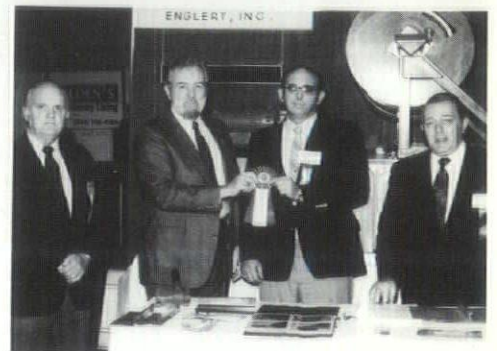
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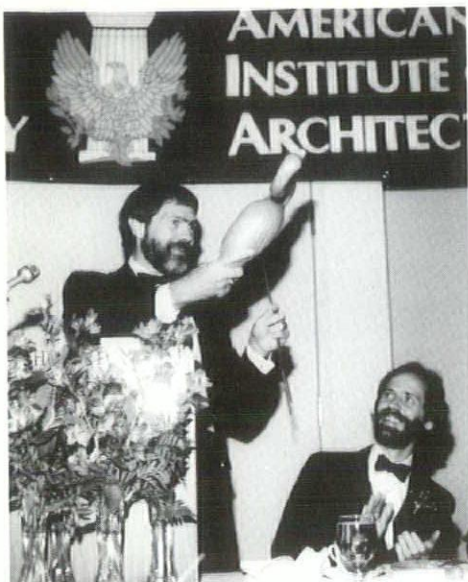
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For the first time, exhibit booths were cited by VSAIA. Shown receiving their ribbons from William C. Monroe and Jason A. Dickerson of the society, are representatives of the firms selected. Buckingham Greenery—First Place; Innovative Computer Solutions—Second Place; Sound Structures, Inc.—Third Place; and, recipients of a special award for the Most Innovative Display of a Product in Use—Englert, Inc.





Immediate past president, Dick Ford, admires his "appreciation gift" as 1987 President-Elect Bob Boynton applauds.

banquet and the first VSAIA Convention Host Chapter party sponsored by the James River Chapter at Richmond's new 6th Street Market-place.

The black-tie awards ceremony, held at the Richmond Marriott, began on a light note when immediate past president, Dick Ford was given his appreciation gift. Instead of the usual plaque, which Ford was known to disdain, he was given a beautifully wrapped box of plastic pink flamingos. "I'll have to add these to my collection," he quipped.

The William C. Noland Award, the Society's top honor for a member, went to Joseph N. Bosserman, FAIA, professor of architecture at the University of Virginia and former dean of the university's School of Architecture. The award is given for significant contributions to the advancement of the architectural profession.

OTHER AWARD WINNERS

- The Architectural Medal for Virginia Service—the top award for a non-architect—Sydney and Francis Lewis, founders of Best Products Co., Inc., and Paul and Rachael Mellon of Upperville. The Lewises and Mellons were honored for their continuing support of and interest in the arts, including architecture.

- Distinguished Service Awards—Richard L. Ford, Jr., AIA, of Glave Newman Anderson Architects, Richmond; David J. Gibson, AIA, of Johnson, Craven & Gibson, Charlottesville; and J. Oliver Stein, AIA, of Hayes, Seay Mattern & Mattern, Roanoke.

- Craftsmanship Awards—Charles P. Kalopodes of Richmond, a sheet metal craftsman with N.W. Martin & Bros., Inc.; and Norman T. Ronk of Roanoke, woodworker/cabinetmaker, for superior craftsmanship in the building trades.

The William C. Noland Award

The William C. Noland Award is the highest honor the Virginia Society of the American Institute of Architects can bestow.

The Award was established in 1967 by the Executive Committee of the Virginia Chapter to honor the memory of William C. Noland, FAIA, of Richmond, who was one of the founders of the Chapter, served as the second Chapter President, and was its first member to be elevated to the College of Fellows.

The Award is in the form of a bronze medal and a certificate, and is given:

1. In recognition of the achievement of architectural excellence of a specific building or group of buildings, or
2. For excellence in architectural literature or educational service, or
3. For significant contribution to the advancement of the architectural profession, or
4. For outstanding public service.

Not more than one award is given in any one year, and it is presented at an appropriate ceremony during an annual meeting of the Virginia society. Only members of the Society, past or present, may receive the award.



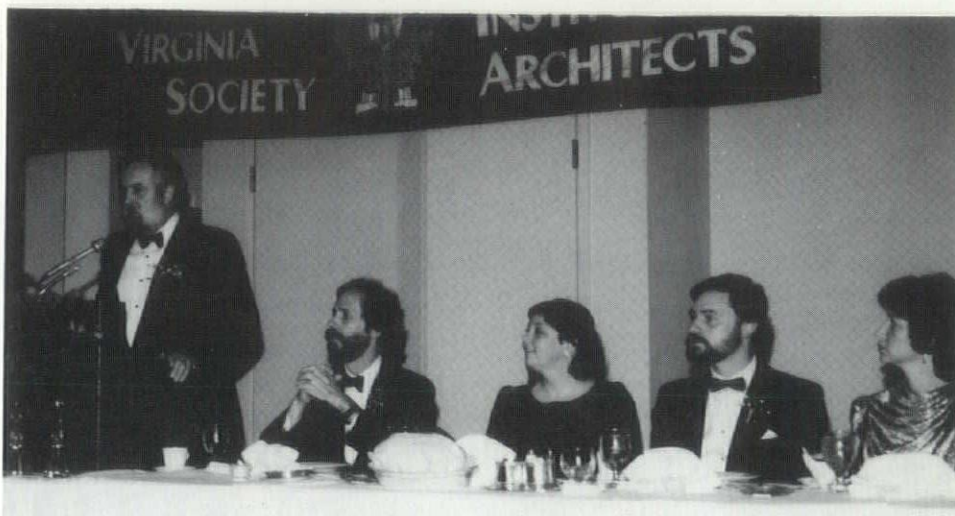
This year's recipient of the prestigious Noland Award, Joseph N. Bosserman, FAIA, is shown at right, being congratulated by 1986 president, William C. Monroe, AIA.

- Allied Professions Award—Dorothy Gillespie, Roanoke artist and sculptor; and Willaim T. St. Clair of the Richmond engineering firm of St. Clair, Callaway & Frye for his work in civil and structural engineering.

- A special award was given to the Washington-Alexandria Center at Virginia Tech for its contribution in conducting the design competition for the Virginia Center for Innovative Technology.

- The Member Cum Specialis Award—honoring spouses of deceased members held in high esteem by the Society, went to Mrs. Laszlo Aranyi of Virginia Beach and Mrs. Charles Justice of Richmond.

The weekend's festivities ended with dancing and live music at the Chapter Host Party, held at 6th Street Marketplace. All in all, Dayton thinks the convention ran smoothly. He hopes the turnout will be just as good for the 1987 convention, set for October 16-17, at the Hyatt Regency Crystal City Hotel in Arlington.



William C. Monroe, AIA, 1986 president, had some words of wisdom to impart to the Noland Night audience. Seated at the head table, listening attentively are: Robert A. Boynton, AIA, 1987 president-elect; Helen Boynton; Delmar L. Dayton, AIA, 1986 Convention Committee Chairman; and Claire Dayton.

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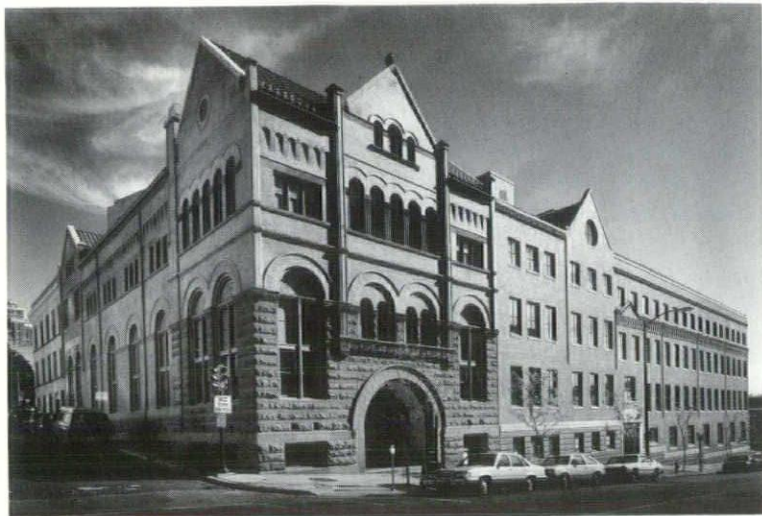
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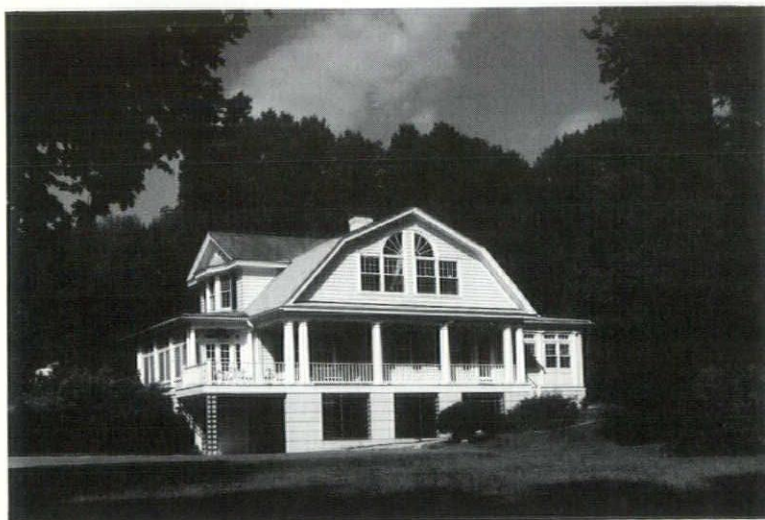
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Willard M. Scribner, AIA, Project Manager
Robert A. Boynton, AIA
Jeffrey T. Atwood
Woodrow D. Palmore, Construction Administration
Betsy Ryan and Diane G. Broecker, Interior Design

Owner: Virginia Supplemental Retirement System
Structural Consultant: Dunbar, Milby & Williams
Mechanical/Electrical Consultant: Hankins and Anderson
Construction Manager: Davidson & Jones Construction Co.
Photographer: Whitney Cox

"Sophisticated urban design . . . sensitive interpretation and marriage with existing . . ."

(Featured in VIRGINIA RECORD July/August 1984 and July/August 1985)



DONATELLI RESIDENCE

Architect: Cole & Denny, Incorporated, Alexandria
John E. Cole, AIA, Principal
Project Team: Michael P. Molzahn, AIA, Mark T. Curfman,
John E. Cole, AIA, Douglas J. Denny, AIA

Owner: Mr. & Mrs. Frank Donatelli
Engineering Consultants: CAD-Concepts Incorporated
General Contractor: Genuario Construction Co., Inc.
Photographer: Mark T. Curfman

"Creative transformation of an undistinguished house . . . wonderfully skillful creating of comfortable spaces, especially porch . . ."

Virginia Society

AIA



Biennial

Design Awards

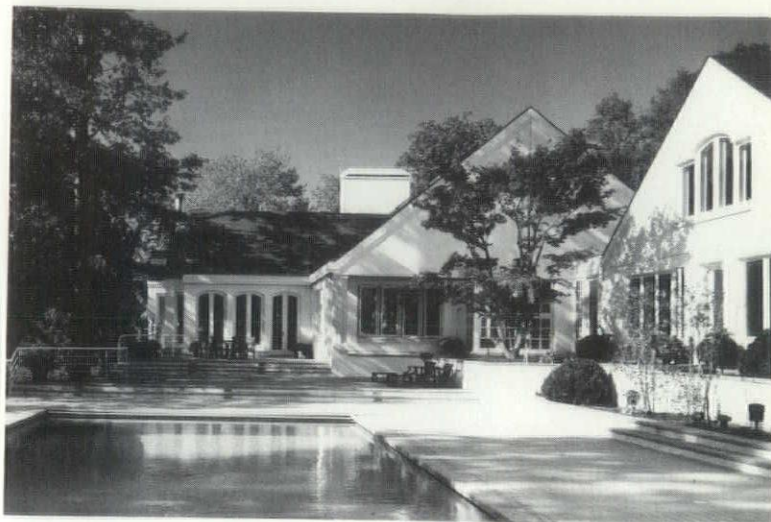
Ten buildings designed by Virginia architects have been singled out from among 125 entries in the VSAIA Biennial Design Awards competition. Honor Awards went to four of the designs, and there were six Merit Awards.

Winning designs ranged from residential projects to corporate headquarters; from adaptive re-use to the new. The unifying factor is that all represent architecture at its best, according to the distinguished jury of three, who made the selections.

Each entry in the competition was measured against the centuries-old tests of quality architecture: **COMMODITY**—meaning usefulness for the intended purpose of the building; **FIRMNESS**—lasting qualities; and **DELIGHT**—aesthetic appeal, including how well it fits its surroundings.

The entries were judged by a jury consisting of: Dell Mitchell of Perry Dean Rogers & Partners Architects, Massachusetts; James D. Tittle of Tittle Luther Loving Architects, Texas; and Robert Burns of the North Carolina State University Department of Architecture.

Awards were presented in Richmond, October 17, during the Virginia Society's annual convention. Photographs of the winning projects are presented on the following pages with a sampling of the jurors' comments.



THE EVANS RESIDENCE

Architect: Davis & Carter, P.C., McLean
Randall Mars, AIA, Designer

Interior Consultant: Dakota Design Group, Ltd.

Lighting Consultant: Peter Barna Light & Space

General Contractor: Pollard & Tolley Construction

Photographer: Peter Hardoldt

"Imagery and scale in the rural landscape . . . imaginative reinterpretation of traditional details and forms . . ."



NATIONAL PRESS BUILDING

Architect: HTB, Inc., Architects-Engineers-Planners,
Washington, DC

Edwin F. Schnedl, AIA

Team Members: Edwin F. Schnedl, John C. Recny, Carl L. Huff, James M. Duda

Owner: National Press Building Corp.

Structural Engineer: Smislova, Kehemui & Associates

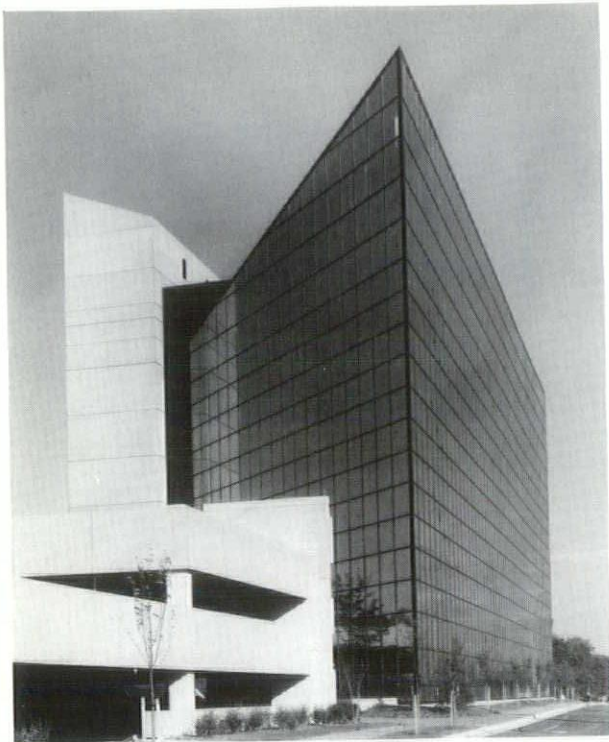
Mechanical/Electrical Engineer: Glassman-LeReche and Assocs., PC

General Contractor: Turner Construction Co.

Photographer: R. Greg Hursley, Inc.

"Very successful facade treatment on ordinary existing building . . . improved scale, context, urbanistic qualities . . ."

MERIT AWARDS



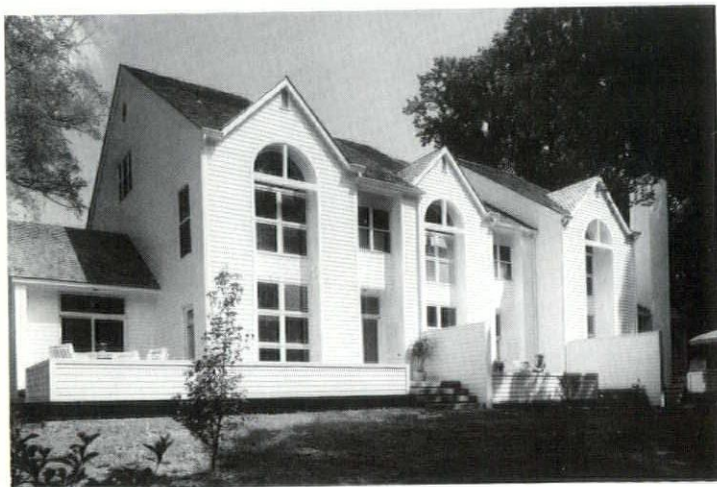
AMERICAN TRUCKING ASSOCIATIONS NATIONAL HEADQUARTERS

Architect: VVKR Incorporated, Alexandria
 Owner: American Trucking Associations
 Structural/Mechanical/Electrical/Site Engineer: VVKR Incorporated
 General Contractor: Glen Construction Company of Virginia
 Photographer: Douglas A. Brown
"Embodies some intriguing design ideas . . . Fairly sophisticated use of interior forms . . ."
 (Featured in VIRGINIA RECORD May/June 1986)



PRUCARE MEDICAL OFFICE BUILDING

Architect: Glave Newman Anderson Architects, Richmond
 Samuel A. Anderson III, FAIA Principal-in-Charge
 Willard M. Scribner, AIA, Project Architect
 Robert A. Boynton, AIA
 Jeffrey T. Atwood
 Woodrow D. Palmore, Construction Administration
 Sarah L. Hopkins, IBD, ASID, Interior Design
 Owner: PruCare of Richmond at Boulders
 Structural Engineer: Dunbar, Milby & Williams
 Mechanical/Electrical Engineer: HC Yu and Associates
 Geotechnical Engineer: Sayre Associates, p.c.
 Site/Survey Engineer: Graham Henderson
 Landscape Architect: Higgins Associates
 General Contractor: F.N. Thompson, Inc.
 Photographer: Whitney Cox
"Interior treatment of gobbled space adds interest and liveliness to public space . . . Organization of circulation plus entrance elements a simple clear plan resolution . . ."
 (Featured in VIRGINIA RECORD March/April 1986)



COMMONS TOWNHOUSES AT KANAWHA TRACE

Architect: Archimedia, Richmond
 George L. Kennedy, AIA
 Team: George Kennedy, William Loving, Tore Knudsen, Ronald White
 Consulting Architect: Carlton Abbott and Partners, Inc.
 Owner: Kanawha Trace Development Partners
 Developer: Park Sussex Development Corp.
 Consulting Civil Engineer: Michael P. Mazingo, P.E.
 Construction Manager: Park Sussex Development Corp.
 Photographer: Whitney Cox
"Of all the multifamily housing submissions, the one which became a 'building' as a completed form . . . Deck elevation is particularly attractive . . ."

CHATHAM HALL DABNEY HALL STUDENT CENTER

Architect: VMDO Architects, Charlottesville

Project Team: Robert L. Vickery, AIA, David M. Oakland, AIA,
Todd W. Bullard, Montie Breeden, Reese Livingston

Owner: Chatham Hall

Landscape Architect: Nancy Takahashi

Mechanical/Electrical Engineer: Owen Engineering

Structural Engineer: Dunbar, Milby & Williams

General Contractor: Blair Construction Co.

Photographer: Harlan Hambricht & Associates

"Major transformation of basement space generally successful . . .

Quality of detailing, tile work and moldings . . ."

(Featured in VIRGINIA RECORD July/August 1986)



CABIN JOHN FIRE STATION #10

Architect: Hughes Group Architects, Inc., Reston
Wayne L. Hughes, AIA

Owner: Montgomery County Government Design & Construction Division

Structural Engineer: Funkhouser Associates

Civil Engineer: VIKI

Mechanical/Electrical Engineer: Advance Engineers Ltd.

Interior Consultant: Bubb Designers & Consultants

General Contractor: Nardi Construction

"Several fire stations entered . . . This was the best . . . Competent design, well detailed . . ."



THE MARYLAND DEPARTMENT OF AGRICULTURE HEADQUARTERS BUILDING

Architect: VVKR Incorporated, Alexandria

Owner: State of Maryland, Dept. of General Services Office of Design
and Construction

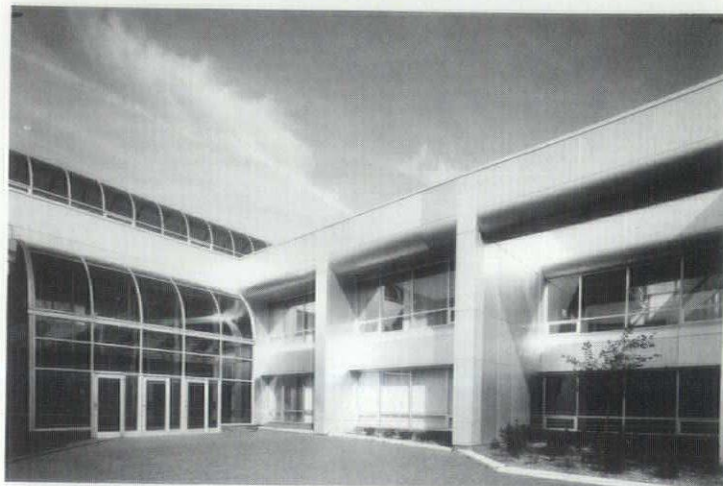
Structural/Mechanical/Electrical/Site Engineer and Landscape Archi-
tect: VVKR Incorporated

General Contractor: J. Roland Dashiell & Sons

Photographer: Harlan Hambricht & Associates

*"Handling of building skin very slick and lively . . . well thought out
logical plan . . ."*

(Featured in VIRGINIA RECORD September/October 1983)



VIRGINIA SOCIETY AIA NEWS

Virginia Society, AIA Has New Executive Vice President

Meet John Braymer!

John W. Braymer, who was unanimously appointed by the board, joined VSAIA as its new Executive Vice President on November 3, 1986.

Since 1980, John has served in a variety of capacities related to professional affairs. He has managed the national recognition program for postsecondary accrediting agencies with the Council on Postsecondary Accreditation in Washington, DC, and has served for the past two years as executive director of the boards of Professional Counselors, Psychology, and Social Work, a segment of the Virginia Department of Health Regulatory Boards. John has also served as a senior legislative analyst with the Joint Legislative Audit and Review Commission of the Virginia General Assembly.

He began his career teaching English, first in public schools, then at the University of Tennessee, where he earned his Ph.D. in English. His teaching duties brought him to the University of Richmond's School of Business Administration, and he has served as adjunct faculty at Virginia Commonwealth University and Mary Baldwin College. John has also worked as a consultant to the American Bankers Association, the Allied Corporation, and other area businesses. A native of Pennsylvania, he received his undergraduate degree from Maryville College in Maryville, Tennessee, and undertook part of his graduate study at Oxford University in England. He is a member of the Honor Society of Phi Kappa Phi, Pi Delta Phi (French), and Phi Mu Alpha Sinfonia.



JOHN W. BRAYMER
Executive Vice President
VSAIA

His interests include choral music, piano, and—appropriately enough—architecture. Married, with a five-year-old daughter, John is looking forward to a challenging tenure with the Society.

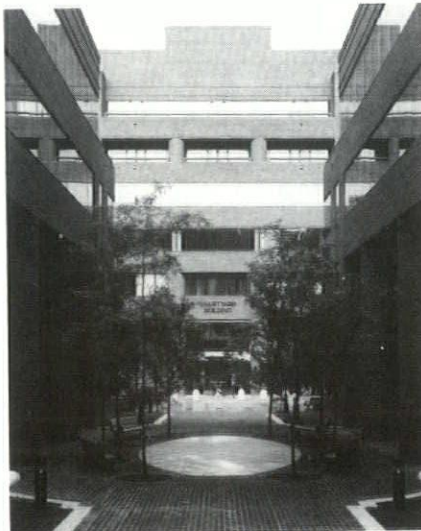
AWARDS & RECOGNITION

Lewis/Wisnewski Wins Masonry Award for Duke Street Square

Lewis/Wisnewski & Associates, Ltd., an architecture and interior design firm based in Alexandria, has received a Merit Award for Duke Street Square from the Masonry Institute Design Awards Program. Ray Lewis and Joe Wisnewski, partners of the firm, accepted the award for the project which was selected by a jury representing the graduate architectural programs of Catholic University, the University of Maryland and Howard University.

Duke Street Square, located at 1600 Duke Street in Alexandria, is an all masonry complex of four commercial office buildings totaling 280,000 square feet. The buildings are grouped around a European courtyard complemented with landscaping and a water fountain as its focal point.

The reviewer's comments noted the unique and human scale environment of the courtyard, the successful engagement of the building lobbies with the site and the refinement of details.

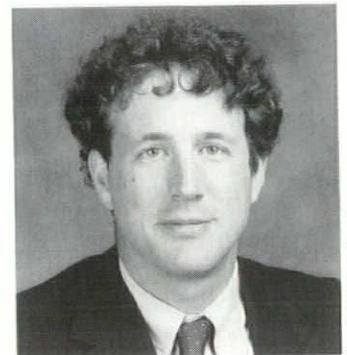


CORRECTION

In our coverage of The Gayton Kirk in the September/October 1986 issue, the paint supplier was incorrectly identified.

Creative Paint and Wallpaper, Inc. of Richmond supplied the paint for The Gayton Kirk.

INFORMATION AND SERVICES



Paul R. Corrigan, AIA-PE

New Venture in Old Town

In the second quarter of 1986, The Corrigan Group opened its doors at 111 Oronoco Street in Old Town Alexandria to provide the building industry with a comprehensive set of information services. Paul R. Corrigan, 30, President and Founder of the Group and a native Northern Virginian, sees the need to provide computer consulting, applications, software development, and time sharing to the industry.

"Basically," Corrigan says, "we are a full service consulting firm. Specifically, the industry is excited about Computer-Aided Drafting and Design (CADD); however, the areas of project management, critical path method scheduling, and facilities management are playing an increasingly important role."

Corrigan explains that computer consulting is important not only before but after the purchase of a computer system, because instituting a system that is not attuned to a firm's procedures and staff is akin to "designing or constructing a building with a set of plans in a foreign language—the information is there, but nobody knows what to do with it. Therefore we provide continued post sales support and integration."

This full service concept came about to solve

two ills in the computer service sector. First, consultants of computer hardware and software who do not own or use the system quickly become out of step with the rapid-fire software advances. Second, service bureau operations (firms involved with the production end of plans) often are out of touch with their clients' needs. "They usually do not understand the information they are putting down on the plans," says Corrigan. The Group's \$200,000 investment in equipment resolves the first problem, and the second problem is resolved by an in-house staff of Registered Architects and Professional Engi-

neers experienced in construction work, who "fill the knowledge gap."

A Registered Architect and Engineer, Mr. Corrigan's background includes a B.S. degree in Architecture from the University of Virginia, a Master's degree in Engineering from Cornell, and over three years as Vice President of the Computer Division, at VVKR, Inc., an Alexandria architecture/engineering firm. "Our goal," says Corrigan, "is to get it built. Helping buildings go up faster, safer, more aesthetically and less problematically is what we specialize in doing."

AIA Offers New Software Package

Architects will be able to forecast their clients' future design needs and expand client services through a new, affordable software package, FM:FORECAST, offered by The American Institute of Architects professional systems division.

Available November 1, FM:FORECAST gives architects the capability to provide facility and space forecasting services, which can help them establish long-term relationships with current clients and develop new clients. By using the software package to document space forecasting decisions, architects can gain competitive advantage when changes in clients' businesses require revised space forecasts.

"Architects are looking for ways to broaden their base of services to survive economic cycles affecting their profession," said William D. Hooper, AIA, senior manager of the AIA professional systems division. "FM:FORECAST" helps architects offer a new range of services that will keep clients tied to their firms. These client services are less likely than traditional design services to be affected to economic downturns."

FM:FORECAST is available as one of the AIA's new MASTER SYSTEMS software tools. It runs on IBM PCs and compatibles, and costs \$695 for AIA members and \$895 for nonmembers. Software support is available directly from the AIA professional systems division. Call (800) 424-5050 for more information.

PERSONNEL AND OFFICE ACTIVITIES

New Ownership . . . New Name

After 16 years of sole proprietorship, J. Robert Ferguson, AIA, Architects of Abingdon, as of Sept. 1, became Ferguson & McKinney, AIA, Architects, P.C., with architect Harry L. McKinney, Jr. joining J. Robert Ferguson in ownership of the firm.

Ferguson, a Bristol native, started the Abingdon firm at its present location of 152 E. Main St. in 1970, bringing with him 10 years of multifaceted architectural design experience. Holding a Bachelor of Architecture degree from Virginia Tech, Ferguson is a member and past director of the Blue Ridge Chapter of the Virginia Society of the American Institute of Architects.

A Richlands, Va. native, McKinney, 33, also holds a Bachelor of Architecture degree from Virginia Tech and is on the executive board of the Blue Ridge Chapter of the Virginia Society of the American Institute of Architects. He is also a member of the William King Arts Center board of directors. Since joining the firm in 1979, McKinney has served as project architect for a number of major projects in addition to organizing and implementing a computerized job-cost accounting system for the progressive firm.

In the past 16 years, the Abingdon architectural firm has designed and administered numerous projects for county school boards, city governments, government agencies and private businesses in several states.

Ferguson & McKinney, AIA, Architects have recently completed the \$7 million new Lebanon High School in Russell County, Va., and the \$4 million new Phelps High School in Pike County, Ky. The firm is currently working on an addition to Honaker High School in Russell County, additions to the National Guard armories in Staunton, Charlottesville and Harrisonburg, Va., as well as a new high school for Pike County, Ky.

Paine Webber

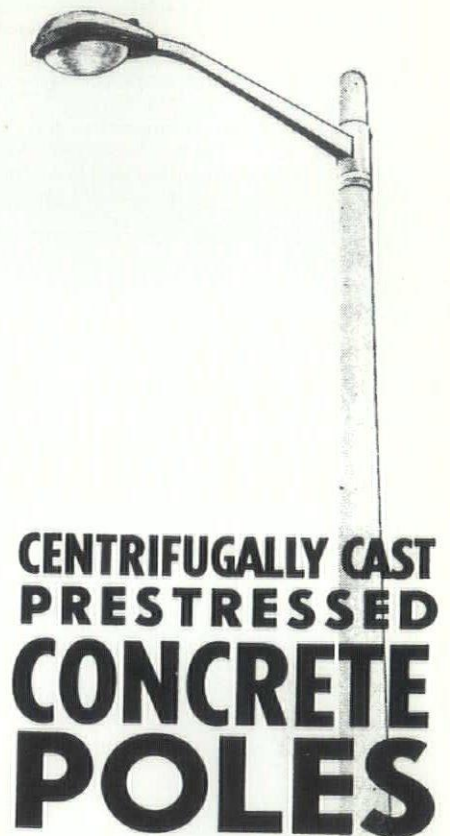
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Roanoke Firm Becomes A Professional Corporation

Frantz & Chappellear, Architects has recently been reorganized as a professional corporation by Curtis L. Ratliff and Charles M. Anderson. The new firm, Frantz-Chappellear Associates, P.C., is continuing the practice of architecture in the same location, 606 State & City Building, and with the same employees as the former firm. Mr. John W. Chappellear, Jr. died in April.

The parent firm was originally formed by Randolph Frantz in 1929 and had been active in Roanoke since that time, although under several slightly different names. It has been known as Frantz & Chappellear since 1965 and, under that name, acted as architect for the Municipal Parking Garage on Church Avenue, the Roanoke Central Library, and along with other firms, had a major part in the design of the Roanoke Civic Center and Virginia Western Community College.

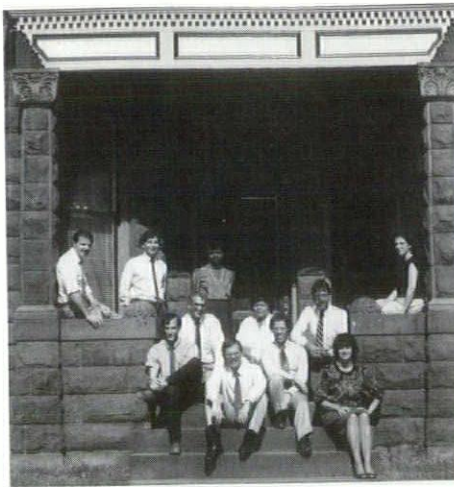


Mary E. O'Keefe

Architect in Training

Mary E. O'Keefe has recently joined the firm of Walsh/Ashe Associates, Inc., a Virginia Beach based architectural, planning and interior design firm, as an Architect in Training. Ms. O'Keefe is a recent graduate of VPI & SU with a Bachelors in Architecture.

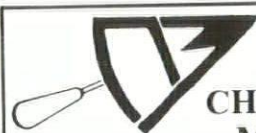
Mary now joins the firm on a full time basis, she has been with them previously during vacations.



Richmond Firm Celebrates 10th Anniversary

DePasquale & Associates, a Richmond architectural firm, celebrated its 10 year Anniversary on the 10th of November. An open-house to express gratitude to clients and business associates was held at 18 West Franklin Street, the 1895 structure restored by the firm for its own offices.

During its 10 year history DePasquale & Associates has continually expanded its range of project types to include major governmental sector facilities, churches, corporate facilities, residences, educational facilities, adaptive reuse of older structures, and interior design.



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Xystros Joins Norfolk-based Firm

Robert E. Washington, F.A.I.A., Principal of Washington Design Group Ltd., has announced the addition of Stelios M. Xystros to the design staff of the company's Norfolk office.

Xystros, a recent graduate in Architecture from VPI & SU, joins the firm after its recent merger with Owen Engineering. Through his college curriculum, Xystros was able to study architecture abroad in such countries as Austria, Cyprus, France, Greece, Italy and Switzerland.

While attending VPI & SU, Xystros earned an honors commendation for Excellence in Design, and participated on the University's AIA competition team. He also has done technical drafting and designs for residential and commercial projects while at a Washington, D.C. firm.

Washington Design Group Ltd. is a Norfolk-based firm with offices in Richmond and Lynchburg. The company's new headquarters is at 501 Front Street in Norfolk.

Glass Rejoins Lynchburg Firm

Scott Glass has rejoined the Lynchburg firm of Clark, Nexsen, Owen, Barbieri & Gibson, Architects and Engineers, with offices in Lynchburg, Norfolk and Madrid, Spain. Mr. Glass has been named as the Director of Marketing and Manager for the Lynchburg office. He returns to CNOBG/Lynchburg after an absence of six years during which time he was associated with architectural firms in Richmond, Virginia, Atlanta, Georgia, most recently with John Portman and Associates in Atlanta, Georgia.

Mr. Glass is the son of Mr. and Mrs. Carter Glass, III. He is married to the former Alice Marshall, a Mary Baldwin alumnus, and has a son, Taylor. He is a 1975 graduate of Washington and Lee University with a B.A. degree and received his Masters degree in Architecture from VPI & SU in 1979.

Mr. Glass will be directly involved in strategic planning, implementation of the Corporate Marketing Program and production management.



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Lewis/Wisnewski & Associates Makes Two Office Moves

Lewis/Wisnewski & Associates, Ltd., an 11 year old firm which provides architecture, interior design, planning and engineering services to the Washington Metropolitan Area, has recently moved its two Virginia offices. Their headquarters is based in Old Town, Alexandria at Towngate Office Complex, pictured above, which is located off the George Washington Parkway at 625 Slaters Lane.

The firm's Herndon office has moved to the Hallmark Building at Renaissance Centre located on Route 28 at 13873 Park Center Road, near the Washington Dulles International Airport. Both offices were designed by Lewis/Wisnewski & Associates, Ltd.

Lewis/Wisnewski & Associates now has a total of 63 professionals in 18,000 square feet of office space. Since the installation of the GDS CADD Computer System this fall, the firm is also expanding its capabilities as well as its staff and space.



Don Sebastian

RESTON FIRM ADDS ASSOCIATE

Lammers+Gershon Associates, Inc., Reston, Virginia, an independent firm of planning and development consultants for the healthcare industry, announces the addition of Don Sebastian to their Associate staff. Mr. Sebastian is a registered Architect and a graduate of Clemson University. Prior to joining Lammers+Gershon, Mr. Sebastian was employed with the Veterans Administration, Office of Construction, Washington, D.C., for 16 years. He will be teaming with the firm's Facility Planning and Development specialists.



Stemmann



Pittman

Intern Architects

Vance Hunter Pittman and David M. Stemmann have joined the design staff of the Yates Group, P.C. in Portsmouth as intern architects. Mr. Stemmann and Mr. Pittman are both architectural graduates of Virginia Polytechnic Institute and State University.

Staff Additions at Pierce Architecture

J. Almont Pierce, Principal of Pierce Architecture—a full service architectural firm offering architectural design, space planning, and interior design—has announced that Angelo J. Messina, and M. Quin Hess have recently joined his staff. Since February 1986 the firm has doubled in size and expanded services to its clients.

Mr. Messina joins Pierce Architecture as a Construction Administrator. He has more than 14 years experience in both construction administration and construction management, and will direct those services for the firm's clients. Mr. Messina graduated from the University of Wisconsin in 1978 with a B.S. in Construction Administration.

New V.P.

DBI a major interior design and architectural firm headquartered in Washington, D.C. announces the employment of Vern Evans as Vice President of Product Sales in charge of continuing the development of the contract product sales division.

"As DBI continues to grow and expand, we continually analyze our service package," said Ken Catterton, principal of DBI.

"I look upon this new association with DBI as an outstanding opportunity to contribute to the company's continuing efforts to improve its services," Mr. Evans said, "My primary purpose here is to insure that product sales and customer service will keep pace with other divisions which have earned DBI the reputation as one of the most progressive and important design firms in the Washington market place."

Ms. Hess was associated with a D.C. architectural firm prior to joining Pierce Architecture. She earned a Bachelor of Architecture degree from Tulane University, New Orleans in 1984, where she was President of the Student Body. In 1982, Ms. Hess received a scholarship to the International Design Conference in Aspen, Colorado. She will provide design and production support for Pierce's architectural and interior design projects.

Current projects for Pierce Architecture include a major expansion of the Iwo Jima Quality Inn Hotel, renovation of the Presidential Gardens Apartments in Alexandria, interior design for a retail scuba shop located in Manassas, and interior design for the Children's Hospice International headquarters in Alexandria.

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Richard D. Anderson, Jr.

Staff Addition at Newport News Firm

Rancorn, Wildman and Krause Architects is pleased to announce the addition of Richard D. Anderson, Jr. to its staff as an Architectural Intern. Mr. Anderson recently graduated *cum laude* with a Bachelor of Architecture degree from the University of Cincinnati.

During his professional practice program at the University, Mr. Anderson worked for firms in Indianapolis, Boston and Williamsburg. His design thesis was selected for publication in the August issue of the American Institute of Architects magazine, *Architecture*.

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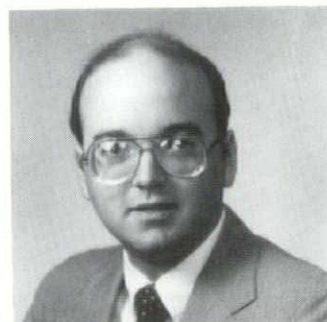


Tingle Named Principal of Williamsburg Firm

Thomas G. Tingle, AIA, has been named a Principal of Magoon/Guernsey Architects in Williamsburg. Since joining the firm in 1984, Mr. Tingle has been Project Architect for several buildings, including the Atrium Building in James City County, Chesapeake National Bank Headquarters in Kilmarnock, The Governor's Inn Renovation and Expansion for the Colonial Williamsburg Foundation, and numerous single family residential projects. He has been an Associate with Magoon/Guernsey Architects since October of 1984.

A 1975 graduate of Lancaster High School, Lancaster, Virginia, Mr. Tingle attended VPI & SU, receiving a Bachelor of Architecture degree, *cum laude*, in 1980.

Mr. Tingle holds architectural registration in Virginia and is a member of the Tidewater Chapter, American Institute of Architects.



Thomas G. Tingle, AIA

Firm Names Business Development Manager

Eric Hjertberg has been named business development manager for the Washington office of Reg Narmour/The Architectural Group, one of the southeast's largest architectural firms.

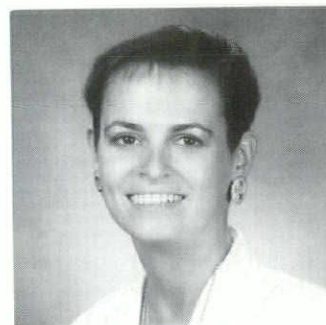
Narmour's Washington office is located at 201 N. Union Street, Suite #403, Alexandria, VA 23214.

Hjertberg joined the Narmour firm from Cooper-Lecky Architects in Washington where he was director of marketing and senior project manager. He also has been a senior consultant with Booz, Allen & Hamilton, Inc., an International consulting firm, where he specialized in com-

mercial building energy management and technology consulting and marketing.

Hjertberg holds a Bachelor of Architecture degree from the University of Maryland and a Master of Architecture and Urban Planning degree from Princeton University.

Reg. Narmour/The Architectural Group is based in Charlotte, N.C. Other offices are in Tampa, Fla. and Raleigh, N.C. The firm has provided architectural services for over \$1 billion of construction since its founding in 1974. Designer of more than 50,000 apartment and condominium units, the firm has won national and regional awards.



Donna C. Scarlett, ASID

New Department Added by Richmond Firm

Architects Dayton & Thompson, P.C. has announced the formation of an Interior Design Department. Donna C. Scarlett, ASID has joined the firm as the director of the new department. Ms. Scarlett is a graduate of Virginia Commonwealth University with a Bachelor of Fine Arts, specializing the director of the new department. Ms. Scarlett in Interior Design. Ms. Scarlett was previously associated with Interior Planners and Contract Interiors, both of Richmond.

SCHOOLS OF ARCHITECTURE

VIRGINIA TECH NEWS

Student Exchange Under Way

Four Virginia Tech students are enrolled at Tongji University in the People's Republic of China and two Tongji students are attending classes in Tech's College of Architecture and Urban Studies, the first student exchange in an agreement worked out between the two universities last year.

The Tech group now studying in the People's Republic includes James Doherty, Terry Stone, David Sunkel and Henry Cochran, all graduate students in architecture.

Attending classes in computer-aided design at Tech are Liu Binyi and Zhan Fong, graduate students in landscape architecture and architecture, respectively, at the Shanghai university.

The agreement signed by the two schools calls for an active exchange of students and professors in architecture, landscape architecture and planning programs and the encouragement of cooperative research efforts. During the fifth year of the exchange, an evaluation team will review program results and make recommendations for continued interaction.

The exchange officially got under way last spring when Tongji officials selected Benjamin Evans, CAUS professor of architecture, as a visiting professor. Evans lectured at the Shanghai university for four weeks.

A visiting professor from Tongji is expected in Blacksburg this year, as well.

Joseph C. Wang, CAUS associate professor of architecture, coordinates the faculty/student exchange for the college.

Three Chairmen Named In Undergraduate Architecture

Virginia Tech's College of Architecture and Urban Studies has named three chairmen to head the different levels of its Bachelor of Architecture program.

Ronald W. Daniel, associate professor, will chair foundation design studies, which includes first-year students; Dennis J. Kilper, associate professor, will direct professional core studies for second- and third-year students; and Robert J. Dunay, associate professor, will head advanced studies/professional thesis, comprised of fourth- and fifth-year students.

Each chairman will oversee a group of students as large in number as many schools of architecture.

Daniel joined the Virginia Tech faculty in 1976 as a lecturer. He holds a Master of Architecture

degree from Harvard and a Bachelor of Architecture degree from Virginia Tech.

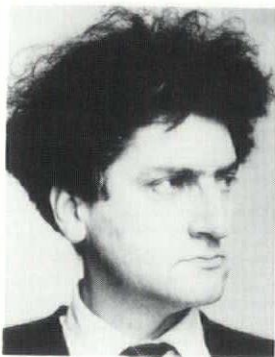
Kilper, who previously served as chairman of the building construction program and of graduate studies in architecture, holds a Doctor of Architecture degree from Rice University and Master and Bachelor of Architecture degrees and a Bachelor of Science in Architecture from Washington University in St. Louis. Before join-

SIDELIGHTS

AIA Archival Materials Used in PBS Documentary

Original architectural drawings and photographs of the Statue of Liberty from The American Institute of Architects Foundation (AIA/F) were spotlighted October 28 in the public television documentary, "The Making of Liberty."

Producer Charles Guggenheim and his crew spent two days in the AIA/F's Prints and Drawings Collection filming archival materials for the one-hour documentary on the Statue's design, construction, and restoration. A dozen images from the Collection including Richard Morris Hunt's pedestal designs, Gustave Eiffel's armature drawings, and Frederic-Auguste Bartholdi's sketches, appeared in the show.



Leon Krier



West Elevation

The Charnley House

Architectural Institute Established

CHICAGO, ILLINOIS. The Skidmore, Owings & Merrill Foundation announced in September this year, the establishment of an institute for research on architecture in urbanism and the appointment of Leon Krier as Director for the Institute. The Institute will serve as the center of research programs for architecture and urbanism, focusing on man's, and society's growth and needs. Particular emphasis will be given to the creation of both physical visions and societal strategies toward architecture that is in sympathy with the ecology of human habitation.

The SOM Foundation was founded in 1979 by the partners of Skidmore, Owings & Merrill to creatively stimulate, at the highest level of excellence, the contribution made by relevant professions to the built environment. Directed by a Board of eminent academic, business and cultural leaders, the Foundation has supported activities which improve the quality of growth and change in our culture and physical environment by offering grants, sabbaticals, fellowships, internships and the like to architects and other urban professionals.

ing the Virginia Tech faculty in 1975, he worked as an architect for Skidmore, Owings and Merrill of Chicago and was in private practice with Ransom and Kilper, Architects in Houston.

Dunay, who has taught at Tech since 1973, has both Bachelor and Master of Architecture degrees from the Blacksburg university. He is a principal in Dunay Associates, a small private practice in Blacksburg.

"The Prints and Drawings Collection is a major resource of American architecture, and we're delighted that Guggenheim Productions was able to make use of it," said James P. Cramer, president of the AIA Foundation.

The Prints and Drawings Collection contains over 8,000 Hunt drawings. A founder of the AIA and considered the "dean of American architecture" by his 19th-century contemporaries, Hunt is also known for public buildings and Beaux-Art mansions for the Vanderbilt family. The Prints and Drawings Collection also includes works by architects William Thornton, Thomas Ustick Walter, and Henry Bacon, among others.

For more information, call Sherry Birk, curator of the Prints and Drawings Collection, (202) 626-7571.

Krier, winner of the Jefferson Memorial Medal of Architecture in 1985, taught architecture and town-planning at the Architectural Association and Royal College of Arts in London and Princeton University. He was the Jefferson Professor of Architecture in 1982 in Charlottesville. He is currently working on a master plan for the Spitalfields historic district in London and for the New Town Atlantis in Tenenfe (Canary Islands). He has lived and worked in London since 1968 and is married to the painter Rita Wolff.

The Institute will be headquartered in the Charnley House in Chicago, Illinois. The Charnley House was designed by Frank Lloyd Wright when he was chief draftsman for the firm of Adler and Sullivan in 1890. The SOM Foundation has restoration of as much of the house as possible while simultaneously accommodating the daily needs and operations of the Foundation. Completion initiated a program which will allow for the of the restoration program will occur in 1987.

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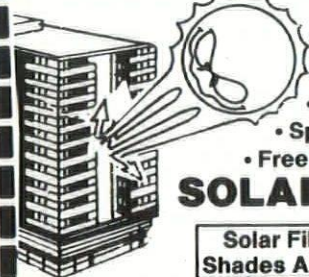
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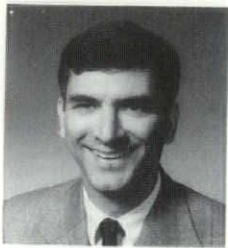
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American Security Bank Headquarters Building Renovation

VVKR Incorporated—Architect

Owner: American Security Bank, Real Estate
Services Division • Location: Washington, DC

Project Architect/Designer, Interior Designer,
Structural/Mechanical/Electrical Engineer,
VVKR Incorporated • General Contractor,
George Hyman Construction Company
• Photography, Walter Smalling.



The American Security Bank (ASB) Headquarters Building has a very prestigious address in Washington, D.C., located at 1501 Pennsylvania Avenue opposite the U.S. Treasury Building and the White House. The 54-year old facility, with its large masonry columns and copper roof, blends into the historic streetscape.

When the client required major renovation to update the 115,000 square foot facility, VVKR Incorporated was retained to provide consulting services. The historical character of the building was to be preserved; however, the bank's interior required an extensive space planning, interior architecture, and energy efficient design effort.

There were two basic parts to the renovation: energy conservation and interior renovation.

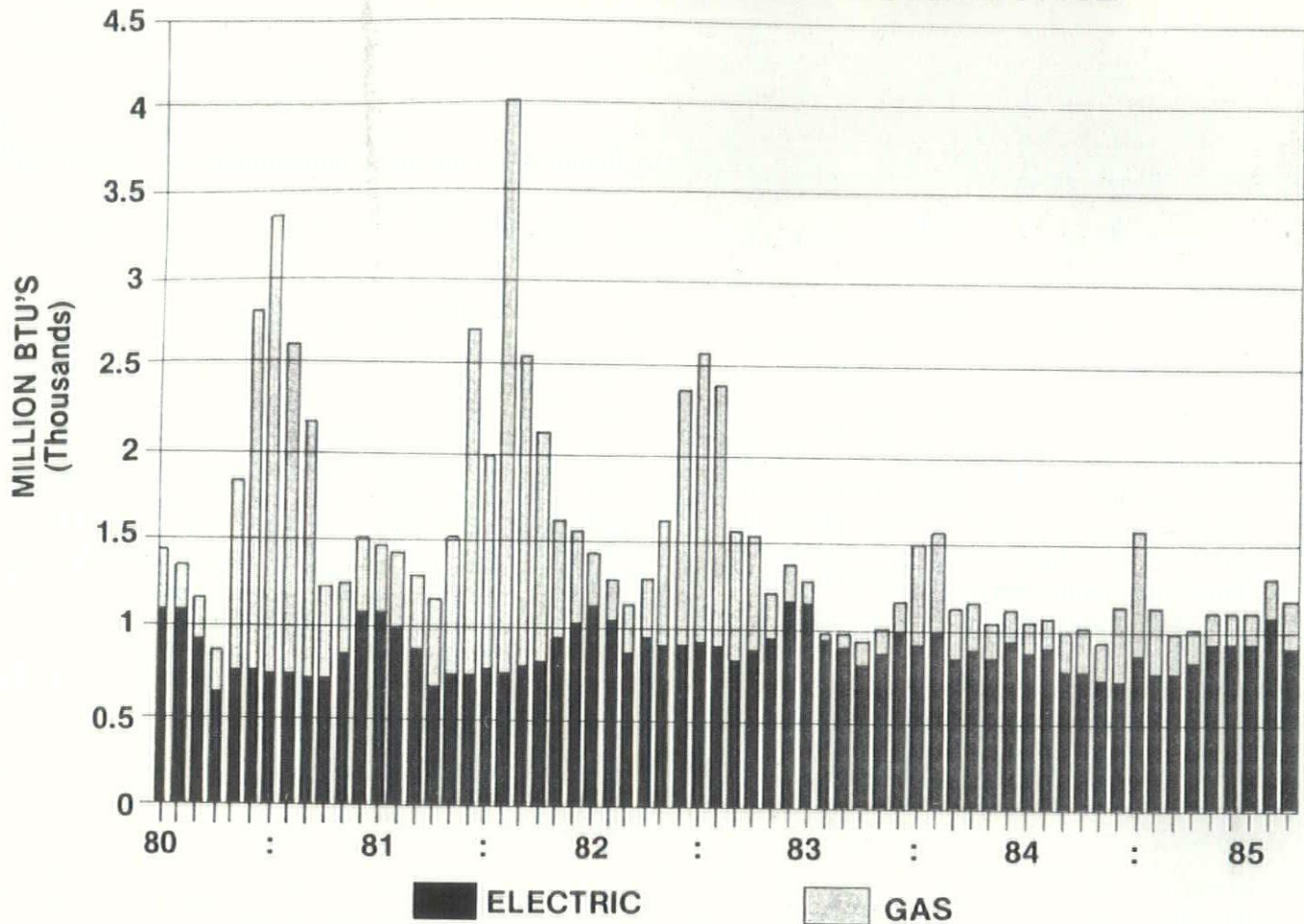
ENERGY CONSERVATION

Because the facility was constructed in the 1930s, typical problems related to an older building existed. The heating and cooling systems were inadequate. Walls were not insulated; windows were drafty due to the use of single-pane steel casements. The cooling system, added in 1950, was constructed with ductwork on the outside of the building which created an unattractive view from the street. The electrical system in the facility was not up to code.

To resolve these problems, the design team worked closely with ASB's Real Estate Services Division in the development of a solution. Once systems were decided upon, a construction schedule was developed so as not to disturb the day-to-day activities of the bank.

In conjunction with upgrading the mechanical and electrical distribution systems, the central mechanical plant was upgraded, replacing the

TOTAL MONTHLY ENERGY USE AMERICAN SECURITY BANK—MAIN OFFICE



As the renovation progressed between July 1982 and February 1984, the total monthly energy use decreased substantially.

Energy information reprinted from:
PEPCO IEP Information Exchange, Volume 7—March 1986

original gas-fired boilers with an energy efficient hydronic heat pump system. Subsequent audits of operating costs indicate an energy savings of 40 to 50 percent.

Other energy efficient features include: Double-glazed windows with integral blinds, perimeter wall and roof insulation, parabolic light fixtures, and a computerized energy management system.

In recognition of energy programming accomplishments on this project, VVCR was designated recipient of the EnComp Award.

INTERIOR RENOVATION

In order to create as much flexibility as possible in the office space, all existing partitions were removed leaving only the toilet, exit stairs, and elevator shaft walls. In addition, ceilings, floor finishes, lighting, electrical and mechanical equipment were removed. The core walls were covered with fabric-wrapped acoustic panels and sound attenuation was further enhanced by installation of a new acoustical tile ceiling. The floor was covered with carpet tiles over flat-wire conductors for telephone, data, and power distribution.

American Security Bank Headquarters

Conditioned Space:	115,000 square feet
Building Type:	Office Building
Renovation Measures:	Installed double glazed windows with integral blends Installed perimeter wall and roof insulation Installed parabolic light fixtures Installed water source heat pump system with thermal storage Installed energy management system —JC 85/40

Total Renovation Cost: \$1,713,000

Estimated Simple Payback: 12 years

Energy Usage Before Renovation: 188,209 Btu/sq.ft.

Energy Usage After Renovation: 112,940 Btu/sq.ft.



The requirement to create all-weather space on the top floor adjacent to the employee dining facility and the board room was addressed by construction of a permanent, copper-roofed enclosure for two-existing roof terraces on the top floor of the building. The design of these enclosures reflected the established standing seam roof expression prevalent in the existing building and was intended to result in a construction that appears to be part of the original project architecture.

Included in the \$5 million budget was a combination of new and refurbished furniture for the facility. Workstations were created using systems furnishings and, in limited cases, demountable full height partitions in areas requiring security or acoustical privacy.

CONSTRUCTION CREDITS

George Hyman Construction Company of Bethesda, Maryland was general contractor for the project.

SUBCONTRACTORS & SUPPLIERS

Sheet Metal Enterprise, Clinton, MD, miscellaneous metal; Metalaire, Inc., Hyattsville, MD, sheet metal; James A. Cassidy Co., Inc., Beltsville, MD, Pella windows; S. Harris Consultants, Ltd., Bethesda, MD, carpet and special flooring; Edward W. Minte Co., Inc., Washington, DC, painting contractor; Zolaton, Los Angeles, CA, paint supplier; Integrated Ceilings, Los Angeles, CA, ceiling tiles; David B. Lewis, Ltd., Lorton, kitchen equipment; John J. Kirlin, Inc., Rockville, MD, mechanical contractor; Dynaletric Co., Vienna, electrical contractor; and Sunarhauserman, Washington, DC, walls & ceilings.

Also, DMR Associates, Inc., Gaithersburg, MD, heat pumps; G.F. Morin Co., Laurel, MD, cooling tower/plate heat exchanger; Sam DeSanto Co., Rockville, MD, pumps, shell & tube heat exchanger; MCC Powers, Columbia, MD, automatic temperature controls; A.C. & S., Columbia, MD, insulation; Glenn Dale Air Systems, Glenn Dale, MD, air & water balance; and Hiebert Wood Systems, Washington, DC, work stations.

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Owner: Virginia Power • Location: Lively, Va.
(Lancaster County)

Project Architect/Designer, C.F. Purdin • Landscape Designer, K.N. McDaniel • Interior Designer, Kim Schoenadel & Assoc., Inc. • Site Engineer/Surveyor, R.H. Green/Holly & Spain Ltd., P.C. • Structural Engineer, J.P. Pollard, Jr., PE/J.H. Nedza, PE • Mechanical Engineer, E.J. Lenzi, Jr., PE • Electrical Engineer, R.B. Cohen/A.E. Genazia • Geotechnical Engineer, J.S. Thornton, Jr., PE • General Contractor, J. Kennon Perrin Construction Co., Inc. • Photography, R.W. Deyerle, Jr.

PROGRAM REQUIREMENTS

To construct a facility housing a district office and warehouse for Virginia Power. Existing facilities, located in Warsaw and Kilmarnock, were abandoned in favor of a centralized office in Lively.

The purpose of the district headquarters is to house the functional departments that provide and maintain electric service to approximately 15,500 customers in King and Queen, Essex, Richmond, Westmoreland, Northumberland and Lancaster counties. The district work force totals 55 employees and functions in three primary departments: Customer Service, Construction, and Operations. The Customer Service Department is responsible for all accounting functions which include collecting payments, meter order transactions, billing complaints and delinquent accounts. The customer service

department also handles new and rewire service inquiries, construction estimates and line surveys. The Construction Department builds and maintains overhead and underground facilities to provide new service and continuity of service to existing customers. The Operations Department ensures operation of circuits for continuity of service. They set, remove, and read meters, install services, monitor tree clearing and trouble shoot for service restoration.

SITE

The building site, a parcel of 12 acres, located on Rt. 3 in Lively, is a cleared field with farmland to the north and south. Across the street to the east is residential property.

SOLUTION

The 8,200 sq. ft. district office building is set back 185 feet and acts as a screen to shield the

warehouse from Rt. 3. The tripartite eastern elevation is indicative of the building organization. The wings house the entrance, lobby and Customer Service department to the north, and the Construction and Operations departments to the south.

Managerial offices, restrooms and conference, meeting and lunch rooms are housed in the recessed central block. A single-story brick and block building was selected for economy. Wood trusses were used to support the hip roof. The use of brick, T-1-11 plywood siding, asphalt shingles, casement windows and 1.7 landscaped acres was in direct response to the residences located across Rt. 3.

To increase energy efficiency of the building, vestibules were used at the four major entries. All windows are double glazed metal clad wood casement windows. The windows are operable



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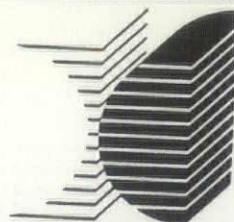
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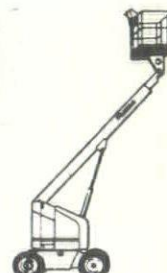
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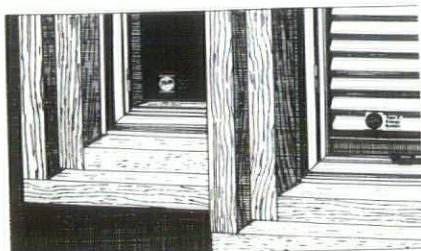


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to permit natural ventilation during mild weather. The four-foot roof overhang provides summertime shading.

The 5,100 sq. ft. pre-engineered metal warehouse is located in the middle of a 4.5-acre paved storage yard. A 90-foot loading canopy connects the warehouse and office buildings. Parking, outside of the fenced storage yard, was provided for 72 cars.

CONSTRUCTION CREDITS

J. Kennon Perrin Construction Co., Inc., of Richmond was general contractor and handled concrete and gypsum board work.

SUBCONTRACTORS & SUPPLIERS

(Richmond firms unless noted)
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Building Systems Div., Milwaukee, WI, metal building; Gupton Insulation Co., Inc., Clarksville, built-up roof; Mid-Atlantic Foam, Inc., Fredericksburg, roof insulation; and Tremco Maintenance Service Corp., Cleveland, OH, caulking.

Also, Miller Manufacturing Co., Inc., structural wood; Woodworking Specialist Co., Inc., millwork & cabinets; Apple Door Systems, metal doors & frames & wood doors; Pella Virginia, Inc. windows; American Door & Glass, Inc., storefront; Pleasants Hardware, hardware supplier; B.C. Shiflett Ceramic Tile, Essex County, ceramic tile; Acoustics & Interior Construction, Inc., acoustical treatment & resilient tile; DMA & Associates, Inc., carpet; T.F. Frick & Co., painting contractor; Barranger & Co., Inc. demountable walls; Roanoke Engineering Sales Co., Inc., equipment; Independence Communications, Inc., Newport News, fire alarm; Baker & Hazlewood Mechanical Contractors, Inc., plumbing/heating/air conditioning contractor; Graybar Electric Co., Inc., Hampton, lighting fixtures/electrical equipment supplier; and W. A. Fisher & Son, Inc., Lottsburg, electrical contractor.

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FARMVILLE, VIRGINIA 23901

Campbell Residence—Addition

John G. Lewis, Jr., AIA—Architect

© 1986, John G. Lewis, Jr.

Owners: Hugh and Sally Campbell • Location: Beaverdam, Va.

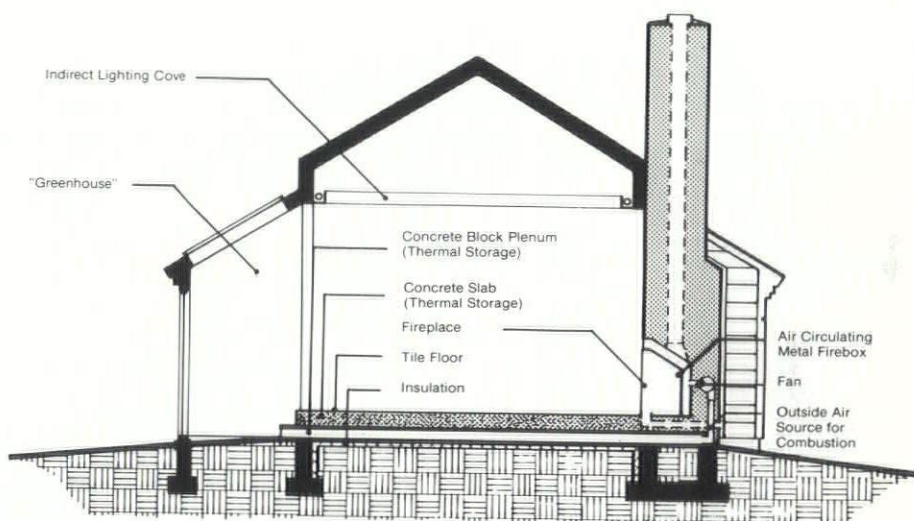
Project Architect/Designer, John G. Lewis, Jr., AIA • General Contractor, Hugh Campbell • Photography, John G. Lewis, Jr., AIA

The design and planning objectives for this house addition were to incorporate an existing screened porch into a new family room. The owners, Hugh and Sally Campbell of Hanover, expressed a desire that the room not only provide an attractive, contemporary space with a fireplace as a focal point, but also incorporate a greenhouse, custom spa and exciting high ceilings with skylights. Energy efficiency was their strong desire.

The new addition was connected to the existing house which is of traditional architectural style. It was separated with a connecting link on the south side and oriented differently from the existing house massing so that it would gain better sunlight and read visually as an addition. Continuity of architectural design vocabulary is maintained within the new addition by incorporating architectural forms, details, materials, and textures that existed in the original house. The project uses masonry materials in conjunction with a wood-burning fireplace and solar energy to provide energy efficient heating.

The design has used masonry to continue heating the room even after the room is free from any heating source, such as the fireplace or the sun. Three types of masonry products are used: tile, brick, and block. These materials are used as integral parts of a thermal storage system that may be charged by the sun or the heat circulating fireplace. They were also used in the construction of the room's custom built solar heated spa.

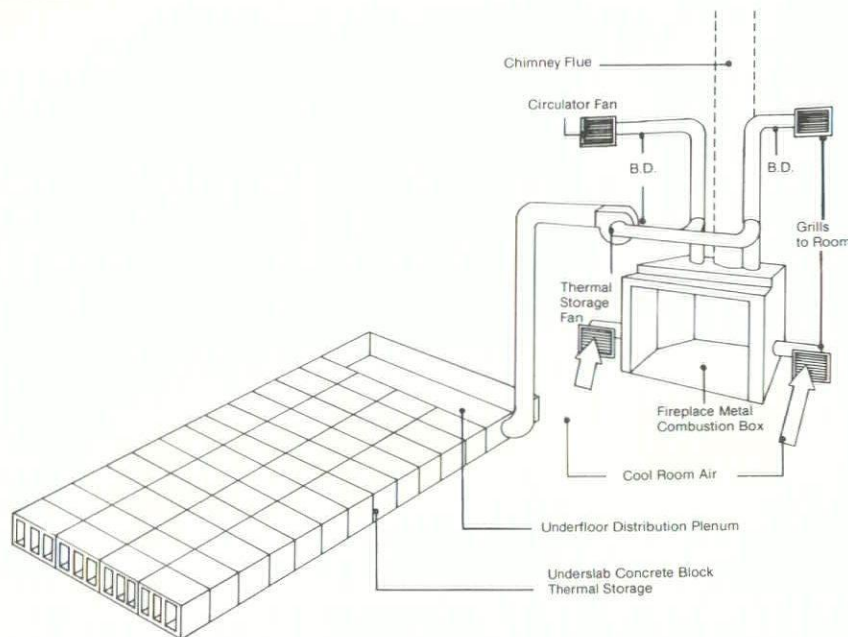
The room's unconventional fireplace heating system is innovative. Unlike conventional fireplaces which heat room air that rises to the ceiling, this design puts the heat at floor level where the people are. The cold edge is taken off the tile covered floors by passing heated air, from a pre-manufactured air-circulating fireplace, through integral passages within the floor. The concrete slab and block of the floor structure serve as thermal storage mass and distribution system for the fireplace-heated air. Air that is drawn through the metal air-circulating fireplace and the underfloor heat storage system exits into the greenhouse area of the room. Here it counteracts and offsets the heat-



Section Through Thermal Storage

CONCEPT ILLUSTRATION





Simplified Schematic of Fireplace Thermal Storage



loss of the glass and skylights by remotely directing fireplace heat to the greatest source of heatloss in the room.

The thermal mass of the floor serves as a heat sink for what normally would be excess heat generated by the fireplace. Excess heat which normally would have overheated the room or been lost up the chimney is stored in the floor. As the fire dies down or goes out, heat from storage which has been moving through the floor slab by conduction begins to heat the room by radiation.

Within the family room, adjacent to the greenhouse area, is a custom built spa. This tile covered spa, constructed of block, uses active solar collectors located on the roof to heat the hot water. Whirlpool jets agitate the recirculating hot water for soothing relaxation and enjoyment.

This room addition has received the First Place Award in the 1986 Construction Specifications Institute's "Awards for Excellence Program." This award is given by CSI for the project which best demonstrates the pursuit of excellence, and the most creative and innovative uses of products, materials, systems, technologies or techniques in design and construction by Metropolitan Richmond firms. The winning project was recognized for its innovative use of concrete block—storing heat from a fireplace. The design features an addition to a residence that has incorporated an underfloor thermal storage plenum created by aligning the cores of concrete blocks. Air warmed by an air-circulating fireplace is passed through the block cores to warm the floors of the room and to store heat. The project has also received a 1985 First Place Award of Excellence from the Virginia Masonry Council. The Excellence in Masonry Design Award is the highest recognition the Masonry Industry gives an architect or architectural firm. This project was cited as the winning project in the category of masonry contracts under \$50,000.

The owner, Hugh Campbell of Beaverdam, acted as general contractor for the project.

SUBCONTRACTORS & SUPPLIERS

Southern Brick & Supply Co., Inc., Richmond, brick & block supplier; Alvin Walsh, Doswell, brick & block contractor; Kenneth R. Schaal—Commonwealth Solar Services, Ashland, solar contractor; Bromac Construction, Doswell, carpentry; Mosaic Tile Co. of Va., Richmond, ceramic tile supplier; C.F. Lazzuri, Jr., Hanover, ceramic tile contractor; and Classic Pools by Dike, Inc., Beaverdam, hot tub.

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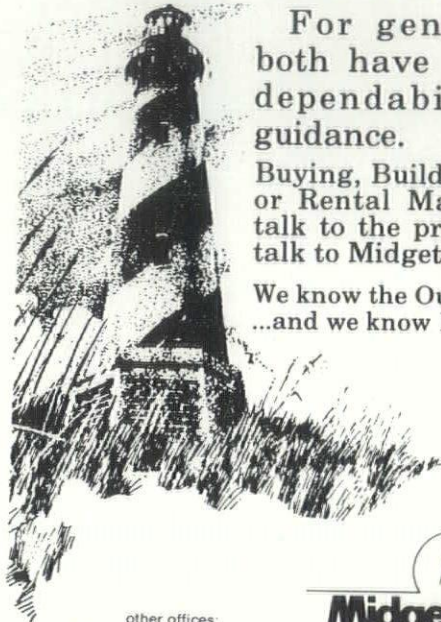
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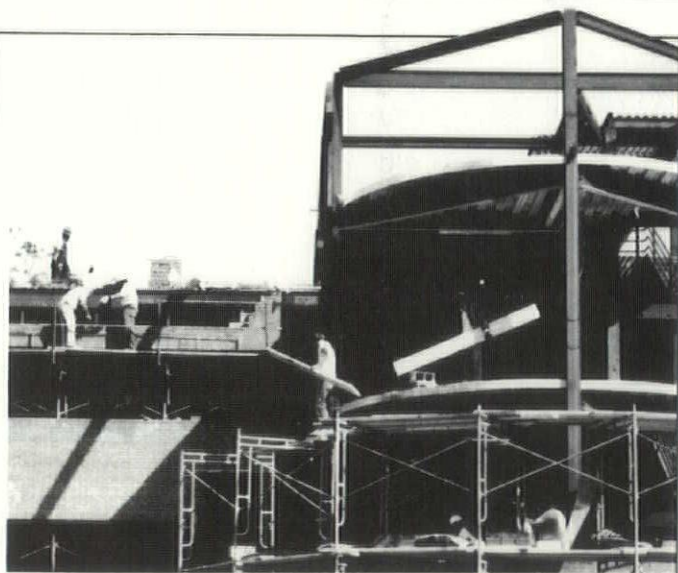
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Mascuch Vacation House

GBA Architects/Preservationists

Owners: Frank and Charlene Mascuch • **Location:** Cape Hatteras, NC

Project Architect/Designers, Gregory S. Brezinski & R. Anderson Moberg • **Interior Designer,** GBA Architects/Preservationists • **Site Engineer/Surveyor,** William Meekins, Jr. • **General Contractor,** Midgett Realty • **Photography,** Gregory S. Brezinski

A fisherman's fantasy of a wife watching and waiting from a tower for her husband's fishing boat to return from sea inspired the Mascuch vacation house at Cape Hatteras, North Carolina. The vision of the sailor who could set his compass to a familiar site on the horizon—his home—greatly influenced the design.

In contrast to fantasy, the practical concern for energy conservation was important in the design. An energy efficient plan was a major goal for two reasons. First, because the house would be used as a beach house with many guests, the demand for hot water would be greater than normal, and second, with the house occupied during the winter season, the desire for maintaining a minimum temperature at little expense was obvious.

The solution was a multi-level passive solar contemporary design with a unique Crow's Nest. The first level includes three bedrooms and a bath while the main living area on the second floor creates a center for conversation and dining. The open plan on this level allows movement from the large great room to the kitchen/dining area and its adjoining bar. The great room is also situated to provide zone separation for the owners and their guests.

On the third floor, a suite consisting of a master bedroom and bath and a conversation area gives additional privacy. A spiral staircase reaches beyond the Crow's Nest, a fourth level of the house. Here, the fantasy that inspired the project is realized. From the ocean, the Crow's Nest, at 55 feet, becomes the first visible structure on land. The 360° vista from inside the room provides a view of the yacht club nearby, Hatteras Point, and the oceanfront. The intimate area is complete with a telescope and a bar where one can watch for the owner's return.

The couple's concern for an energy efficient design is answered with the due south orientation of the house. The fully glazed facade on this exposure makes the house 90% energy efficient. The insulated windows maintain a minimum required temperature throughout the heating season. Additional heating is needed only during occupancy. Bathrooms and stairways act as a buffer zone between the living space and the house's northern exposure.

The great room's fireplace adds an artistic and functional complement in the winter months. Glass on either side contributes to solar capabilities. A solar thermostat on the HVAC system controls the fan in the great room, which recirculates warm air through the rest of the house during the cooler months. The south exposure

also meets the need for heated domestic water. Ground mounted solar panels produce more than an adequate supply of water for beach guests.

Not only does the south orientation realize the solar benefits; it also captures a panoramic



view of the Atlantic Ocean. On the east, a secondary view is more controlled, focusing on a sea-side atmosphere of sand, dunes and natural terrain. All major areas open onto decks and balmy ocean breezes.

Quality construction is seen in the richness of rough sawn juniper siding used on the entire interior and exterior. The natural dunes on the site serve to blend with a constructed walkway that leads to the house. Additional dunes were created to complement the project and to camouflage an enclosed storage area under the first level.

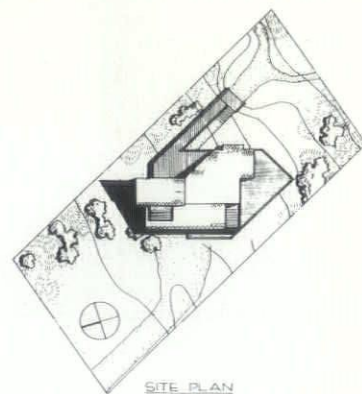
Project cost: \$120,000
Occupancy: 1985

Midgett Realty of Hatteras, North Carolina was general contractor and handled roofing, roof and wall insulation, carpentry, structural wood,

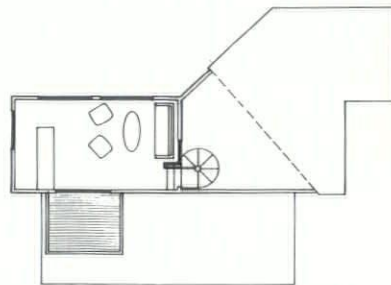
millwork, paneling, waterproofing, caulking, sheet metal and painting.

SUBCONTRACTORS & SUPPLIERS

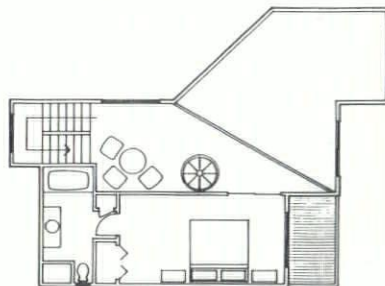
Dare Building Supply, Buxton, NC, piling & hardware supplier; Meekins Construction, Hatteras, NC, foundations; Coastal Ready-Mix, Nags Head, NC, concrete supplier; Boston Design Corp., handrails & stairways; Island Woodcrafts, Manteo, NC, custom cabinets; Pella North Carolina, wood doors & windows; Wayland Jennette, Hatteras, NC, ceramic tile; A & B Carpets, Manteo, NC, resilient tile & carpet; Solar American Co., Inc., Newport News, solar specialties; Dare Air, solar specialties, heating/air conditioning contractors; Jordan Co., Elizabeth City, NC, plumbing fixture supplier; Bunting Plumbing (now Willis Plumbing), Frisco, NC, plumbing contractor; Ray Black Electric, Frisco, NC, electrical equipment supplier/electrical contractor; and Forest Products, Edenton, NC, interior/exterior juniper siding.



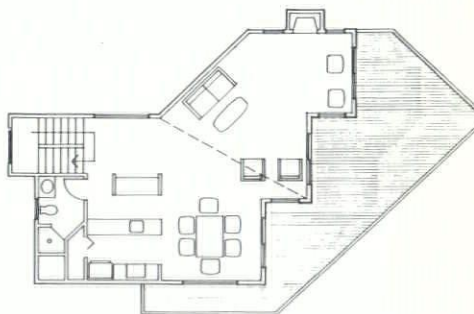
SITE PLAN



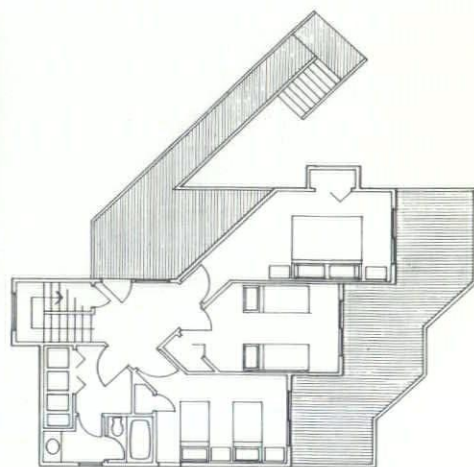
FOURTH FLOOR (CROWS NEST)



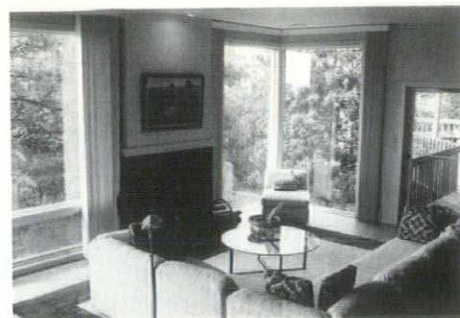
THIRD FLOOR



SECOND FLOOR

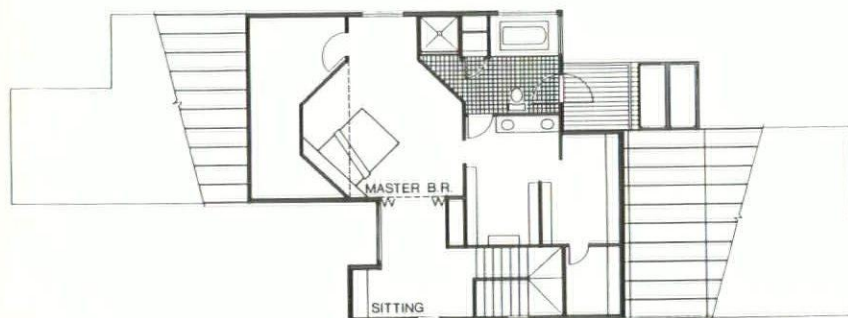


FIRST FLOOR

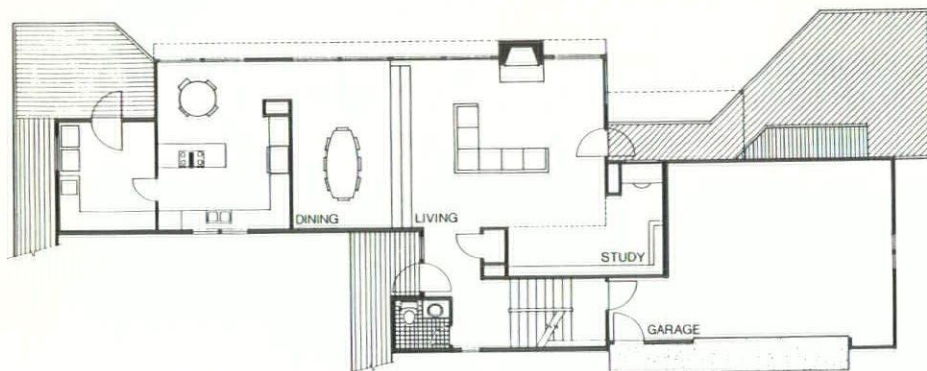


Myers Residence

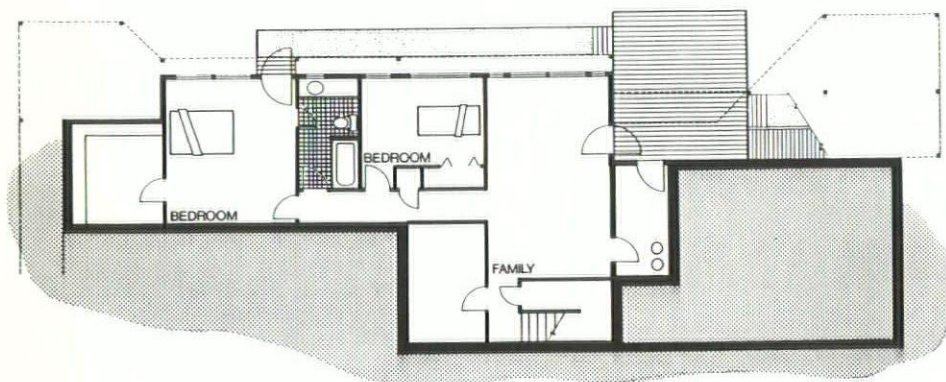
The Architects Alliance, Inc.—Architects



UPPER FLOOR PLAN



MAIN FLOOR PLAN



LOWER FLOOR PLAN

Owners: Ronald & Linda Myers • **Location:** Radford

Project Architect, Clark B. Lentz • **Landscape Designer,** Barry Johnson • **Interior Designer,** Judy Kuhlman • **Surveyor,** Anderson & Associates, Inc. • **Presentation Drawings,** Joanne Tucker • **General Contractor,** Paul Donohue Custom Builders • **Photography,** Clark B. Lentz.

CLIENT/PROGRAM

Ronald and Linda Myers are a professional couple with space needs for frequent visits by family and friends. Some professional study is done at home, but their residence, completed in November 1984, is primarily a place to escape the mental/emotional demands of their work.

The interior was to be comfortable and spacious, with minimal visual separation from the outdoors. The interior spaces and adjacent outdoor living areas were to project into surrounding trees to facilitate bird-watching, a favorite hobby. The traditional "front yard," and lawns in general, were to be avoided.

SITE

The site selected was a response to the client's program. The steep southerly slope, coupled with a dense stand of pine trees, would permit projecting decks at treetop level. The necessary cleared area over the septic field could be positioned to create striking views from the site to the south and southeast.

DESIGN SOLUTION

The lower level and main floor are elongated on the east-west axis to accommodate the steep slope and to maximize opportunities for capturing views and winter solar radiation. The master suite is placed at the upper level to create an "eyrie" overlooking the forest, and to enhance the sense of removal from the daytime living spaces. Four decks on three floor levels assure easy access to the outdoors. Interior spaces are bright, relaxed, and oriented to the exterior.

CONSTRUCTION MATERIALS/ENERGY ISSUES

Many simple techniques are utilized to minimize the amount of energy consumed by the Myers. The westward end of the house is buffered by the garage on the main floor and by closets on the upper floor. Earth-sheltering protects the lower floor on the north, east, and west. Exterior walls are 2 x 6 with R-19 batt insulation, R-4

sheathing, and 6 mil polyethylene vapor/infiltration barrier. Sealants and weatherstripping were included where conventional construction techniques permitted, with the goal of creating a house that is tight, but not "air-tight."

Domestic water heating is assisted by a drain-back solar collection system. The south wall is heavily glazed for direct-gain solar heating, in addition to the views described above. Cantilevered floor systems shade this glass in summer. A forced ventilation system incorporating four fans moves solar-heated air to the north side of the lower floor, where masonry walls and tile floors absorb and store the energy. The primary heating/cooling system consists of three high-efficiency heat pumps. Floor trusses and flat roof trusses were utilized, permitting all heat pump units and ductwork to be located within the insulated envelope. Operable windows at the peak of the master suite ceiling facilitate convective ventilation.

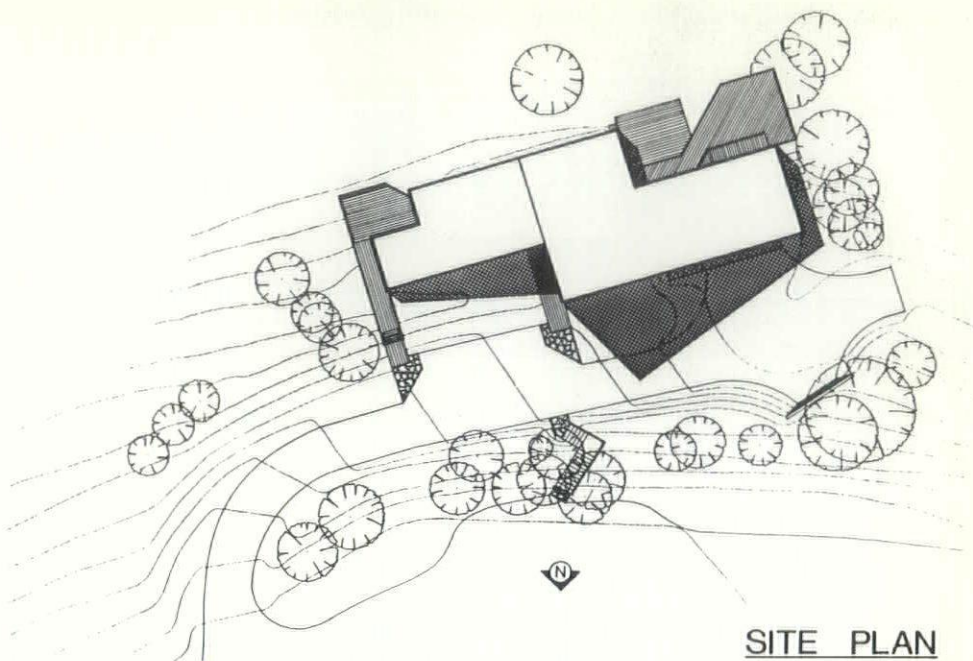
CONSTRUCTION CREDITS

Paul Donohue Custom Builders of Christiansburg was general contractor and handled foundations, concrete work, reinforcing, roofing shingles, handrails, carpentry, waterproofing, caulking, painting, plumbing and electrical work.

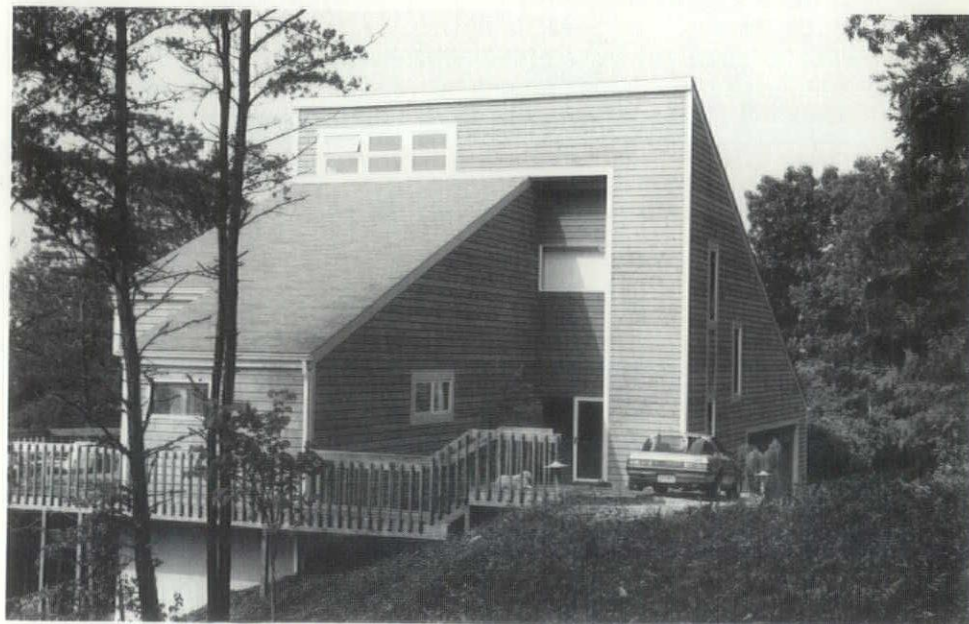
SUBCONTRACTORS & SUPPLIERS

(Christiansburg firms unless noted)
H.J. Snider, Blacksburg, excavating; Laurel Creek Nursery, landscaping materials & landscaping contractor; Marshall Concrete Products, concrete supplier; Keith Brothers Masonry Contractors, Pilot, masonry contractor; Tri-City Concrete Products (now Marshall Concrete Products), masonry contractor/supplier & mortar; Home Insulation Co., roof & wall insulation; Alderman Plastering Co., Dryvit foundation insulation & plastering contractor; Timber Truss Housing Systems, Inc., Salem, structural wood & wood doors; Norman's Cabinet & Woodworking Shop, Radford, millwork, cabinets & paint supplier (Pratt Lambert paints).

Also, Precision Glass & Upholstery Service, glass & glazing contractor; Pella Window & Door Co., Roanoke, windows; Skyline Paint & Hardware, Inc., Roanoke, hardware supplier; DeHart Tile Co., ceramic tile, carpet & wood flooring; Southwest Solar, solar heating equipment; Ferguson Enterprises, Inc. (Stevens Supply Corp.), Radford, plumbing fixture/lighting fixtures supplier; Home Comfort Heating & Air Conditioning, Radford, heating/ventilating/air conditioning contractor; and Electrical Supply Co., electrical equipment supplier.



SITE PLAN



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Dominion Pottery, Inc.

Kenneth C. Magalis, AIA—Architect

Discount Retail • Owner: Dominion Pottery, Inc. • Location: Doswell

Project Team: Project Architect/Designer, Kenneth C. Magalis, AIA • Owner's Representative, Brian Kornblau • Site Engineer, Goodfellow, Jalbert, Beard & Associates, Inc. • Structural Engineer, Thomas A. Hanson & Associates, Inc. (now Hanson Associates) • Geotechnical Engineer, Sayre & Associates, p.c. • Geotechnical Testing, Schnabel Engineering Associates • General Contractor, Brooks & Company General Contractors, Inc. • Photography, Kenneth C. Magalis, AIA.

PROGRAM

Dominion Pottery, Inc. had but one major goal when it chose a 34 acre site in Doswell, Virginia, near Kings Dominion. That goal was to offer quality products at below market rates, by reducing the overhead necessary to market same through facilities value engineering and energy conserving methods. The various elements of the owner's program dictated that the building would require a straightforward, no-frills approach to design and engineering. The complex had to function like clockwork to handle the anticipated crowds while maintaining certain creature comforts.

SOLUTION

The mammoth undertaking required that a four-lane highway with median strip be constructed to bring customers up to the 1500-car, 75-bus and R.V. parking area. A 12,200 square foot entry section serves to receive customers allowing them the opportunity to choose between proceeding to a 96,000 square foot multiple outlet mall or a 96,000 square foot pottery while milling through many small vendor/sales kiosks within the entry space. The apparent bare bones interior, while being a clean and efficient use of space, reflected the owner's particular desire to have the customer read into their marketing





approach that when overhead is kept low, then low prices will obviously be the end result.

ENERGY CONSERVATION FEATURES

In striving to contain overhead costs, the owner desired that low maintenance and low energy use techniques be employed in the architectural, mechanical and electrical schemes.

Architecturally, allowing the entry area to serve as a vestibule proportionate to the areas which it served, kept winter air flow from the two major sales areas. The use of multiple skylights throughout the facility served to reduce and practically eliminate daytime electrical lighting loads. Dock seals and weather stripping served to limit outside climatic influences.

Mechanically, after weighing several alternatives, it was determined that cooling of the pottery and entry areas would be provided by forced ventilation. Time clock-activated roof exhaust fans and motorized wall louvers would be energized from midnight until five A.M. to

induce cooler night air into the building and exhaust air, heated during the day, at the roof level into the atmosphere. During the day, on the few days of the year when this exhausting of air could not completely cool the building, paddle fans and wall fans serve to keep the warmer air in a constant state of movement. Thus the team achieved their goal of economy through simple ventilation methods thereby eliminating the need to air condition the space.

Heating of these spaces is achieved through the use of infra-red Reflect-O-Ray heating systems. Given the 18-foot-plus high ceilings of the pottery, infra-red heating proved to be the most practical solution over more difficult and expensive conventional systems.

Infra-red heating is not a new concept, though it has seen limited application in Virginia. It accomplishes heating in basically the same way that the sun heats the earth, that is, it heats objects rather than air. These objects, or storage masses, in turn release their heat through convection to the surrounding environment. In this particular application, the heat would be stored in the concrete slab floor and fixtures within the building and released only as needed to maintain the ambient temperature specified by the thermostat setting. Since the heating effect originates predominately at floor level, the temperature stratification characteristics of warm air systems is virtually eliminated, resulting in an uncommonly even comfort zone.

The system consisted of 20, 120,000 BTUH, input propane burners, 10 vacuum exhausters, and 10 thermostats. Reflect-O-Ray claims an 86% annual fuel usage efficiency, and is the original dry tube, vacuum infra-red heating system. While other manufacturer's claim a slightly



higher AFUE rating (90%), it was felt that by not allowing internal temperatures to drop below condensation levels (the extremely acidic by-products of combustion never reach liquid form), the potential for system corrosion and future service problems were significantly lowered.

In the final analysis it was decided that even though the infra-red system would require an additional investment of approximately \$34,000 in heating equipment and installation costs when compared to a unit heater heating system, the increased efficiency (an estimated annual fuel savings of \$30,000 for the pottery area, or a payback period of less than two years), and the superior comfort level achievable with infra-red heat, made it the most cost effective and desirable system available for this application.

The overall project was fast tracked whereby the final design of each phase of the work was being completed just prior to starting work on same. The entire project was completed in six months, from the ground breaking to the grand opening.

Contract Cost: \$3,900,000
Building Cost/sq. ft. exclusive of highway and site development: \$12.83/sq. ft.
Energy savings per year over conventional systems: \$50,000

CONSTRUCTION CREDITS:

Brooks & Company General Contractors, Inc. was general contractor and handled concrete, excavating, carpentry and drywall.

SUBCONTRACTORS & SUPPLIERS

(Richmond firms unless noted)
F.W. Vaughan, Inc., Amelia, excavating; Lytle Utilities, Inc., utilities; Lee-Hy Paving Corp., paving contractor; Jarco Construction Co., Ashland, concrete contractor; Massey Concrete Corp., concrete supplier; A & S Building Systems, Inc., Kingsport, TN, steel supplier; Three C's Construction Co., Inc., Chilhowie, steel erection; Western State Insulation Co., Roanoke, insulation.

Also, Pleasants Hardware, hollow metal doors & frames & hardware supplier; Perkins & Glass, Inc., storefront—aluminum doors & windows; University Painters, Inc., painting contractor; Conti Sprinkler Co., Inc., Mechanicsville, sprinkler contractor; Southworth Mechanical Corp., plumbing & HVAC; Tate & Hill, Inc., electrical contractor; and Overhead Door Co. of Richmond, overhead doors.

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Central Library

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Owner: City of Virginia Beach • Location: Virginia Beach

Project Manager, Richard J. Fitts, AIA • Interior Designer, W. Ray Jennings, Interior Design • Site Engineer/Surveyor, Overman Associates, P.C. • Structural Engineer, Stroud, Pence & Associates, Ltd. • Mechanical/Electrical Engineer, Old Dominion Engineering • Geotechnical Engineer, ATEC Associates • Soils Testing Engineer, Tidewater Testing Div. Double F. Enterprises, Inc. • General Contractor, Conrad Brothers, Inc.

As one of the Virginia's fastest growing cities, Virginia Beach is characterized by constant growth and change. Meeting the present and future needs of a constantly expanding population is the dominant political and economic reality for the city.

In response to pressure on the city's libraries, Virginia Beach commissioned The Design Collaborative to design a 95,000 square foot Central Library emphasizing flexibility, efficiency, economy and value.

The Central Library is organized into three functional zones on two floors. Areas for the public library services were designed as predominantly open-plan spaces located on the ground floor and on a mezzanine which overlooks the main information desk. This open planning allows for maximum flexibility in arranging the furniture and equipment, makes the library services more visible and accessible, and allows full service operations with a smaller staff. Meeting rooms and a 250-seat auditorium occupy a separate wing which can be effectively used whether or not the main library is open. Administrative offices and support services are grouped around two courtyards in a two-story wing at the rear.

The Central Library has been designed for optimum energy efficiency to reduce operating costs. Computer analysis of preliminary building design alternatives confirmed that the major

energy costs will be for lighting and air conditioning. Lighting was predicted to account for 35 percent of the building's annual energy use with air conditioning at 42 percent.

Responding to these specific energy loads, the building's architectural features, lighting and HVAC systems have been carefully designed to use natural daylighting and to reduce cooling loads.

The Library's unique shape is directly expressive of the building's orientation toward the sun. Designing the building to collect natural daylight reduces lighting energy costs significantly and creates a cheerful, light interior especially suitable for a library. The building plan is elongated on the east-west axis to maximize the amount of south-facing windows. The stepped roof creates ribbons of clerestory windows which bring daylight to interior spaces far from the outside walls. Two courtyards create lightwells providing natural light, views, and natural ventilation to rooms which otherwise would be interior spaces.

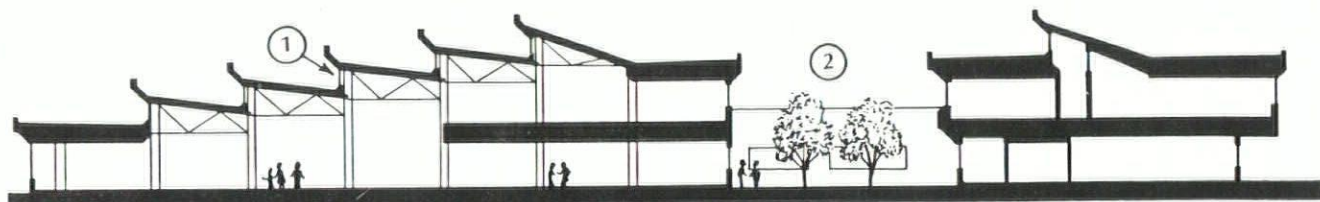
Special efforts have been made to assure that the natural daylighting does not create problems such as excessive contrasts and glare. Ceiling hung acoustical baffles are located under all the clerestory windows to intersect and reflect beams of daylight. This creates an indirectly daylighted environment designed for visual comfort and efficiency. For increased sav-

ings the electrical lights in these areas are automatically dimmed in response to the amount of daylight present.

Several energy-efficient design strategies have been included in the project to reduce air conditioning costs. The most visible of these features are the roof overhangs which shade the windows during hot summer months. The size and shape of these overhangs which have been carefully calculated to admit more direct light and solar heat during the cold winter months. Other cooling-load reduction features include a reflective white roof, high levels of insulation, a floor plan which eliminates all east and west-facing windows, and special glass that admits more visible light and less solar heat.

The Central Library's opening day collection will be 150,000 books and media, with a planned future capacity of 400,000 items. Library Director Martha J. Sims' belief that books may not be the dominant library materials in coming years is representative of the Library Department's commitment to planning for the future. Therefore, the building program stressed the need for a flexible library which can readily adapt to technological and functional changes.

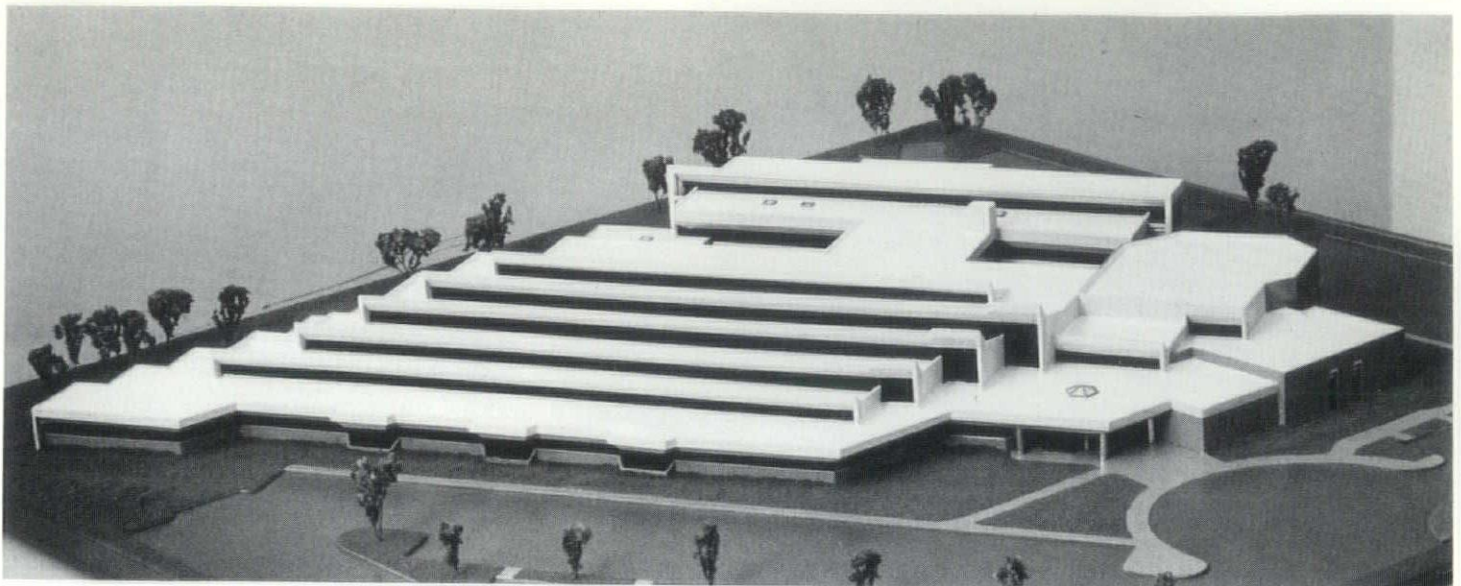
All aspects of the building were examined to identify opportunities to build-in adaptability to future needs. An extensive system of in-floor raceways allows easy relocation of electrical and communication equipment. The number of



BUILDING SECTION

50' / 40m

1 CLERESTORY WINDOW
2 COURTYARD



structural columns and walls was minimized. Book stacks with integral lighting fixtures were selected so that they can be relocated without moving the ceiling lights.

Other special features include lighting designed to accommodate the extensive use of video display terminals at micro-computers, automated card catalogs, and similar equipment. Handicapped accessibility has been given a top priority, from the fully automatic entry doors to a special sound system in the auditorium. Security measures to reduce book loss include electromagnetic locks which open secondary exit doors only in an emergency.

Materials and equipment were selected for long term economy and value as well as for function, appearance, and initial cost. Low maintenance and durability have been emphasized in all aspects of the building from the brick, glass,

and metal panel exteriors to the selection of heavy-duty carpet and furniture.

As a creative response to complex present and future library needs, the Virginia Beach Central Library sets a high standard of achievement. As an energy efficient daylighted building, the Central Library will encourage similar buildings by demonstrating the combined benefits of economy and beauty. Because of the many features providing for flexibility, the Library is expected to continue to serve Virginia Beach residents well into the 21st Century.

Conrad Brothers, Inc. of Chesapeake is general contractor for the project.

SUBCONTRACTORS & SUPPLIERS

Other Chesapeake firms are: N.L.S. Co., Inc., reinforcing steel; Oliver Jacobs Construction Corp., concrete work; Sprinkle Masonry, Inc.,

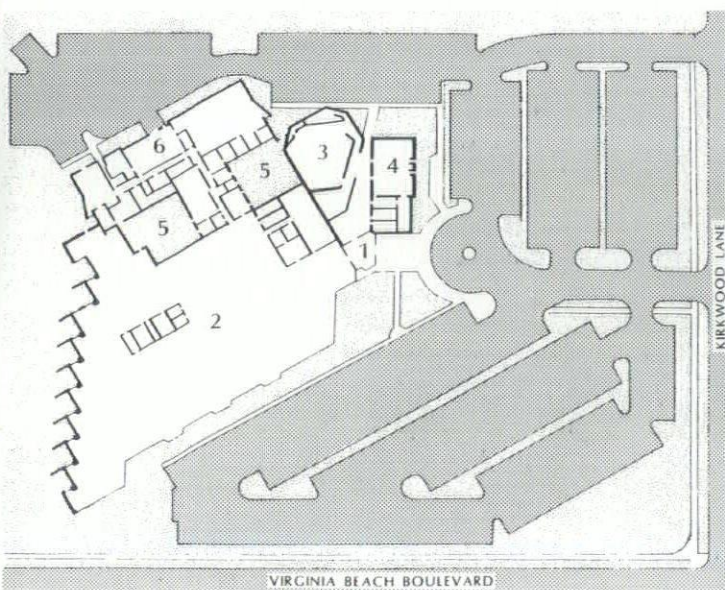
block and brick, cementitious and bituminous waterproofing; Chesapeake Partition, Inc., cold formed metal framing lath & plaster, gypsum wallboard system; and Superior Floor Covering, Inc., carpet & carpet tile.

From Virginia Beach are: East Coast Corp., clearing, stripping, topsoil, grading & fill; Forrest Exterminating Service, Inc., termite control; Contractors Paving Co., Inc., stone & asphalt; Architectural Paving Products of Virginia, hollow metal & finish hardware; and Overhead Door Co. of Norfolk, Inc., overhead coiling door.

Norfolk firms are: Holly Concrete Construction Co., curbs, gutters, & sidewalks; Hall-Hodges Co., Inc., reinforcing steel; Lone Star Industries, Inc., ready mix concrete; H & L Corp., cabinets & counters, window stools, vanities & wood doors; Baker Roofing Co., roofing & sheetmetal & skylights; Walker & Laberge Co., Inc., aluminum windows, storefront & glazing; Ferrell Linoleum & Tile Co., Inc., acoustical treatment & ceilings; Howard E. Marquart & Co., corner & wall guards, sun control devices & metal wall panels; Otis Elevator Co., passenger elevators; and Fire-X Corporation, Halon system.

And, from Portsmouth are: W.F. Oliver & Sons, Inc., utilities & storm drainage; K & P Caulking Co., Inc., thermal & moisture protection; and Bay Tile & Carpet Corp., ceramic floor & wall tile.

Others are: Macks Iron Co., Inc., Chester, industrial steel & steel joists, metal decking & miscellaneous metals; Newman Brothers, Inc., Cincinnati, OH, stainless steel rail & glass; W.F. Stovall & Co., Inc., Ashland, composite metal panels; Virginia Automatic Door Co., Richmond, automatic sliding doors; Essene Painters, Hampton, special coatings, painting & wall covering; The Best Partitions, Inc., Summerville, SC, plastic toilet, partitions & urinal screens; Irvine Erectors, Inc., Harman, MD, access flooring; Wythe Contract Sales Co., Newport News, louver blinds; Roanoke Engineering Sales Co., Inc., operable partitions; Warwick Plumbing & Heating Corp., Newport News, HVAC & plumbing; Worsham Sprinkler Co., Inc., Ashland, fire sprinkler; and Starr Electric Co., Inc., Richmond, electrical work.



- 1 ENTRY LOBBY
- 2 MAIN LIBRARY SPACE
- 3 AUDITORIUM
- 4 MEETING ROOM
- 5 COURTYARDS
- 6 STAFF AREAS

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The Regional Building

The Design Collaborative—Architects

Location: Chesapeake

Project Architect/Designer, Edward G. Lazaron, AIA • Landscape Architect, Higgins Associates, Inc. • Interior Designer, Chasen's Office Interiors • Site Engineer/Surveyor/Structural Engineer, William C. Overman & Associates • Mechanical Engineer, Old Dominion Engineering • Geotechnical Engineer, ATEC Associates • General Contractor, Duke and Associates, Inc.

The new joint office building for the Southeastern Virginia Planning District Commission (SVPDC) and Southeastern Public Service Authority (SPSA) is a 16,000 square foot, one-story structure, located on 1.5 acres near Interstate 64 in the Greenbriar area of Chesapeake, Virginia. Site constraints, an east facing water view, and the need for maximum parking created a challenging situation for an energy efficient/solar building.

A combination of energy conservation measures and natural daylighting strategies was used to provide optimum efficiency for a building with large east-west exposures. To reduce the cooling load caused by summer sun on the long east and west elevations, deep overhangs and vertical fins shade the walls and reflect light into the office windows. Vertical blinds on the east, west and north windows aid in controlling the low sun which falls on those walls, while horizontal blinds give maximum control to those on the south.

Insulating glass in thermal break window frames, combined with heavily insulated roof and walls, provides an optimum energy conservation package for the building's shell. Computer analysis indicates that this building will operate at or below the proposed Federal Building Energy Performance Standard of 40,000 BTU/square foot/year.

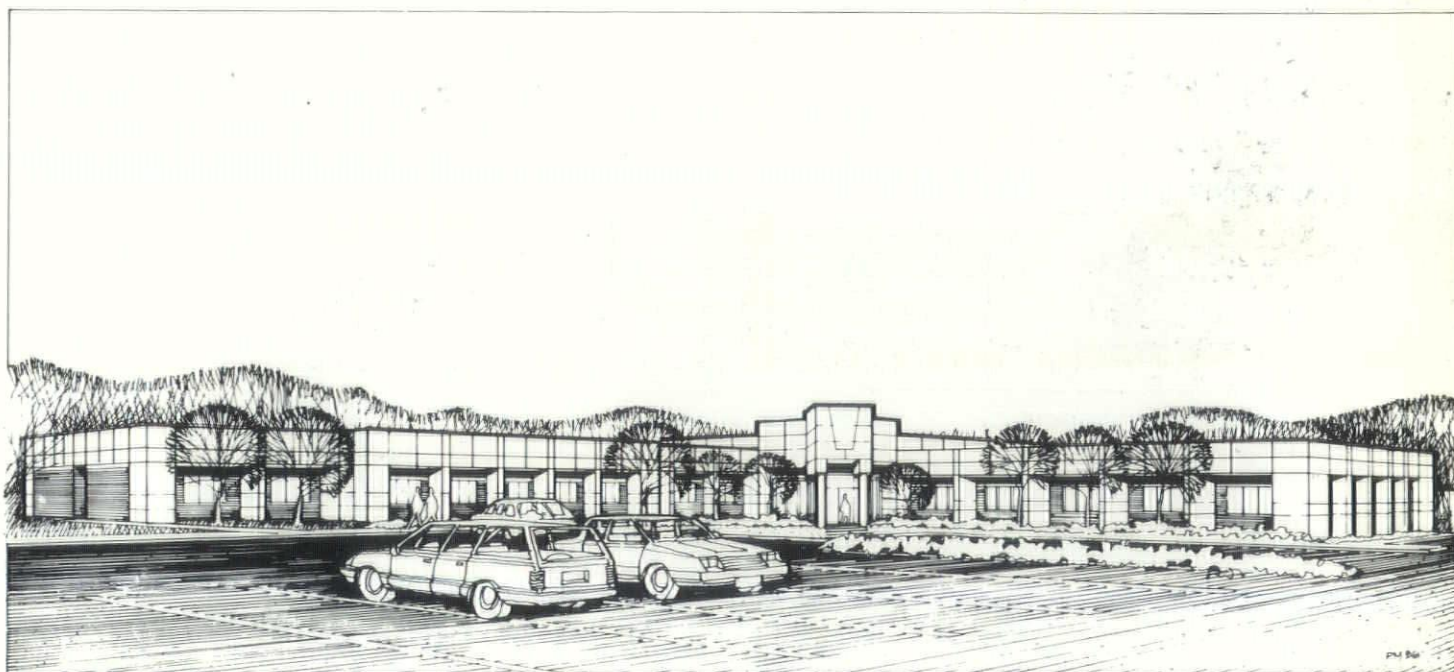
Building materials were chosen for low maintenance, energy efficiency and to express the public service mission of these two organizations. The exterior, rose-colored brick and composite stone panels recall the materials of early Virginia municipal buildings. Composite stone was selected as an economical, maintenance-free alternative to natural stone.

In addition to increasing energy efficiency, natural daylighting was used to create a pleasant and comfortable work environment. Skylights over the central lobby and corridors accent pleasant, daylighted atriums filled with plants.

These natural points of reference provide visual variety and relief from the intense work routine. Exterior baffles over the skylights were designed to control glare and prevent overheating in summer. Throughout the building, windows in interior offices will allow the occupants to further benefit from the natural daylight.

Special planning requirements of the clients were successfully resolved by creating an "L" shaped plan which is zoned so that the shared public spaces are centrally located near the lobby, with each organization having its own wing. Within each office area, noisy activities such as reproduction and word processing are isolated from offices by heavily soundproofed walls. Trees and bushes are used to shade the building, emphasize the entrance, and reduce distractions from the parking lot.

The Regional Building successfully responds to the varied requirements of its future users by combining efficiency, economy, beauty and func-



tion. The result is a unique building tailored to the specific needs of its owners and providing them with the facilities in which to best perform their work.

Duke and Associates, Inc. of Virginia Beach is general contractor for the facility.

SUBCONTRACTORS & SUPPLIERS

Other Virginia Beach firms are: Architectural Products of Virginia, hollow metal, wood doors & hardware; Forrest Exterminating Service, Inc., termite control; The Lawn Rainer, irrigation system; Professional Sales, louver blinds; Sadler Materials Corp., ready mix concrete; and Seaboard Building Supply Co., toilet partitions.

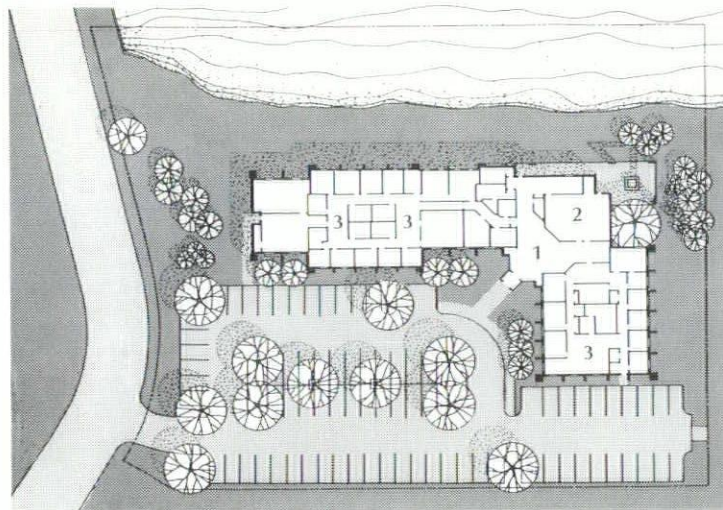
Norfolk firms are: AWS, Ltd., synthetic stone panels; Door Engineering Corp., operable partition; Eastern Roofing Corp., roofing, sheetmetal & skylights; Hall-Hodges Co., Inc., reinforcing steel; Hampton Roads Door & Hardware, Inc., projection screen, fire extinguishers & cabinets; Hudgins Masonry, Inc., masonry work & concrete pavers; Pittman Mechanical Contractors,

Inc., mechanical work; RA-CAL Construction Co., site utilities; Walker & Laberge Co., Inc., storefront & windows; Grover L. White, Inc., ceramic tile; Williams Paving Co., Inc., asphalt paving; and Winn Nursery, Inc., landscaping & sodding.

And, from Chesapeake are: L.E. Ballance Electrical Service, Inc., electrical work; Bartone Steel Fabricators, Inc., structural steel, steel joists, metal deck & miscellaneous metals; DJW Construction Co., Inc., sitework; Howard E.

Marquart & Co., sun control louvers; Smith-Gerloff Painting & Decorating, Inc., painting; and Superior Floor Coverings, Inc., resilient flooring.

Others are: Gallery Interiors, Inc., Pittsburgh, PA, metal studs, insulation, drywall & acoustical ceilings; Herrin Brothers Erection Co., Inc., Portsmouth, caulking; Irvine Access Floors, Harman, MD, access floor; Olde Virginia Cabinets, Suffolk, cabinets & millwork; and Roanoke Engineering Sales Co., Inc., Richmond, toilet accessories.



- 1 LOBBY
- 2 BOARD ROOM
- 3 ATRIUM

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Campus Point at Campus Commons Office Park

Davis & Carter, P.C.—Architects

Developer: Lee Samis Associates, Inc. • Location: Reston

Project Designer, Douglas N. Carter, AIA • Landscape Architect, Greenspace, Inc. • Interior Designer, Davis & Carter, P.C. • Site Engineer/Surveyor, William H. Gordon & Associates • Structural Engineer, MMP • Mechanical/Electrical Engineer, Girard Engineering • Specification Consultant, Donald E. Smith, CCS, CSI • General Contractor, Sammis Construction Co. • Photography, Andrew Lautman.

Campus Point office building, located off Sunrise Valley Drive, Reston, Virginia, is situated in the business core of the planned community of Reston.

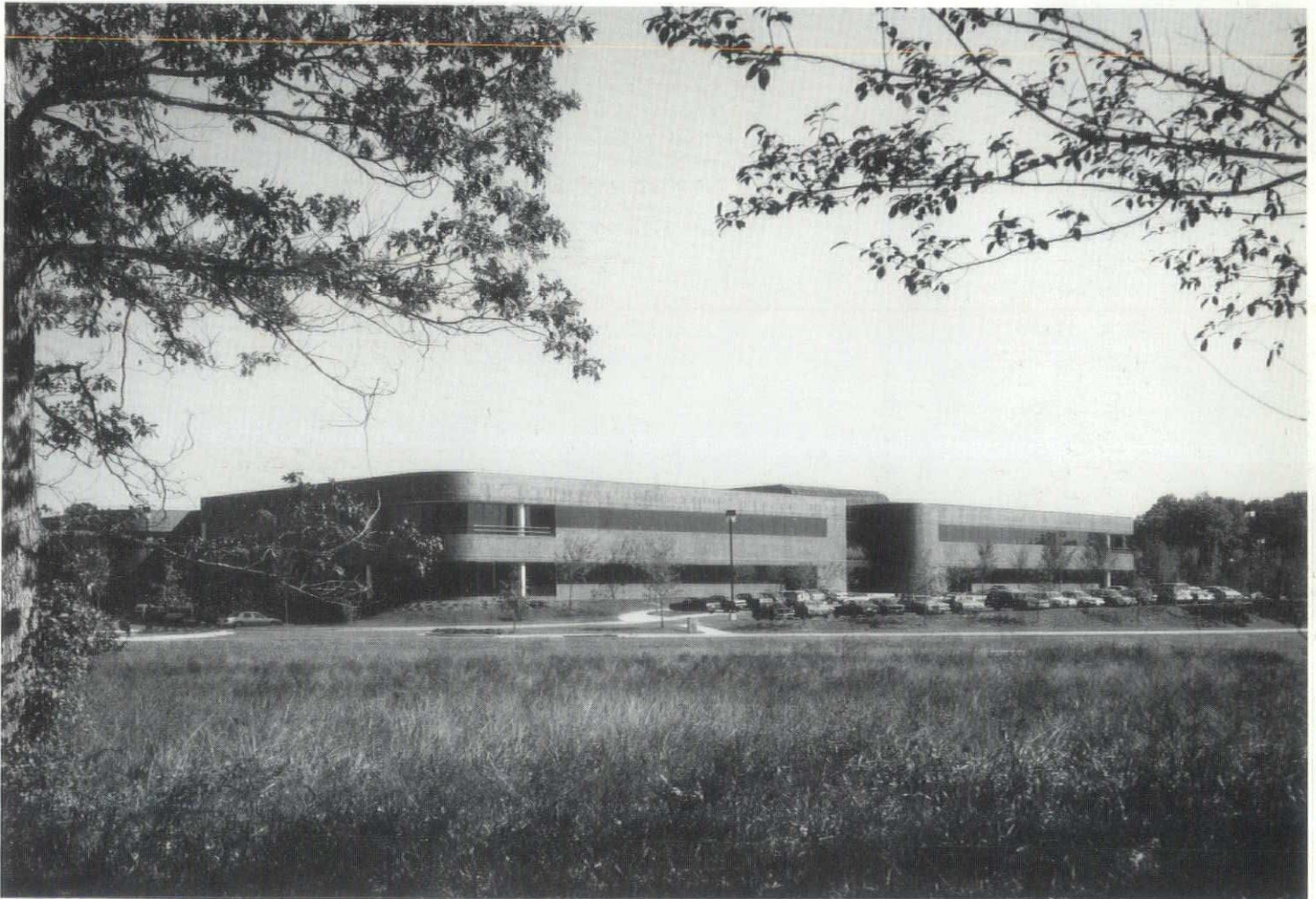
Developed by Lee Sammis and Associates, the two-story, 180,000 SF office structure sits on 10.3 acres within the 34 acre Campus Commons Office Park.

The building is a two-story, H-shaped structure composed of brick and glass with a center courtyard and two entrance atriums. The building's lively articulation of form and brick color complement the Campus West office building, also designed by Davis & Carter, P.C., which is

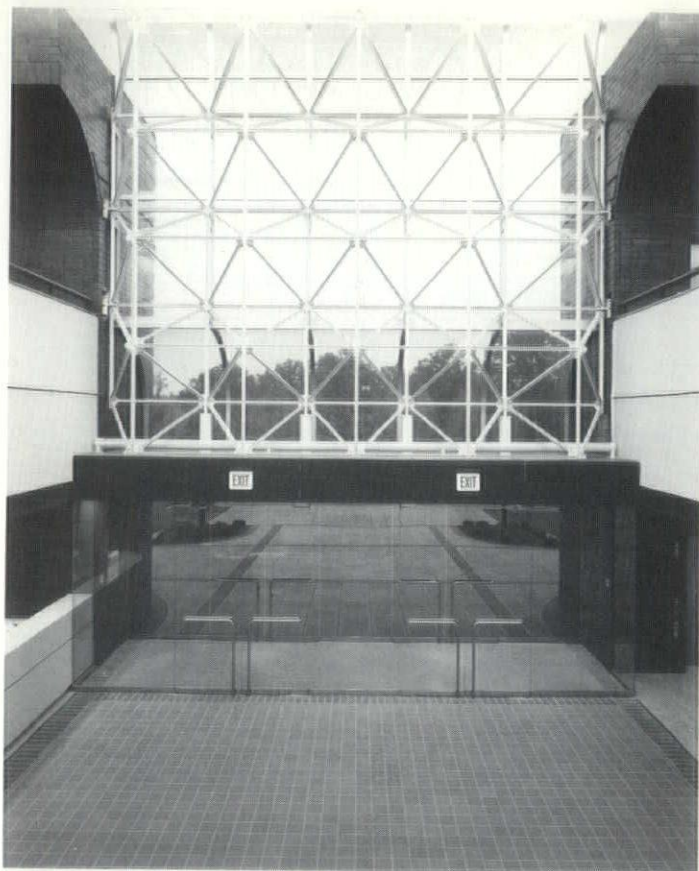
located on the site adjacent to this building. Campus Point was designed to conform to the environment, leaving the existing mature trees and natural setting undisturbed.

Campus Point's structural system details concrete frame and waffle slab construction. The entrance exterior of the building boasts an expansive space frame of aluminum and glass, allowing for an abundance of natural lighting to infiltrate into the interior courtyard.

This courtyard, of lush plantings and fine art representation, welcomes visitors to the building through the main entrance. Additionally, the courtyard reflects the building's exterior brick







materials and complements the building's overall design. A center staircase provides access to the second floor and a view from the height of the stairs into the courtyard below.

Campus Point's floor sizes were designed to accommodate high technology users with generous open plans and floor loads. First American Bank Data Services is the major tenant with a total occupancy of 134,260 SF and Software Productivity Consortium hold their operations on 44,890 SF of the facility. Each of these tenants is involved in highly sophisticated software programming and productivity.

As architect of the building, Davis & Carter, P.C. was responsible for master planning, schematic designs, design development drawings, contract documents and construction administration. The interiors division of the firm responded to the interior architecture requirements and tenant planning and interior design for First American Bank Data Services.

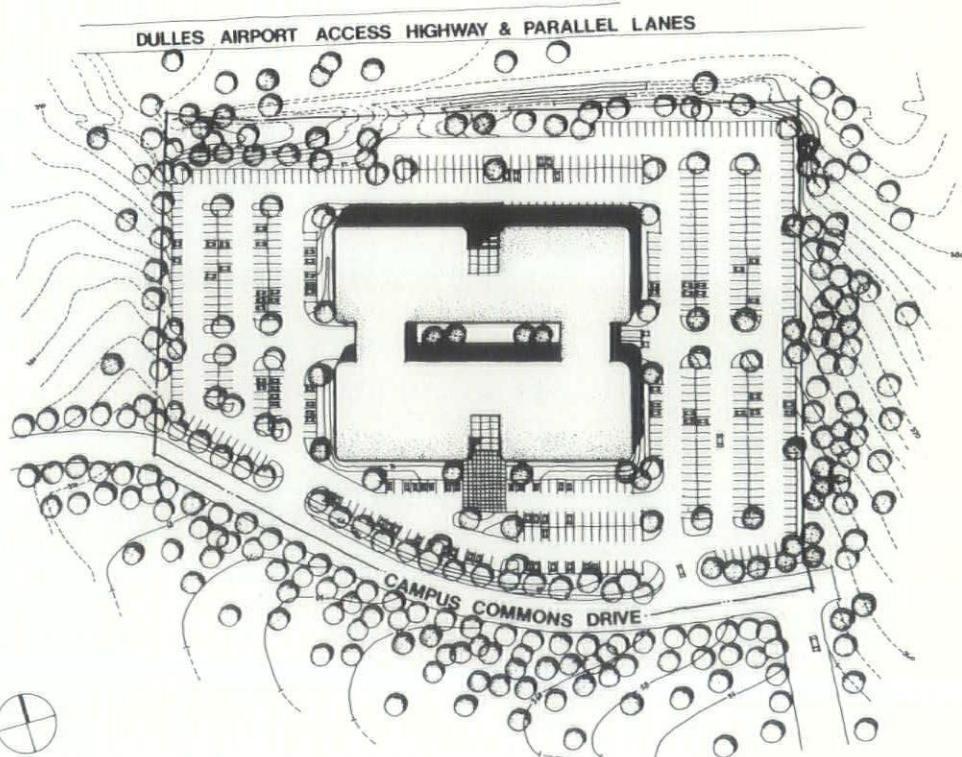
The Campus Point office building was the recipient of an honor award in August 1985, from the Masonry Institute's Design Award Competition for its architectural design.

The construction start of the project was September 1983 with a completion in the last quarter 1985.

Sammis Construction Company of McLean was general contractor for the project.

SUBCONTRACTORS & SUPPLIERS

Phoenix Development Corp., Oakton, excavating & paving contractor; Greenspace, Inc., Gaithersburg, MD, landscape materials & landscap-



ing contractor; SMC Construction, Inc., Alexandria, foundations, concrete contractor, reinforcing & concrete supplier; L.F. Jennings, Inc., Falls Church, masonry contractor; Endicott, Fairbury, NE, masonry manufacturer; Potomac Valley Brick & Supply Co., Rockville, MD, masonry supplier & mortar; Hallmark Iron Works, Inc., Newington, miscellaneous metal & handrails; Virginia Roofing Corp., Alexandria, roofing, roof insulation & sheet metal; P & P Contractors, Rockville, MD, wall insulation & gypsum board

contractor; and Architectural Woodworking, Inc., Rockville, MD, carpentry.

Also, Prospect Enterprises, Inc., Sterling, waterproofing; Tonstad Caulking Co., Inc., Alexandria, caulking; Custom Walls & Windows, Inc., Laurel MD, glass, windows, window wall & storefront; Allen Glass Co., Inc., Alexandria, glazing contractor; Builders Hardware Corp., Rockville, MD, metal doors & frames & hardware supplier; B&F Ceramic Tile, Inc., Spring-

field, ceramic tile; Woodmont Carpet Co., Rockville, MD, resilient tile & carpet; Hamblen Brothers, Inc., Vienna, painting contractor; Klion O. Row, Inc., Rockville, MD, specialties; Westinghouse Elevator Co., Beltsville, MD, elevator; The Fireguard Corp., Capitol Heights, MD, sprinkler contractor; Kramer, Kensington, MD, plumbing contractor; and Continental Electrical Contractors, Inc., Annapolis, MD, lighting fixtures/electrical equipment supplier & electrical contractor.



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Lewinsville Day Health Care Center For Older Adults

Helbing Lipp, Ltd.—Architects

Owner: Fairfax County Department of Health Services • Location, McLean

Project Architects/Designers, David A. Lipp, AIA and James R. Cross, AIA • Owners Representative, Mrs. Kathryn Larmer • Interior Designers, Wendy Harding and James R. Cross, AIA • Cost Consultant, J.A. Jensen & Associates • Structural Engineer, Thomas C. Helbing, AIA, PE • Mechanical Engineer, J.G. McNabb • Electrical Engineer, Alex R. Perez & Associates • General Contractor, Pagano Construction Co. • Photography, Dan Cunningham.

The Lewinsville Day Health Care Center for Older Adults, located at 1609 Great Falls Road in McLean, Virginia, is an adaptive re-use project completed in July 1985.

OWNER'S PROGRAM

The program called for the total renovation of the cafeteria and kitchen portions of the existing Lewinsville Elementary School. The 5,500 sq. ft. space had to be designed specifically to meet the special needs of 40 elderly and handicapped clients, plus nine staff members who would occupy the facility during the day. The space had to have its own outside entry, and be designed so that it could be made secure from the rest of the facility. The overall appearance had to be bright, cheerful and inviting.

SITE DESCRIPTION

The site is nine acres in size, and has 623 ft. of frontage on Great Falls Road. The land slopes

gently from the street down to the building front and then levels off. The building is placed to the back northeast corner of the property. Residential areas are adjacent to all four sides of the site.

DESIGN SOLUTION

Virtually all clients are brought to the Center by automobile or van, and so the Center was designed with the main entry facing the direction from which vehicles would approach. The front elevation is bright, cheerful and inviting. It utilizes high contrast colors, along with bay window design elements and awning styled roofs.

The facility is designed specifically for elderly and handicapped clients, and this starts at the front entry area. The covered canopy provides protection during inclement weather. There are wall-to-wall entry mats outside and inside the vestibule that will not shift or roll up. Entry doors are push-button operated and do not have thresholds. The reception desk has been designed to be the central control point for the facility. It has visibility to all major client activity areas. All exterior doors are alarmed, and the control panel is located at this desk.

The multi-purpose space is the hub of the Center. All the major areas are accessed from this room. Special emphasis has been given to home associations which give clients a sense of comfort and security. Some of these associations are the use of double hung windows, drapes and traditional furnishings.

Toilets were designed without entry doors, only vision baffles. All toilet partitions are ceiling hung and all fixtures are wall hung.

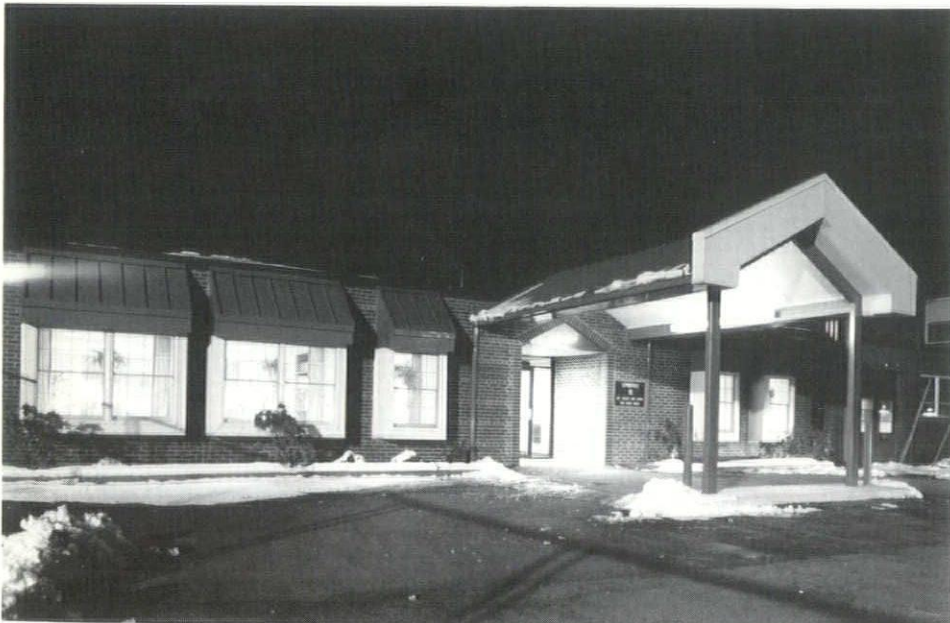
Other spaces included in the Center are as follows: staff room, quiet room with bay windows, clinic, serving kitchen adjacent to dining, crafts room, and outdoor screened porch addition with fenced-in courtyard.

Lighting was achieved by the use of low glare parabolic fluorescent-type fixtures.



BEFORE

AFTER



The space is heated with two systems to eliminate drafts and temperature swings. The perimeter zone utilizes low perimeter hot water baseboard heat, while the central zone uses forced hot air.

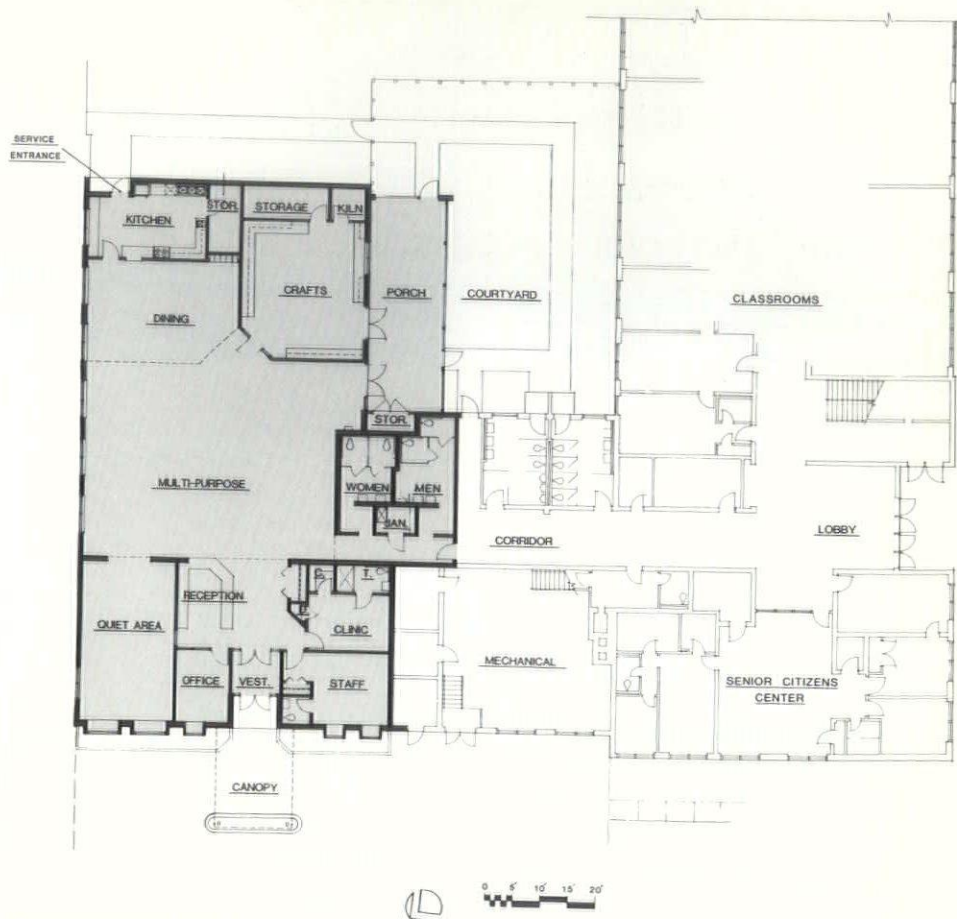
CONSTRUCTION CREDITS

Pagano Construction Company of Vienna was general contractor for the project. The firm also handled excavating, sodding, seeding, etc., landscaping, foundations, concrete work, carpentry, caulking and gypsum board.

SUBCONTRACTORS & SUPPLIERS

Fairfax Asphalt, Merrifield, paving contractor; Falcon Materials, Inc., Sterling, concrete supplier; BRT Masonry, Temple Hills, MD, masonry contractor; Hallmark Iron Works, Inc., Newington, steel supplier/erection/joists/roof deck, other roof deck, steel grating & miscellaneous metals; Clancy/Robb Assoc., Langley Park, MD, plastic handrails; Tart Lumber & Millwork Co., Inc., Sterling, millwork; Arlington Woodworking & Lumber Co., Inc., McLean, cabinets & windows; and Stanco Corporation, Baltimore, MD, cabinets & dishwasher.

Also, Gheen Roofing Co., Ltd., Manassas, other roofing; Davenport Insulation, Inc., Springfield, wall insulation; Jalgor, Inc., Springfield, sheet metal roofing, sprinkler/plumbing/heating/ventilating/air conditioning contractor & plumbing fixture supplier; Commercial Glass Co., Inc., Bladensburg, MD, glass, glazing contractor & storefront; American Door Co., Beltsville, MD, metal doors & frames, wood doors & hardware supplier; Adina Tile, Annandale, ceramic tile; ACI, Fairfax, acoustical treatment; Fairfax Tile & Carpet Co., Inc., Alexandria, resilient tile & carpet; Moshonas & Moshonas, Hyattsville, MD, painting contractor (Glidden Paint); SWG, Baltimore, MD, toilet accessories; Dixon Products, Temple Hills, MD, toilet partitions; Bev's Ceramics, Inc., Fairfax and Sears Contract Sales, Bethesda, MD, kitchen equipment; and Mac Electric, Beltsville, MD, lighting fixtures/electrical equipment supplier & electrical contractor.



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Braddock Place

CHK Architects & Planners

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• Location: Alexandria

Landscape Architect, Urban & Associates • Site Engineer/Surveyor, Holland Engineer • Structural Engineer, SK&A • Mechanical/Electrical Engineer, Glard Engineering • Geotechnical Engineer, Schnabel Engineering • General Contractor, OMNI Construction, Inc.

PROGRAM

With the coming of a new Metro station in a predominantly industrial area, the city of Alexandria recognized the need to improve the surrounding neighborhood. The city sponsored an architectural competition for the commercial development of a key site near the station.

SITE:

Braddock Place is located on the site of the former Parker Gray School in Alexandria. The complex is situated on a long, narrow four-acre site adjacent to the new Braddock Road Metro Station.

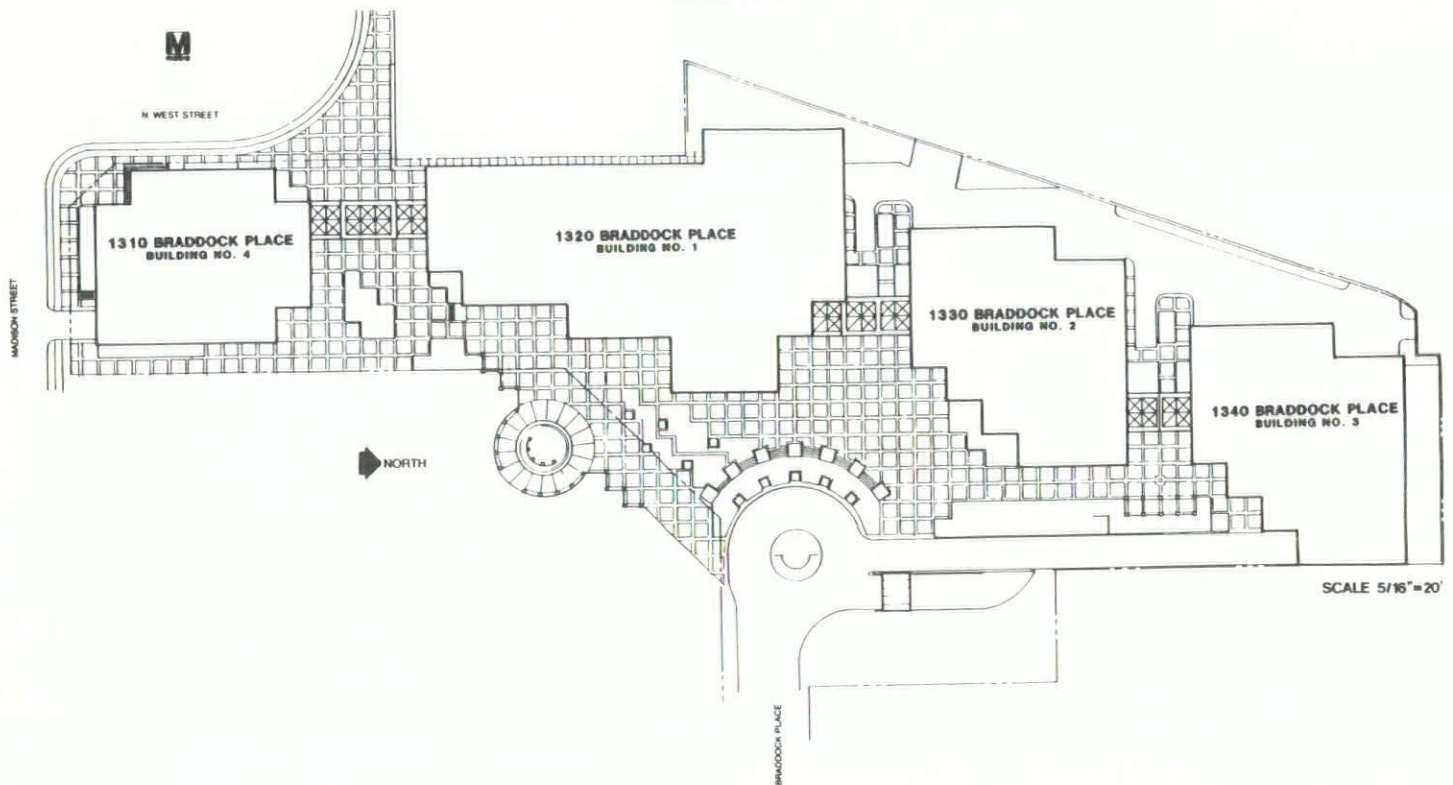
SOLUTION

The first phase of Braddock Place consists of four office buildings, with a total of 294,000 square feet of commercial space and 50,000 square feet of retail space. The buildings are of different shapes and graduate in height from four to seven stories, with open balconies and short metal roof caps. This creates an attractive terraced effect, and maintains a consistent scale with the low-rise buildings in the immediate area.

The design establishes a transition from the historic, traditional architecture associated with Alexandria to a more modern, high tech look. Red brick is the main element used, accented by blue-green roof caps and reddish brown cast



SITE PLAN



stone on the building bases, on window lintels and on false keystones in the arches of the street-level pedestrian arcade.

The arcade provides a sheltered walkway from building to building, which runs the length of the project. It is the entry point for retail shops, restaurants and business amenities.

Shade trees, a fountain, and bench-lined walkways make the landscaped plazas particularly

appealing for the people working at and visiting Braddock Place.

CONSTRUCTION CREDITS

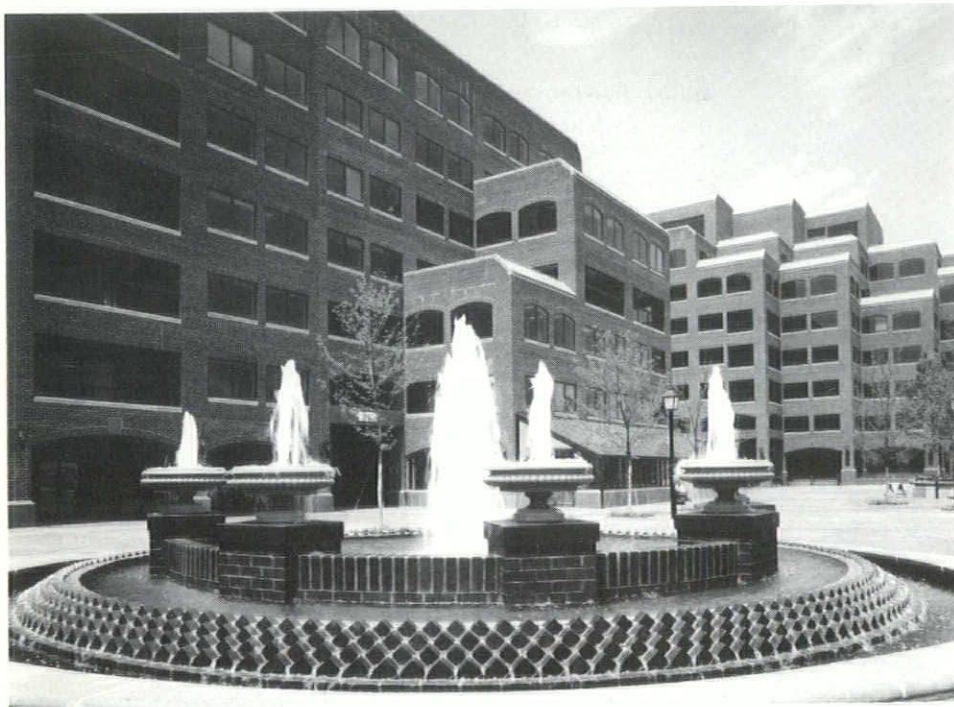
OMNI Construction, Inc. of Bethesda, Maryland was general contractor for the project.

SUBCONTRACTORS & SUPPLIERS

John Driggs, Co., Inc., Capitol Heights, MD, excavating; Schnabel Foundation, Co., Bethesda,

MD, piling; Greenbrier Farms, Woodbine, MD, landscaping contractor; Fort Meyer Construction Co., Washington, DC, paving contractor; Miller & Long Co., Inc., Bethesda, MD, foundations & concrete contractor; Batch Paint, concrete supplier; Shenandoah Masonry, Inc., Winchester, masonry contractor; Lake Brickworks, masonry manufacturer; Potomac Valley Brick & Supply Co., Rockville, MD, masonry supplier; Riverton Corp., Riverton, Flamingo mortar; W.N. Russell, Westmont, NJ, stonework contractor/supplier; Superior Iron Works, Inc., Sterling, steel grating & miscellaneous metal; A.A. Diefenbaugh, Harrisburg, PA, built-up roof; Prospect Enterprises, Inc., Sterling, roofing, roof insulation & waterproofing; and P & P Contractors, Rockville, MD, wall insulation & gypsum board contractor.

Also, Sterling Factories, Erie, PA, handrails; Architectural Woodworking, Inc., Rockville, MD, carpentry; Technical Millwork, New York, millwork; Tonstad Caulking Co., Inc., Alexandria, caulking; Merchant & Evans, sheet metal; Viracon, glass; Walker & Laberge Co., Inc., Norfolk, glazing contractor, windows & storefront; Aune Steel Door, Brooklyn, NY, metal doors & frames; Swingin' Door, Rockville, MD, wood doors; Contract Hardware, Rockville, MD, hardware supplier; Stevens Tile & Marble Co., Inc., Kensington, MD, ceramic tile; Madison Coating Systems, Inc., Mayo, MD, acoustical treatment, painting contractor (Glidden paint) & wall covering; Fairfax Tile & Carpet Co., Inc., Alexandria, resilient tile, carpet & special flooring; Paddock Pools, Rockville, MD, water fountain; Dover Elevator Co., College Park, MD, elevator; Chesapeake Sprinkler Co., Glen Burnie, MD, sprinkler contractor; American Standard, plumbing fixtures; John J. Kirlin, Inc., Rockville, MD, plumbing/heating/ventilating/air conditioning contractor; and Dynalectric Co., Vienna, electrical contractor.





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Ecological Housing Prototype

Clinton K. Good, AIA—Architect

Owner: Clinton K. Good, AIA • Location: Fairfax County

Project Architect/Designer, Clinton K. Good, AIA • Site Engineer/Surveyor, Bengtson, DeBell, Elkin & Titus • Interior Air Quality Testing, Hygeia Consultants • General Contractor, Andrew N. Byler • Photography, M.A. Buckwalter.

THE PROJECT

The project is a prototype for cost-effective ecological housing—housing using nontoxic and natural building materials and finishes on the interior for a healthier interior environment. The subject home was designed by the architect as his own residence. It was completed for occupation on February 15, 1986.

The intent of the architect was to design/build a house the "old-fashioned" way, minimizing the use of materials that outgas pollutants such as formaldehyde and organic vapors of petroleum product derivation.

Major sources of formaldehyde are such commonly used interior materials as particle board, plywood, insulations, carpeting, and latex paints. Organic vapors of petroleum product derivation can occur from the outgassing of paints, sealants, varnishes, preservatives, carpets, and certain furnishings, to name a few.

Little is known about the short and long term health effects of many of the indoor pollutants mentioned. However, recently there have been studies correlating exposure with the development of chemical sensitivities, according to the American Academy of Environmental Medicine. And once these sensitivities have developed, exposure to such products must necessarily be reduced.

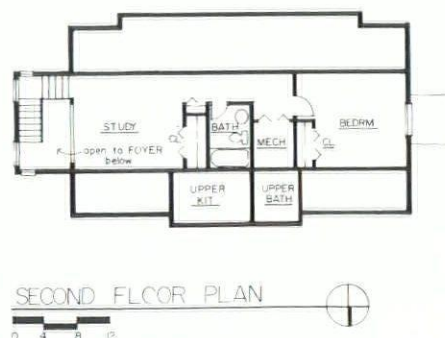
Examples of "old-fashioned" ways the architect minimized interior pollutants were the use of materials as they had been used in older homes such as wood sheathing in lieu of plywood, contemporary metal kitchen cabinets, and hardwood and ceramic tile floors/countertops throughout. A non-polluting hardwood floor finish was achieved by using a plant resin and

beeswax finish similar to that used on the ancient tombs. The paint used for all interiors is derived from materials such as natural plant latex, chalk, talc, and citrus oils.

Indoor pollutants are further eliminated with a modern-day, state-of-the-art central air filtration system capable of removing 99.9 percent of air-borne particulates. This combination of non-polluting building materials and air filtration provides a significantly more healthful living environment than standard new housing.

This field of architecture is expected to become more prevalent and more in demand as an increasing segment of the population joins those who are succumbing to sensitivity to products of modern technology.

The cost figures illustrate that the prototype has been built affordably. The two-bedroom, one-bath home has approximately 1300 square feet of living area on the main level with an additional 650 square feet roughed in for future second floor expansion. The house was built for a modest \$62 per square foot including the well and septic systems.





Other features of the subject residence include extensive use of south-facing patio doors and windows for passive solar gain, retention of southward tall trees for summer shading, skylighting; and double-story entry foyer and sunken living/family room, both for heightening the spatial quality. Minimal disruption of the existing exterior environment and landscaping to promote wildlife will enhance the quality of life.

THE SITE

The site is a predominantly flat wooded lot located in Fairfax County. The house was situated between two large trees. The deciduous tree to the south is the largest sassafras tree in Fairfax County as listed on the County "Big Tree Registry." The tree to the north is a 100-foot tulip poplar. The only trees removed were in the location of the house and the septic field.

CONSTRUCTION CREDITS

Andrew N. Byler of Catlett was general contractor and handled excavating, foundations and concrete work.

SUBCONTRACTORS & SUPPLIERS

First Colony Homes, Calverton, roofing, carpentry & structural wood; Arlington Woodworking & Lumber Co., Inc., McLean, millwork; Davis Products Co., Dowagiac, MI, metal, non-fuming cabinets; Morgan Millwork Co., Alexandria, Andersen wood doors & Andersen windows & hardware supplier; R. Thomas, Alexandria, gypsum board contractor; Summitville Fairfax, Inc., Alexandria, ceramic tile; Glaize and Bro., Winchester, hardwood flooring; D. Rainey Co., painting contractor; Woodpecker's Tools, Inc., Santa Fe, NM, paint supplier; Livos Research & Development Co., West Germany, natural, non-toxic paint manufacturer, also floor finish & other non-toxic products; Sterling Plumbing & Heating Co., Inc., Sterling, plumbing contractor; R.J. LePage & Sons, Inc., Sterling, heating/ventilating/air conditioning contractor; Hunt Electrical Co., Inc., Fairfax, lighting fixtures supplier; and Buhl Electric Co., Inc., Vienna, electrical contractor.



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Search and Recruit International

The Design Collaborative—Architects

Location: Virginia Beach

Project Architect/Designer, C. Michael Henry, AIA • **Interior Designer,** Interior Design Group • **Site Engineer/Surveyor,** Adkins & Associates • **Structural Engineer,** William J. Davis, PE • **Geotechnical Engineer,** ATEC Associates, Inc. • **Modeler,** Tom Hesse • **General Contractor,** CM Associates, Inc.

CM Associates, Inc. of Virginia Beach is general contractor for the project.

SUBCONTRACTORS & SUPPLIERS

Other Virginia Beach firms are: B&J Contracting, excavating; Welch Pile Driving Corp., piling; M.M. Gunter & Son, Inc., foundations; Gunter Brothers Concrete Co., Inc., concrete contractor; and Atlantic Plumbing, Inc., plumbing contractor.

From Norfolk are: Hall-Hodges Co., Inc., reinforcing; Globe Iron Construction Co., Inc., steel

supplier; Walker & Laberge Co., Inc., glazing contractor; and Otis Elevator Co., elevator.

Chesapeake firms are: VICO Construction Corp., utilities; Lone Star Industries, Inc., concrete supplier; I.J. Allen & Son, Inc., steel erection; and Arc Electric, Inc.

Others are: Advanced Coating Technologies, Franklin, TN, glass; Supersky Products, Inc., Mequon, WI, sloped glazing; and Custom Fabricators, Inc., Elkhart, IN, window wall.

This corporate headquarters building makes the most of its highly visible location adjacent to the busy Norfolk-Virginia Beach Expressway. In response to the owner's desire for a landmark building, The Design Collaborative has created a complex, multi-faceted form calculated to accentuate the mirroring qualities of the reflective glass exterior.

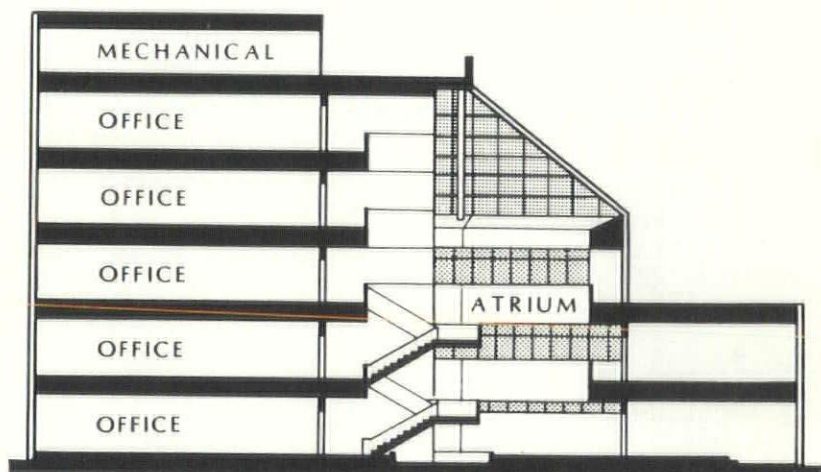
To create a more imposing presence and accommodate the different spatial requirements of the various corporations comprising Search and Recruit International, the 40,000 square foot building terraces five stories to a high-point facing the expressway. The progressively smaller floors meet programmatic needs while creating functional roof gardens and an internal atrium, as well.

The five-story, glass-roofed central atrium provides a real and symbolic connection between the semi-independent corporations. Focal points of the atrium are a cantilevered sculptural staircase and a pair of glass-walled elevators. A large planter at the grand lobby level provides a natural counterpoint to the building's crisp, angular symmetry.

All of the floors overlook the central atrium. Offices adjacent to the atrium feature interior windows to take advantage of natural daylight. All major circulation elements—corridors, stairs, and elevators—have been centralized in the atrium to enhance the sense of community and activity.

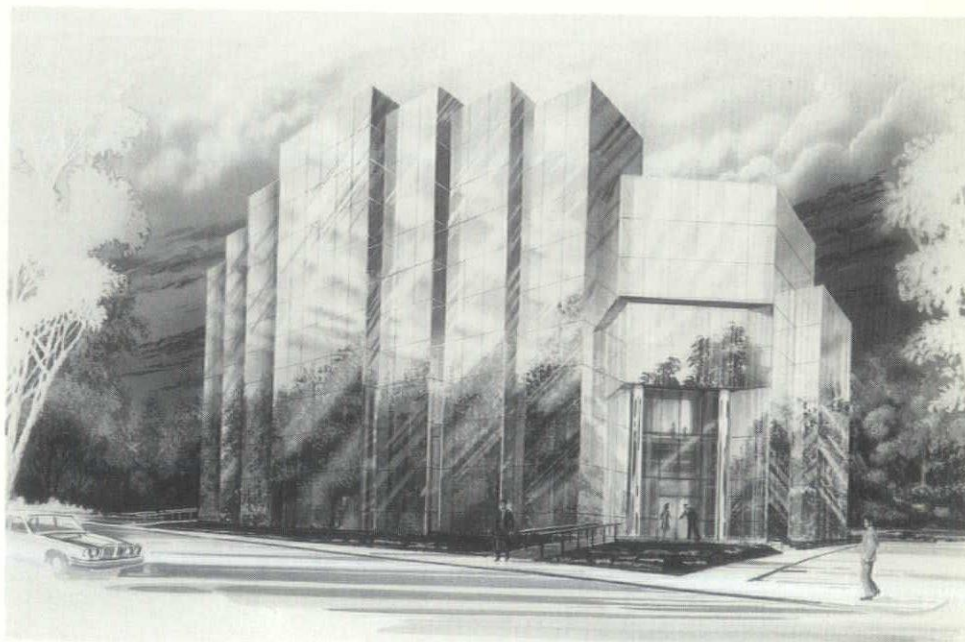
The exterior curtain wall uses a state-of-the-art, four-way structural silicone glazing system. This system eliminates all exterior mullions for a sleek, hard-edge appearance. Most of the glazing is silver reflective insulating glass with 33 percent reflectance to reduce heat gain in the offices and the atrium.

The Search and Recruit Corporate Headquarters building creates a landmark image and at the same time a pleasant working environment. Furthermore, it expresses the pride of achievement felt by the corporations that make up Search and Recruit International. But more significantly, it represents the growing climate of prosperity, business, optimism, and cultural sophistication in Tidewater Virginia.



BUILDING SECTION

25' / 20m



Norfolk Office of VMDO Architects

VMDO Architects/Norfolk

Owner: VMDO Architects • Location: Norfolk

• Interior Designer, VMDO Architects/Charlottesville • General Contractor, S & S Construction • Photography, Mike Wade, JMM Photography.

Located in the downtown historic area, the Norfolk office of VMDO Architects was designed by the firm. The existing (retail) space, in an 80-year-old structure, consisted of two 14 x 30 foot bays with a wood window wall system at the Botetourt Street elevation.

Several factors were key to developing the design. The very open on-grade relationship between the space, the sidewalk, and street, while satisfactory for a retail business, was not appropriate for an architectural practice. The existing interior bearing wall divided the space and created an unsatisfactory double shoebox perception. The 1200 square foot area would require further functional subdivision, but the design was committed to ensuring that all spaces had access to the light and a view to the street. Another design goal committed the team to making a simple cohesive architectural statement that would reflect the firm's studio approach to design.

In response to these criteria, a series of walls were designed parallel to the street elevation. This automatically established zones within the space, implied a tie between the existing spaces, and provided the tools to create the functional subdivisions required.

The openings at the new wall nearest the street were carefully designed to be more solid than the adjacent window wall, while remaining relatively open to enhance natural light availability to all areas. This also served to establish the additional public to private step missing in the retail hierarchy. Additionally, this wall provides a continuous parallel image behind the storefront and dispels the double shoebox image when viewed from the street.

A black and white color scheme was adopted to reinforce the studio image begun by the large volume and sculptured walls but the interiors department could not resist the opportunity to use "a little peach." Accordingly the inboard side of all the new walls received the color. The result is very subtle. As you enter perpendicular to the new walls, all is crisp and white, but as you leave a warmer tone is present.

Ambient lighting was achieved by taking advantage of the high ceilings and mid-height walls. Fixtures were mounted on the tops of the walls and valances and light reflected from above. Task and accent lighting were accomplished in a studio manner by using gooseneck lamps and track lights.

The scheme has accomplished many of the original design goals. It has successfully used the existing conditions to generate simple, straightforward solutions where existing conditions have been integrated into the layout as features while satisfying the functional requirements of the office.

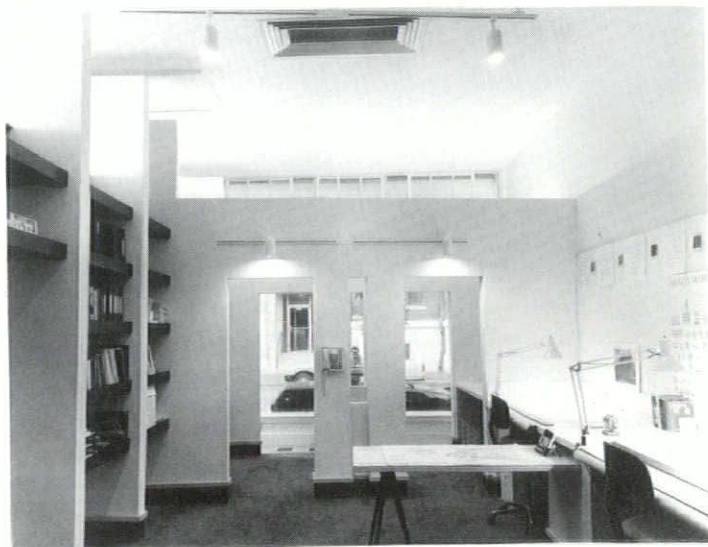
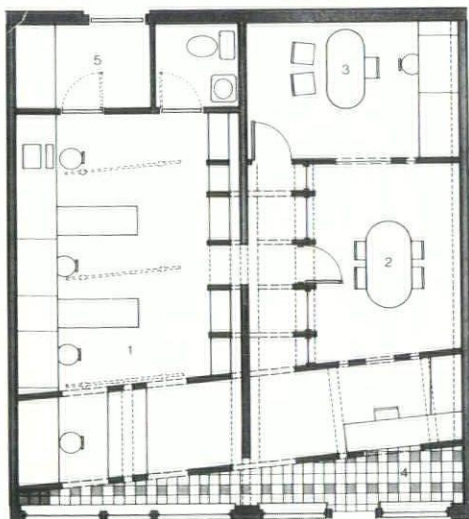
S & S Construction of Chesapeake was general contractor and handled carpentry and painting.

SUBCONTRACTORS & SUPPLIERS

Kitchen Tops, Inc., Norfolk, cabinets; Kempsville Building Materials, Inc., Virginia Beach, wood doors; Seaboard Building Supply Co., Virginia Beach, hardware supplier; Casane Drywall, Norfolk, gypsum board contractor; Jayen Tile Corp., Norfolk, resilient tile; Collins & Achman, Richmond, carpet; and J.B. Basnight, Chesapeake, electrical contractor.

FLOOR PLAN

- | | |
|------------------|-----------------|
| 1. DESIGN STUDIO | 4. RECEPTION |
| 2. CONFERENCE | 5. PLOTTER ROOM |
| 3. OFFICE | |



FOR THE RECORD

'Reach for the Stars' with AGC/Va at the Homestead in January

Again next year, the Associated General Contractors of Virginia return to The Homestead in Hot Springs, Virginia, for their annual convention—Thursday, January 22 to Sunday, January 25. The beautiful and venerable Homestead continues to offer what members—and the families and friends who often come along—really want in a convention location. The intimacy and genteel grandeur continue to be drawing cards. The skiing, indoor swimming, and well-equipped health spa are added inducements.

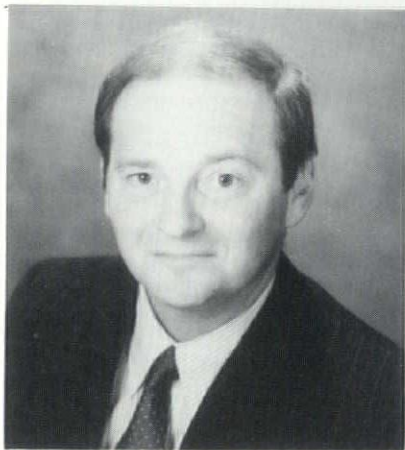
"Reach for the Stars" is the 1987 Convention theme. Stars among speakers and topics include: Kick-Off Breakfast keynoter Dr. Charles W. Sydnor, Jr. President of Emory and Henry College; Ray Pelletier, a dynamic speaker with an international reputation who has inspired personal development and team-building in some of the nation's top corporations, such as Ingersoll-Rand, NCR, Walt Disney World, and others; and "An Hour with Churchill" featuring lawyer, legislator, diplomat, author, academician, and actor, James C. Humes, who is best known for his realistic impersonation of Winston Churchill. Humes was a part-time assistant to Dwight D. Eisenhower, and a speech-writer for Gerald Ford. He later became an official in the State Department. The wit and wisdom of Churchill, and some of Humes' own thoughts gleaned from his career, come out in his presentations.

The first-night theme party this year will be "County Fair," with booths, competitions, and a sale of hand-made and donated items for the benefit of the Virginia Construction Industry Education Foundation. The VCIEF uses these funds to provide scholarships to worthy young people going into construction-related careers. Featured entertainers for the evening will be Hollanders. "The who have entertained at expositions and fairs across the country as well as on television.

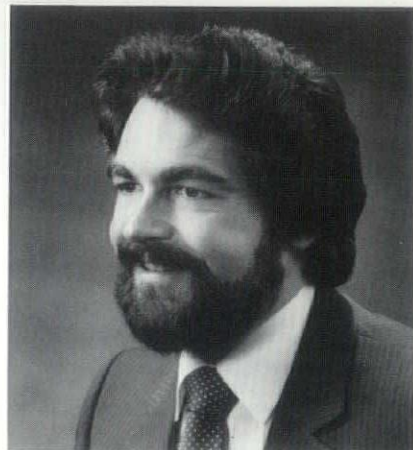
A special ladies' program will feature The Homestead's famous Chef Albert with a culinary demonstration.

National officers and dignitaries of AGC, who will address the group and be available for informal conversation, are President Richard E. Hall, Chairman of Underground Construction Co., San Leandro, California, and Hubert Beatty, Executive Vice President of the Associated General Contractors of America.

The climax of the convention is always the gala President's Banquet, where the changing of the guard takes place amid award and recognition ceremonies. Entertainment and music for dancing will be provided by "First Class." This versatile musical group has a repertoire to suit the tastes of the several generations represented at the convention.



DR. CHARLES W. SYDNOR, JR., President of Emory and Henry College, Emory, VA, is a distinguished author, best known for "The World at War." The 36-part television series is a product of his research, development, and production—you'll recognize him as the on-camera host and commentator for that series.



RAY PELLETIER, internationally known keynote speaker, will address the Convention Theme—"Reach for the Stars"—Friday morning, January 23.

An innovation this year will be "The Great Escape," provided for those who prefer conversation and easy listening to dancing. AGC's own Bob Rosenbaum will play the sparkling piano music for which he is famous in a lounge near the banquet hall.

EXHIBIT SPACE ENLARGED

"Stand Out from the Crowd," an exhibit solicitation folder printed and distributed by the Associated General Contractors of Virginia, offers space at the annual convention. The folder has brought prompt results.

Each year the AGC of Virginia booth space and exhibit hall has been enlarged to meet booth requests. Mailings of booth folders were made to former exhibitors and members. Others who are interested, but may have procrastinated, may request booth information by calling the Associated General Contractors of Virginia at (804) 359-9288 or by writing to AGC of Virginia, P.O. Box 6878, Richmond, VA 23230. A detailed layout of the exhibit hall will be sent with the exhibit brochure.

Special convention rates are also provided for exhibitors who wish to attend the convention events. Among the features in the exhibit hall which will attract convention attendees is a hospitality center. Door prizes also are exhibited there. In addition, each person who attends the convention will come to the exhibit hall to obtain badges and registration packets.



JAMES C. HUMES, former legislator, presidential speech writer and author, is a most entertaining speaker. As "Winston Churchill," he shares wit and wisdom from his varied careers with his audiences.

Funds received from exhibit booths are used to provide scholarships for young people interested in completing education for a construction-related career. The funds are distributed by the Virginia Construction Industry Education Foundation.

Construction Students . . . Tomorrow's Builders are Already Building

Like having a good hand around the house or a neighbor who runs a fix-it shop, college campuses and university towns across the country have come to appreciate—perhaps even depend on—the skills of local bargain-rate construction teams known as Student Chapters of the Associated General Contractors of America (AGC). These are students looking to hone their professional skills—the practical application of theory, problem solving at the work site—before they take them to the construction job market quite likely a member firm of the AGC. The result has been an old-fashioned kind of neighborliness which has fostered good relations between schools and towns and spruced up the surroundings.

In Idaho, for instance, the Boise State AGC Student Chapter built a bus shelter designed for the elderly and handicapped and helped the university athletic department develop an outdoor recreation area for the handicapped. The group also designed and constructed a playground for the Boise State day care center. For their efforts, the university's student organization gave them a Special Award of Distinction. The chapter has also received the \$300 first-place Student Chapter Award from AGC of America.

"The young men and women in these chapters are committed to careers in construction," says Paul Diederich (Industrial Builders, Inc., Fargo, North Dakota), chairman of the AGC Student

Chapter Task Force. "They see each of these projects as a learning experience, and they're out to do good work. The Boise State chapter is one of 131 student organizations chartered by AGC, representing the future leaders of the construction industry."

For the City of Morrow Bay, California, the AGC Student Chapter of nearby California Polytechnic State University was drafted into the professional ranks, designing, estimating and scheduling the construction of a two-car lane, two-bike lane bridge. The "Cal Poly" chapter, based in San Luis Obispo, also renovated a playground for a local preschool and built a playhouse for a community church. The chapter is now raising funds to rebuild an earthquake-damaged school in Mexico. National AGC has awarded them a \$200 second-place prize in the Student Chapter Awards.

"Not all chapters, however, are able to get those kinds of big projects to work on," says Diederich, citing as an example the T.R. Holleman AGC Student Chapter at Texas A&M University—winners of the \$100 third-place prize—which repaired and improved the exterior of a local church and built shelves for a Girl Scout troop.

The relationship between the students, AGC of America and the 108 state AGC chapters isn't all awards ceremonies, however. In fact, the students use their contacts with state AGC chapters

to gain insight into the day-to-day business of construction. By working closely with AGC contractors, they not only gain access to nearby jobsites, but also to work-study programs and summer employment opportunities. They sit in on regular state AGC chapter meetings and become familiar with current construction issues and management concerns. The contractors reciprocate by attending student meetings and speaking to construction classes.

"The results of this have been quite tangible," Diederich asserts. "In fact, two former student chapter members are now serving on the Student Chapter Task Force and are contractor members of AGC. I think you'd have to call that a successful program."

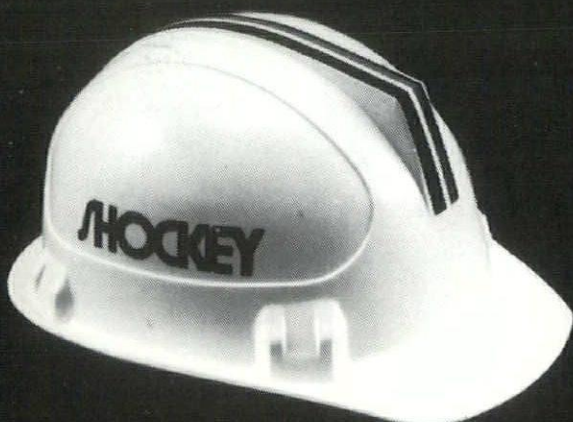
Military Engineers To Hold Seminar

The Society of American Military Engineers (S.A.M.E.) will sponsor a seminar on "How To Do Business With The Government" at the Ft. Magruder Inn, Williamsburg, on February 11, 1987 from 8:00 A.M. to 4:00 P.M. Panel participants will include Post Engineers and Heads of Project Management from all major D.O.D. installations in the Tidewater area.

Registration fee of \$35.00 is due by January 20, 1987, and includes luncheon and luncheon presentation. Contact Cal Avant at 874-3288/483-1458 for more information.

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Accepting the Safety Awards for their firms, from left to right, are: F.W. Lundy—BE & K Construction; Pat Hunter—C.M. Hunter, Inc.; Red Braswell—A.A. Beiro Construction; and Robert Marchessault and Bob Lyons—Commonwealth Enterprises of Northern Virginia.

Associated Builders and Contractors Announces 1986 Safety Award Winners

The Management, Education and Safety Training Committee's Safety Subcommittee, chaired by Charles Roberts (Roberts Safety Consultants, Inc.), recently evaluated all the entries in the Virginia Chapter's Annual Construction Safety Awards Contest.

Entries were judged on the basis of the number of reported accidents a contractor had in 1985 (OSHA Form 200) divided by the number of total manhours worked by the company. Ties were broken by the company's "experience modifier rate."

THE RESULTS:

- Division I (0-40,000 manhours worked in 1985): Commonwealth Enterprises of Northern Virginia, Inc. Robert W. Lyons, President. This company is a mechanical contractor specializing in plumbing, HVAC, and sprinkling systems.
- Division II (40,001-80,000 manhours): C.M. Hunter, Inc. Mike Hunter, President. C.M. Hunter is a concrete contractor.
- Division III (80,001-160,000 manhours): BE & K Construction Company Mike Moore, Project Manager. BE & K, headquartered in Birmingham, Alabama, was also a winner in 1985.

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- Division IV (Over 160,000 manhours): A.A. Beiro Construction Co., Inc. Alexander A. Beiro, President. This is the third year in a row A.A. Beiro Construction, a heavy construction contractor, has won the safety award.

The Virginia Chapter of Associated Builders and Contractors is a commercial and industrial construction trade group representing over 350 general contractors, specialty subcontractors

PHR&A Opens in Virginia Beach

Patton, Harris, Rust and Associates, P.C. has announced the opening of their Virginia Beach office, located at 4534 Bonney Road in the Dragas Office Park, opened in September.

PHR&A provides civil, environmental and transportation engineering services as well as surveying, land planning, landscape architecture and construction inspections. The opening will allow PHR&A to effectively provide these services to Tidewater and surrounding areas, thus furthering the firm's goal of providing complete services throughout the Commonwealth of Virginia.

Steven P. Clark, P.E. will be branch manager for the office. Mr. Clark was previously branch manager of the Bridgewater, Virginia office.

PHR&A currently employs over 200 professionals throughout its offices in Rockville, Maryland and in Fairfax, Leesburg, Virginia Beach and Bridgewater, Virginia.

and suppliers of construction materials and services to the construction industry.

For further information, contact:
Ken Cleaveland, CAE, Executive Director
Associated Builders & Contractors, Inc.
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Monumental Sculpture and Landscaped Garden Unveiled in Alexandria

A monumental outdoor sculpture installation, consisting of colossal marble fragments reminiscent of archeological ruins and set within a landscaped garden, was unveiled on October 22, 1986, at the TransPotomac Canal Center, in Alexandria. The installation—integrated throughout the 10-acre site—was commissioned by Savage/Fogarty Companies, Inc., an Alexandria-based developer for the waterfront office complex designed by CHK Architects and Planners.

The sculpture, entitled "Promenade Classique," is a collaborative effort between French artists Anne and Patrick Poirier and noted American landscape architect M. Paul Friedburg. This is the first U.S. commission for the Poiriers, who participated last year in the prestigious Venice Biennale and are currently completing a major installation for the Palais-Royale in Paris for the French Cultural Ministry. Their work is in the collections of major museums around the world, including Centre National d'Art Contemporain, Paris; Smithsonian Collection of Fine Arts, Washington, D.C.; and Montreal National Museum of Fine Arts, Canada. Mr. Friedburg was the landscape architect and designer of such projects as Pershing Park in downtown Washington, D.C., and the major Battery Park City project currently under construction in New York City.

The Canal Center sculpture features a 30-foot high bronze arrow thrust into a fountain which cascades from the plaza's center to the Potomac River's edge; a 14-ton marble obelisk which echoes the Washington Monument seen in the background; and colossal figurative fragments such as giant eyes and mouths. The marble sculptures were carved in the hills near Carrara, Italy, the same marble quarries where Michelangelo and the late Henry Moore had their sculpture studios. In early August, the 100-tons of sculpted marble and marble fragments were packed in five 30-foot long crates, each weighing 20 tons, and shipped to Baltimore where they arrived on September 15. The sculpture installation and landscaping required three weeks for completion.

The Poiriers were selected by a committee of four noted art historians and Mr. Friedberg. Members of the appointed committee included: Jack Cowart, Curator of 20th Century Art for the National Gallery of Art; James Demetrian, Director of the Hirshhorn Museum and Sculpture Garden; Jane Livingston, Associate Director and Chief Curator, Corcoran Gallery of Art; and Donald W. Thalacker, Director of Art-in-Architecture and Historic programs for the General Service Administration.

The Poiriers, both born in 1942, have been collaborating on works of art since the 1960's. Their work incorporates large-scale fragments of classical sculpture, often based on mythological themes. Like archeological ruins, their outdoor installations evoke ancient sites, with sculptural details of figures—colossal eyes and mouths—which seems to be randomly placed, as if left behind by another civilization. The Poiriers also manipulate scale, juxtaposing forms that are disproportionately small with others that are disproportionately large.

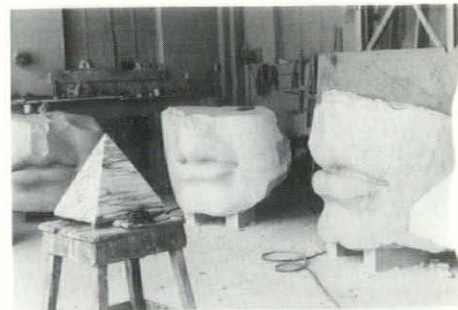
The sculpture installation at the Canal Center will be placed throughout the 10-acre project and integrated with fountains and pedestrian

promenades. The first element of the installation is a huge bronze arrow, measuring 30-feet high, which appears to be thrust from the heavens into a fountain. Having pierced the ground, the arrow gives birth to bubbling clear water, cascading down toward the river. Here the Poiriers say they are signifying an important birth, and the relationship between Washington, D.C., Alexandria, and George Washington himself.

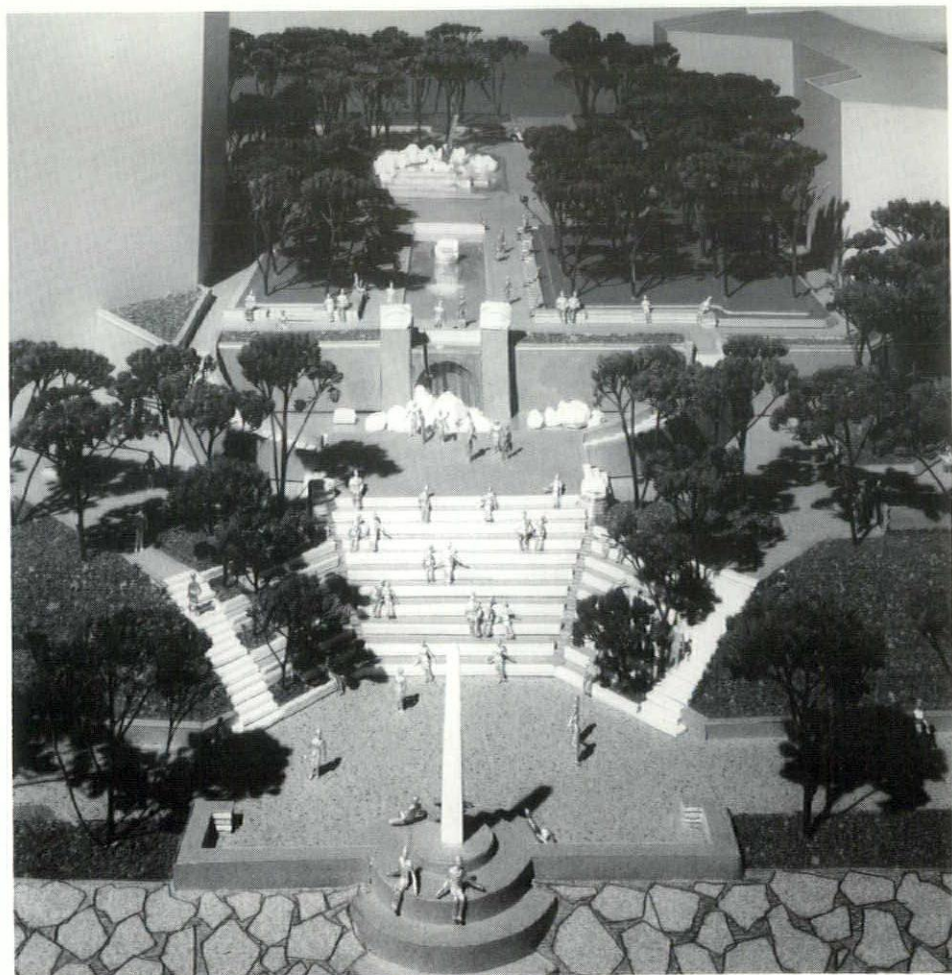
"The intriguing aspect of this project," noted Mr. Friedburg, "is the selection by the developer of a complex design solution which relates and integrates the art to its environment rather than simply commissioning an independent artwork object which is then placed within a commercial building setting." He added, "This willingness to permit a re-design of the plaza and fountain areas to absorb the art into the fabric of the project is truly exceptional."

TransPotomac Canal Center was named for the historic canal tidal lock and for its proximity to the existing TransPotomac Plaza office complex. In addition to the Poirier sculpture, the project also features a pedestrian promenade along the Potomac riverfront and a city-operated museum, housing artifacts and other memorabilia.

The Center was designed by CHK Architects and Planners. Charles H. Tompkins is the general contractor.



Fragments from the sculpture designed by Anne and Patrick Poirier. These photographs were taken in July 1986 near the Carrara marble quarries in Italy. Anne Poirier is shown making final touches to the marbles.



Model for sculpture installation for the TransPotomac Canal Center in Alexandria.

Snyder and Amthor Promoted At Hudgins Construction

Lester L. Hudgins, President and Chief Executive Officer of Newport News-based Hudgins Construction Co., Inc., has announced the promotion of Charles E. Snyder, III to Vice President of Business Development, and Henry P. Amthor to the position of Project Manager and Estimator.

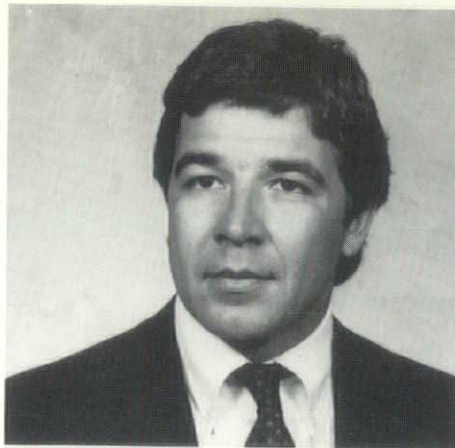


SNYDER

Previously employed as a Project Manager, Snyder, will now be responsible for marketing the company's services in commercial and light industrial markets throughout Southeastern Virginia and Northeastern North Carolina.

With Hudgins since 1981, Snyder worked his way up from Project Superintendent, Assistant Project Manager, and Estimator to his current management position. Having been in the commercial construction industry for nearly 20 years, he also possesses an extensive background in projects involving distribution centers, research labs, office buildings, light manufacturing facilities, warehouses, military facilities and hospitals.

A native of Norfolk, Snyder, his wife, and four daughters reside in the historic Ghent area.



AMTHOR

In his new position, Amthor will be responsible for overseeing the construction, progress, and costs associated with an assigned project. Additionally, he will be called upon to determine the costs involved with the construction of a project, and then maintain a continual accounting of those costs.

Among the projects that he will be overseeing, are two recently acquired U.S. Navy contracts; one at the Yorktown Naval Weapons Station, and the other at the Dam Neck Fleet Training Center. The total expected cost for completion of the two projects is in excess of \$10 million.

Prior to assuming his new position, Amthor most recently served as an Assistant Estimator and Project Manager for Hudgins, where he has worked since 1983. A graduate of Syracuse University, Amthor earned a Bachelor of Science degree in Construction Management.

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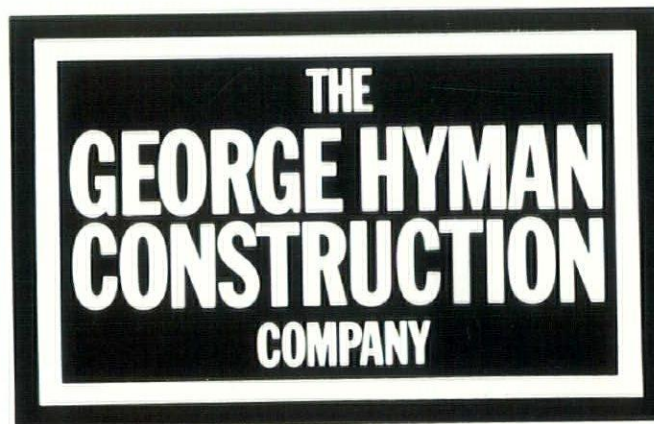
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