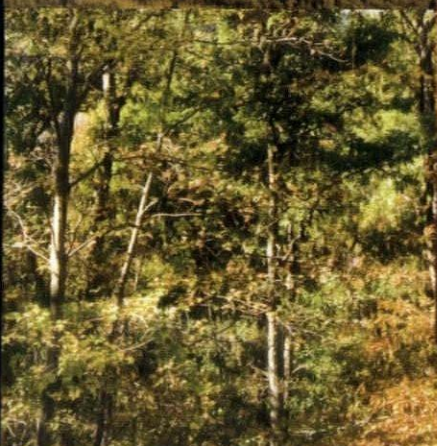


inform

Architecture+Design
in the Mid-Atlantic

2012: number six | 2013 number one

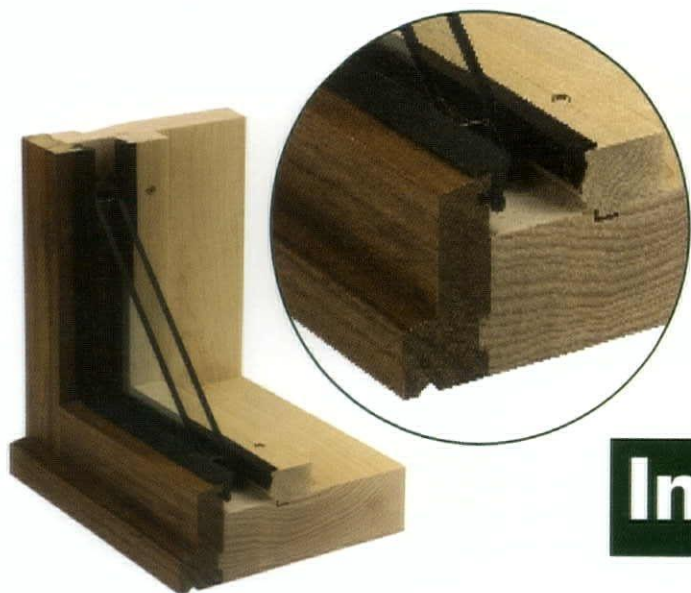
six dollars



VIRGINIA SOCIETY AIA

Design Awards

2012 Awards for Excellence ■ Honors ■ Test of Time Award ■ Recent Research Developments



Duratherm. Precision. In joinery. **In everything.**

Our windows and doors are all made with solid hardwood components, no finger joints and yet everything fits just like a glove.

When a child's hand can move a 25-foot sliding door with the ease of a feather, then you know the hands of the craftsmen who built it knew exactly what you wanted.

Precision joinery is especially important in large, monumental systems where the stresses of weight and weather ceaselessly bear down on the entire structure.



But for us, precision is important in everything. It makes our windows and doors last for decades and beyond, it brings the high architectural designs of our clients to life, and it distills all the aesthetic values down to that intangible feeling of true, unmistakable quality that nothing can replace. Precision joinery is a production attribute that truly defines us ...

... and that's just the beginning.



Duratherm

WINDOW CORPORATION

Architectural windows and doors since 1967.

*Made from the world's ultimate woods and materials,
by the world's finest craftsmen,
for the world's best customers.*





We Make It Easy to Specify the Right Paint

NEW!



**Revolutionary Quality.
Industry-Leading Sustainability.**

WALLS - FLOORS - ROOFS - EXTERIORS - STEEL - CONCRETE - DRYWALL

We provide a full range of solutions to protect and beautify every area of your project — from wall paints and high performance coatings to resinous floor systems and epoxy terrazzo flooring. Sherwin-Williams can help meet your requirements for aesthetics and durability. Plus, we have the most comprehensive lineup of coatings that meet the environmental regulations set forth by a variety of guidelines, including LEED, MPI, GEI, CHPS, CARB and more.



**All Latex Paints in All Colors
Now Tinted with New Zero
VOC Colorants.**

Architectural Account Executive:

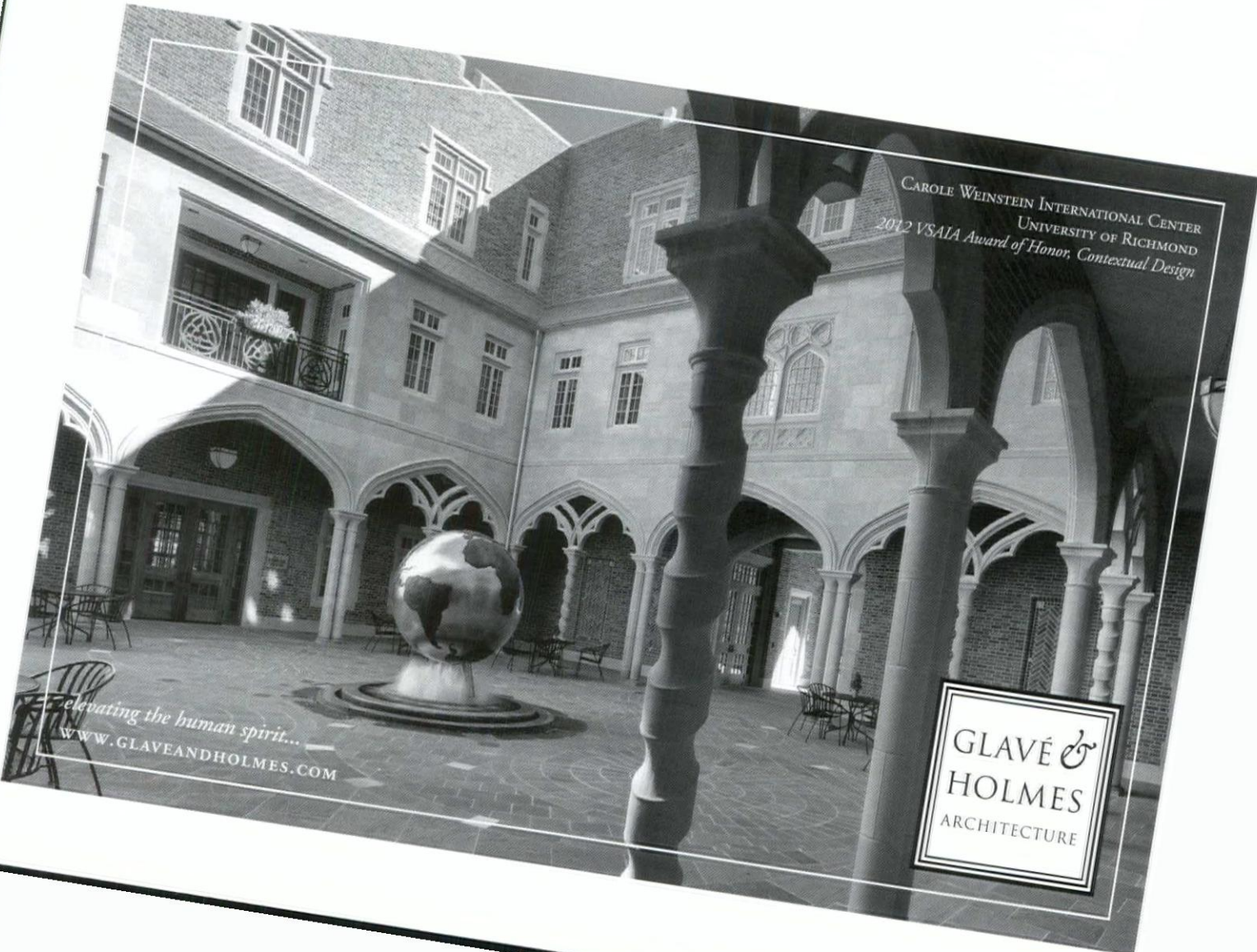
Bill Rains, CSI, CDT
bill.rains@sherwin.com
301-902-3229 Office
301-351-4257 Cell

Online Support:

www.swspecs.com
www.swgreenspecs.com
(LEED complying paints)
www.swcolor.com

Richmond District Office

Attn: Catherine Bell
6564 W Broad St.
Richmond, VA 23230-2014



CAROLE WEINSTEIN INTERNATIONAL CENTER
UNIVERSITY OF RICHMOND
2012 VSAIA Award of Honor, Contextual Design

**GLAVÉ &
HOLMES**
ARCHITECTURE

elevating the human spirit...
WWW.GLAVEANDHOLMES.COM

Editor

Douglas E. Gordon, Hon. AIA

Director of Sales

Judy S. Cheadle

Sales Administrator

Cathy Guske

Editorial Assistant

Jim Walker

Graphic Design

Steven Longstaff

Distribution

Shanelle Calvin

Webmaster

Andy Liguori

Accounting

Kenna R. Payne, CPA

Public Relations

Rhea George

Publisher

John W. Braymer, Hon. AIA

Inform (ISSN 1047-8353) is published six times a year by the Virginia Society of the American Institute of Architects.

Subscription rate: \$22 for one year, \$6 for single copies of quarterly issues. POSTMASTER: Please send address changes to **Inform**, The Virginia Center for Architecture, 2501 Monument Ave., Richmond, VA 23220. Telephone: 804-644-3041. Note to subscribers: When changing address, please send address label from a recent issue and your new address. Periodicals postage paid at Richmond, Virginia, and additional mailing offices. Editorial offices: 2501 Monument Ave., Richmond, VA 23220. Phone: 804-644-3041. Copyright 2012 by **Inform**.

Inform encourages open discussion of architecture and design. Opinions expressed in the magazine are those of the author and not necessarily of the Virginia Society of the American Institute of Architects.



FROM THE EDITOR

A Look at Last Year, Now on to the Next

In this issue, we look back at the 2012 VSAIA Awards for Architectural Excellence even as we look forward to the Inform Awards (for landscape architecture, interior design, and object design, visit aiava.org for details), the office of the future, and research intended to control the obesity (and related maladies) among children through elementary-school design guidelines.

Of course there are many other things to think about in the new year. Many are too helplessly, hopelessly painful to recount. Some are the subject of things over which architects can and will have a great deal of influence:

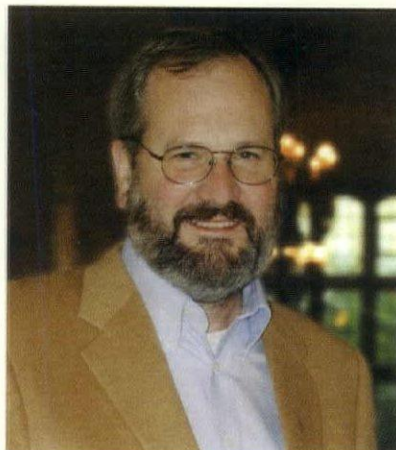
Resilience. The AIA has been working for years—along with such notable organizations as the National Institute of Building Sciences (NIBS) and the U.S. General Services Administration—to further refine building-design concepts that will ensure human and property survival after natural and anthropogenic disasters. Much of the work began after the Oklahoma City bombing and was further refined following the events of 9/11/2001 and hurricanes in Florida and the Gulf Coast. Debate and subsequent ideas continue to flow after what people on the Northeast Coast most recently endured after Hurricane Sandy. What began as prevention and protection (setbacks, blast-resistant glass, and bollards) is now morphing into design approaches that have the capacity to succor in place and expedite recovery. As only one example, albeit a noteworthy one, the AIA and NIBS have a jointly sponsored on-line database, BRIK, with an announcement date of January 9, 2013, that you should tie into as soon as you can.

Sustainability (further than you probably ever thought). With the U.S. military, other federal departments, and state agencies fully on board, alternative energy is the wave (or wind, or solar) of the future. Net-zero houses are now in the same realm that manufactured modular houses (still architect-designed, mind you) have been for at least a century. Water management is a part of the latest International Building Code overlay, the IgCC. Furthermore, there are as many organizations creating guidelines, standards, and codes—Green Globes, EnergyStar, LEED, ASHRAE—as there are people who revel in them with phrases such as “tipping point,” which, of course, would include myself just now.

Health. If there were one most important key to the keynote presentation Canadian architect Tye Farrow brought to the November ArchEX conference, it was this: Healthcare has for far too many years been considered the realm of medical professionals fighting disease. In reality, he argued convincingly, healthcare should be the realm of design professionals—planners and architects—who create environments that inspire healthy living. If we as a society are to look beyond pathogenic (disease-based) thinking and move upstream to a salutogenic (health-based) mindset, it will mean that healthcare moves from those who (honorably, mind you) fight sickness to those who (your name here) promote health. In short, rather than striving to do no harm, architects have the capacity to do great good.

Please enjoy the VSAIA-awarded project highlighted in the following pages. Also, beginning on page 7 are great architects doing good things and also, toward the back, you'll find some offerings on projects and events that portend a brighter future.

Happy 2013!



—Douglas Gordon, Hon. AIA

The 22nd annual

inform AWARDS

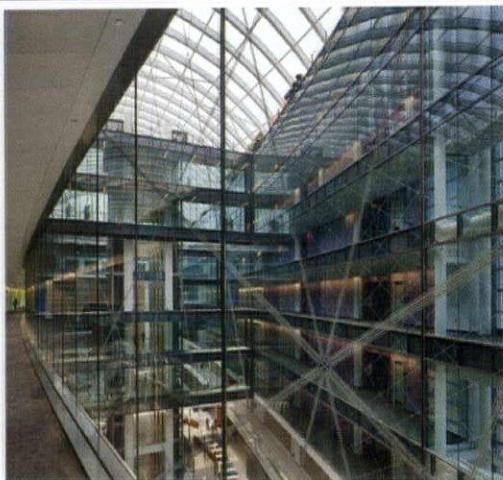
A program to recognize and encourage outstanding:

Landscape Architecture | Interior Design | Object Design

2013



Memorial to the Magar Ancestors | Landscape Architecture Honor Award | Photo: Travis Price, FAIA



National Geospatial-Intelligence Agency Campus East | Design Honor Award | Photo: David Whitcomb



The Crib at Strathmore | Object Design Honor Award | Photo: Anice Hoachlander

CALL FOR ENTRIES

The program is open to anyone in *Inform* magazine's primary circulation area—architects, interior designers, landscape architects, furniture designers, industrial designers, students, and faculty. Your business address must be located in Virginia; Maryland; West Virginia; Washington, D.C.; or North Carolina. *All work submitted must have been completed after January 1, 2008.*

2013 Schedule

March 4, 2013: Registration closes

March 18, 2013: Project submissions due

April 22, 2013: Winners will be announced

May 7, 2013: Winners appear in a special section of *Inform* magazine.

Awards

Award winners in both the Honor and Merit categories will be featured in a special section of *Inform* magazine and announced to the public.

2013 Fees

\$135.00 per project
Members of the Virginia Society AIA

\$175.00 per project
Non-Members

Fees are non-refundable and non-transferable

inform

volume twenty-three | twenty-four number six | number one

12 2012 VSAIA Honors and Awards

In Architecture, Contextual Design, Residential Design, Interior Design and Historic Preservation, enjoy 19 outstanding projects from this year's VSAIA Awards. The people recognized in the 2012 Honors program are equally impressive.

7 Graves to Visit Richmond

Visit coincides with VCA exhibition.

8 NetWorks

the business of design

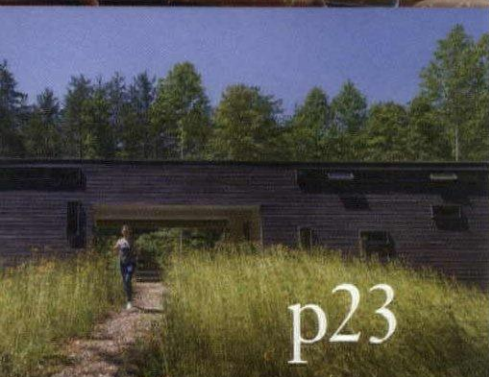
38 Building Development News

Office of the Future, Union Station Master Plan, Obesity Prevention Research

47 In Products



p22



p23



p19


On the cover:

A montage of the 2012 VSAIA Awards for Excellence in Architecture.

See pages 12-28 for photo credits.

Next issue:

Green
design and
healthcare
architecture



Start a *metamorphosis* of your own.



Before



After - Residential & Cultural Arts Center in Richmond, Virginia

Transform your community — while preserving its history. Join the growing number of Virginia communities using VHDA financing and resources to bring about revitalization and affordable, quality housing. To learn how VHDA financing can help transform your community, please contact Keith Sherrill at 804-343-5735, or keith.sherrill@vhda.com.



Virginia Housing Development Authority | vhda.com



6

VCU Health System
Children's Hospital of Richmond Pavilion



Tidewater Community College
Virginia Beach Student Center



Innovative Construction Partner

We're the name behind major projects throughout Virginia and around the world. Our broad expertise and innovative project planning, execution and management techniques makes us the contractor-of-choice for any size project in any industry. When you need the best in construction services, turn to Skanska.

We'll ensure your next project is a world-class success.

SKANSKA

usa.skanska.com

Graves and His Work Inspire Richmond

The Virginia Center for Architecture will be paying tribute to AIA Gold Medal recipient Michael Graves, FAIA, in an exhibition “Towers & Teakettles” in Richmond January 17 to March 13, 2013. The Center is also offering a presentation by the architect himself on February 7.

His architectural education at the University of Cincinnati (his hometown) and especially at the Harvard GSD was strictly Modernist-based, says Graves, who subsequently began his teaching tenure at Princeton University in 1962 where he is now the Robert Schirmer Professor of Architecture, Emeritus. It was in Europe as a Rome Prize scholar at the American Academy in Rome, he recalls, that he began his enduring appreciation of classical architectural elements.

He still adhered to the Modernist principles of geometric abstraction and his love of white as late as 1977, when he designed the Plocek Residence in New Jersey. Shortly thereafter, though, Graves broke many molds, notably with his designs for the Humana Building in Louisville, Ky., and Portland Building in Portland, Ore. in 1982. Although widely criticized for his eclectic, in-your-eye ornamentation, his buildings also featured contextual elements, amazing vistas, and street-level retail, elements that catered to the building’s users and surrounding community. As Graves says, he was learning that architecture is not just about color and how a building looks but also how it operates.

He also turned his attention to the aesthetics of everyday life when, in 1984, he introduced the bird-whistle teakettle, which became an instant sensation with the Big Box store that would become his longtime partner, Target.

It was in 2003, though, that events overtook Graves’s life and set him on a course toward perhaps his greatest contribution to the built environment. A persistent cold somehow became a spinal infection, followed by excruciating pain. When the pain



Courtesy of St. Coletta

When Graves visited his St. Coletta of Greater Washington, D.C., facility for children he was delighted that he could move through the building in his wheelchair without hindrance.

finally subsided, the architect’s legs were paralyzed.

Graves quickly came to realize that despite decades of design-for-accessibility guidelines, accommodation for people in wheelchairs was entirely inadequate. In the hospital recovery room he couldn’t reach the faucet to brush his teeth, bend down to plug in his shaver, or see himself in the mirror, he recalls. These are things that are so simple to fix, he thought. He had a renewed mission. With it, Graves continues his legacy of beautiful and engaging forms that capture the imagination and serve the body and spirit. (One of his most recent is the Wounded Warriors prototype housing at Ft. Belvoir.)

Stay tuned to aiava.org for details on his upcoming presentation February 7.

7

Kerns Group to Restore Haitian Cathedral



Port-au-Prince parishioners currently worship in a temporary building.

On January 12, 2010, a catastrophic magnitude 7 earthquake collapsed much of the infrastructure of the Caribbean nation of Haiti, including the capital’s Episcopal cathedral. Noted for its interior murals depicting Biblical stories exclusively featuring figures of black African heritage, Holy Trinity Cathedral was largely destroyed, including its organ, formerly one of the largest in the region.

Since then, parishioners have been worshipping and attending the church’s schools in temporary shelters on the grounds of the demolished complex.

In mid-December 2012, the Episcopal Church selected Kerns Group Architects in Arlington to design replacement facilities for the church in Port-au-Prince. “Our decision was unanimous in believing that [Kerns Group team members] best understand the challenges we face and possess the skills and experience to help us overcome them successfully,” wrote the Right Rev. Jean Zache Duracin, bishop of the Episcopal Diocese of Haiti.

“This cathedral is sacred ground,” notes Thomas Kerns, FAIA. “We’re going to do our best to incorporate Haitian art, local building materials, and natural light ... We want the new cathedral to truly reflect Haitian culture and to inspire all people who worship there, in this generation and for generations to come.”

The AIA Is Good for Business

By Nicholas E. Vlattas, AIA, and Deborah Marquardt

Dues for members of the Virginia Society AIA increased this past year, which is always an agonizing decision for board members. Not unexpectedly, the VSAIA Board is hearing some rumbles. Annual dues for local, state, and national organizations can total nearly \$650 for Virginians. This expense can be challenging for individuals and companies that cover this expense for employees.

When resources are tight, we naturally question how money is spent. For example, some question why a portion of state dues supports the Virginia Center for Architecture, especially when their perception is that programs and speakers conflict with those that local chapters offer.

Such scrutiny is healthy and not isolated to Virginia. A current national initiative seeks to make the AIA more relevant to members and the public, brought on, perhaps, by a recession that cost 30 percent of architects their jobs and finds another 25 percent underemployed. Current times are forcing us to find creative and innovative ways to redefine our profession. National AIA CEO Robert Ivy, FAIA, says the study "will enable the AIA to communicate best why it is an indispensable resource and why architects and architecture play an essential role in everyone's lives."

Early feedback from around the country in the year-long national campaign suggests the need is great, as many people don't understand what value architects bring to a project. That is both disappointing and bad for business.

Never a better time to be a member

Professional networking is an obvious value. Connections can be made at any level, leading to new professional opportunities and projects.

Local chapter efforts ensure we are up-to-date on Continuing Education credits. This was a Virginia initiative that has been copied throughout the country.

Virginia's Emerging Leaders in Architecture program helps to develop, not lose, some of the best and brightest in the profession when many firms don't have the resources to have leadership or succession plans in place. It is another Virginia-first program that other chapters are scrambling to imitate.

Government advocacy—lobbying at the state and national levels—is critical to us. Thoughtful development of the new IgCC green code is just one excellent example of architects taking the lead on sustainability codes for public health, safety, and welfare.

Duncan Abernathy, at the Virginia Society, adds several other Virginia lobbying efforts that have changed the profession:

■ **Licensure.** William C. Noland and four or five other architects instigated the idea of licensure in Virginia. Without licensure, where would the profession be?

■ **Statute of repose.** Virginia enjoys a much shorter period of liability than most other states. Some states have double the Virginia timeframe in which an architect is held liable for problems involved in the project. The rationale for even establishing such a limit of re-

sponsibility is that at some point—five years in Virginia—the responsibility is expected to shift to those maintaining the structure.

■ **Qualifications-based selection.** QBS, as it is called, sits within the Virginia Public Procurement Act. It acknowledges that at least when public investments are at stake, professional services should be procured by ranking firms by qualifications, not price. Widgets can be procured through price alone, but not professional services.

Concerning regulatory matters, overseen by the Board of Architects, Professional Engineers, Land Surveyors, Certified Interior Designers, and Landscape Architects (APELSCIDLA), Abernathy is particularly proud of successful VSAIA-sponsored legislation in 2007 regarding unlicensed practice. The APELSCIDLA Board's authority was limited to those who are regulated. The new law gives the board civil authority to fine unlicensed individuals for practicing or offering to practice architecture. Abernathy says: "To my knowledge only our board and the board for Realtors® have such civil authority in Virginia. This does not alter any criminal charges that a commonwealth's attorney may wish to file."

Recognition and resources

Think about AIA design award programs, at all levels, which celebrate good design and demonstrate how it makes our world better. Further, the Virginia Society's Citizen Architect program makes it easier for architects to become more involved in advocacy through appointed or elected community leadership positions. As Abernathy says, "the program was so revelatory that the AIA adopted it. It has morphed into several avenues, depending upon the chapter and state. But all have their merits."


National resources, such as practice tools, contract documents, workshops on working in international markets, and the Architectural Billings Index help us every day with business.

As for the Virginia Center for Architecture, executive director Helene Combs Dreiling, FAIA, who will serve as the national AIA president in 2014, describes the Center's core mission as public outreach. It was the first such center in the U.S., which now number more than 20. "The Center is about elevating the public's appreciation of architecture, and that's where the plus to the bottom line comes in. We want people to understand that buildings and communities will be enhanced if they engage architects in designing their buildings."

That's not to say there shouldn't be an important conversation between state and local affiliates about redundancy of efforts, wasted efforts, or resources that aren't optimized. Rumbles are rooted in a desire to strengthen the AIA by examining the dynamic of offering more programs at all levels versus a tipping point that puts too much financial burden on members. It's all about preparing our profession for the future in a very different world.

To stay updated on the national conversation about AIA repositioning, check aia.org/repositioning.

TOWERS & TEAKETTLES



MICHAEL GRAVES
ARCHITECTURE + DESIGN

JANUARY 17 - MARCH 31

OPENING RECEPTION

Thurs. Jan. 17, 5:30–7:30 p.m.
Hear remarks by Karen Nichols,
FAIA, Principal of Michael
Graves & Associates

CURATED CONVERSATION

Thurs. Feb. 7
Take part in a curated
conversation with
Michael Graves, FAIA

VIRGINIA CENTER FOR ARCHITECTURE

2501 Monument Ave.
Richmond, Virginia 23220
www.virginiaarchitecture.org
(804) 644-3041, ext. 100

Top Ten Green Building Products

As it does every year at the Greenbuild Conference, BuildingGreen Inc. announced the 10 most innovative green products. This year's selections include software for modeling heat and moisture flow, a method of creating concrete block that sequesters carbon dioxide, a remarkably energy-efficient low-e window coating, an LED streetlight that promises precisely focused delivery of 100 lumens per watt, and other resource-efficient materials and systems for optimum energy and water-management performance. Beyond suggesting specific products for architects to specify, BuildingGreen recognizes these products to show that—through aggressively creative approaches—manufacturers everywhere can provide environmentally sensitive products their customers can source locally.

Announced this past November in San Francisco, the top 10 environmentally innovative products were selected by the editors of Building Green's *GreenSpec* and *Environmental Building News*. The editors looked for products that address natural-disaster resilience, energy efficiency, thoughtful use of materials, and system optimization, notes BuildingGreen founder Alex Wilson.

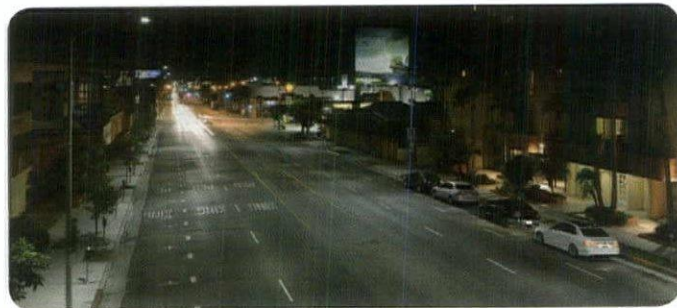
Viridian Reclaimed Wood ▶

The company reclaims a variety of high-grade hard and soft wood from pallets, crates, and packing material collected from the Port of Portland—as well as from local warehouses and school retrofits—and makes flooring, tabletops, paneling, veneers, and more. They heat-treat and kiln-dry the wood without chemicals so that the product is clean and dimensionally stable. To laminate or edge-join their stock, Viridian uses radio-frequency-cured PVA glues and finishes that meet California Air Resources Board standards. The results are a range of FSC-certified reclaimed wood products.



◀ XS-P Series Streetlight

Cree's XS-P Series LED street and area light incorporates Cree LED light engines and BetaLED's NanoOptic Precision Delivery Grid optics to focus 100 lumens per watt of either 4000K or 5700K light precisely where needed. They have an optimum payback of three years, functioning life of 100,000 hours, and a five-year warranty. Lights are compatible with dimming drivers. Occupancy sensors, remote monitoring, and other controls are optional.



Atlas CMU Block with CarbonCure ▼

Production of Portland cement is thought to produce 5 percent of the human-generated carbon dioxide globally each year. The CarbonCure system for producing concrete masonry mitigates that by injecting carbon dioxide into the blocks as a curing agent via a specially designed mold. The result is that the product sequesters CO₂ in units' molecular matrix while also improving strength, reducing the amount of Portland cement required, and speeding curing. The incorporation of post-consumer recycled glass aggregate is another block-manufacturing option.



LoE-i89 Glazing

This new coating from Cardinal Glass is a sputtered indium tin oxide hard-coat that can be applied to the exposed surface of an insulated glass unit without the typical tinted and pebbled characteristics of those coatings. This clarity allows for an additional low-emissivity coating on the interior of a double-glazed window unit without affecting visibility. The result is low-e performance previously achievable only with a triple-glazed window. The system can provide R5 insulation with light transmittance that allows for solar-gain applications as desired. Already available on tempered glass, the LoE-i89 will be available on all glass types in 2013, replacing the LoE-i81 line of products.

Amorim Expanded-Cork Boardstock Insulation ▶

As Portuguese cork-growers continue to expand the scope of uses of their sustainable product (which involves periodic harvesting of bark from long-established, biologically diverse cork forests, a process that does not harm the trees). Cork pellets that are steam-expanded and naturally bind to one another in the process have excellent insulation characteristics (R3.6/inch) and do not involve the ozone-damaging flame retardants and blowing agents used in blown-plastics insulation. The resulting slabs also offer excellent acoustic control, are highly durable with moderate vapor permeability, and are fire resistant.



for 2013

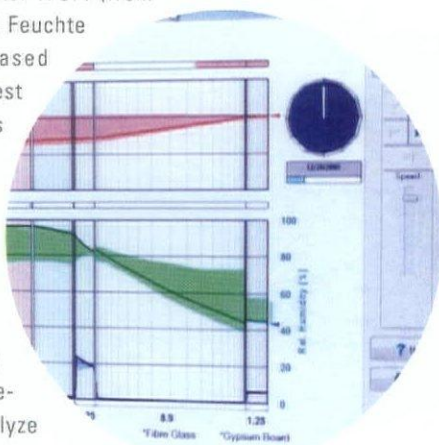
GeoSpring Hybrid Electric Water Heater

Starting in mid-April 2015, water heaters over 55 gallons will have to be twice as efficient as a standard electric-resistance-heated unit. This has spurred a wave of innovation, such as the GE 50-gallon GeoSpring, which, in hybrid mode, has 2.35 times the efficiency of an electric-resistance-only heater and a first-hour capacity of 63 gallons of hot water. With two 4,500-watt elements, the unit has four modes ranging from all-electric-resistance to all-heat-pump water heating. It runs at 55 dB (relatively quiet among hybrid water heaters but louder than a refrigerator) and has a limited 10-year warranty.



WUFI Software

From Fraunhofer IBP and Oak Ridge National Laboratory, this software models the highly complex transient heat and moisture performance of multi-layer building components under various conditions. WUFI (from the German Wärme und Feuchte Instationär) is PC-based and has been used to test "smart" vapor retarders (those that vary permeability characteristics as humidity and temperature change), assess envelope performance in driving rain, estimate masonry drying time, predict the effectiveness of repairs, and analyze material substitutions.



Haiku Ceiling Fans

This ceiling-mounted unit by Big Ass Fans uses a brushless, electronically commutated DC motor for increased energy efficiency for both residential and commercial applications. Its 2- to 30-watt ratings significantly exceed Energy Star requirements. The 60-inch-diameter blades come in either a composite material with black or white finish or a hand-finished laminated bamboo in caramel or cocoa. The fans feature LED displays and remote controls and can spin in reverse. The Haiku fan comes with a limited lifetime warranty.

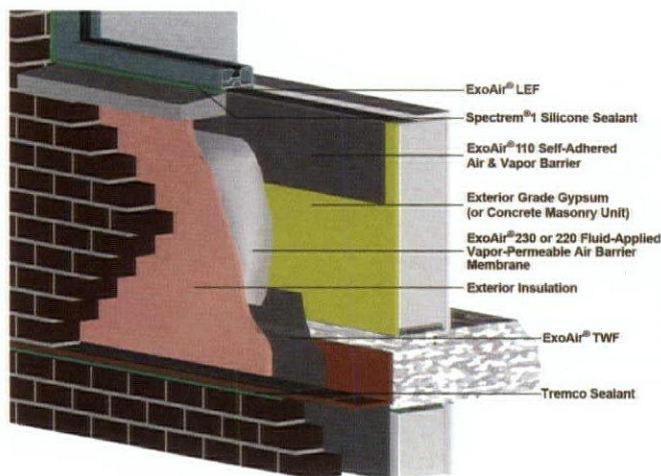
Cyber Rain Irrigation Controllers

The EPA estimates that more than 3 billion gallons of landscape-irrigation water are wasted every year. As one response, Cyber Rain systems use local weather data (which can be accessed, aptly enough, through cloud computing) along with plant, sprinkler, soil, slope, and sun-exposure data to calculate evapo-transpiration and provide just the right amount of water to maintain the health of different plant species and avoid overwatering. The system can report conditions and be controlled remotely.



Proglaze ETA Engineered Transition Assemblies

Tremco has matched a complete system of aluminum- and silicone-based sealants, membranes, primers, and flashing (its own products) with insulation and sheathing from other manufacturers to offer an entire 50-100-year integrated building enclosure assembly. The company works with design firms to ensure proper detailing and offers a warranty on air- and water-barrier performance. Air leakage through the assembly is 0.004 cfm/ft² and water vapor transmission is 2.59 perms. There is no VOC or phthalate content. The aluminum components are 60 percent recycled, 45 percent of which is post-consumer.



Design Awards for 2012

The five categories of the 2012 Virginia Society AIA Awards for Excellence in Architecture are Architecture, Contextual Design, Residential Design, Interior Design, and Historic Preservation, each judged by a separate jury from a total of 150 project submissions. "The body of work submitted would make any AIA component proud," jury members noted. "The difficulty was certainly not in identifying excellent projects but instead in selecting the very best from among the sizeable assemblage of exceptional work Virginia Society members are producing around the world."

Held annually, the Awards for Excellence in Architecture recognize projects no older than five years that contribute to the built environment as clear examples of thoughtful, engaging, resource-efficient, and beautiful work.

The Virginia Society AIA would like to thank IMAGINiT Technologies, a Rand Worldwide Company; Hanbury Evans Wright Vlattas + Company; SKANSKA USA; Haynes Whaley Associates, Inc.; Vanderweil Engineers, LLP; and Keith Fabry Reprographics for their sponsorship of the 2012 awards program. The VSAIA would also like to thank the esteemed members of the 2012 Awards for Excellence in Architecture juries:

12

ARCHITECTURE

In their deliberations, the jury considered aesthetics, adherence to the client program, proven and projected building performance, and concept development.

Joseph Bilello, PhD, FAIA, Ball State College of Architecture and Planning, chair
Steve Alspaugh, AIA, Schmidt Associates, Indianapolis
Bruce Race, FAIA, RACESTUDIO, Berkeley, Calif.

CONTEXTUAL DESIGN

The awards for Contextual Design recognize outstanding architecture that perceptibly reflects the history, culture, and physical environment of the place in which it stands and that, in turn, contributes to the function, beauty, and meaning of its larger context.

Graham S. Wyatt, AIA, Robert A.M. Stern Architects, New York City, chair
Jeffery Povero, Povero & Company, New York City
Daniela Holt Voith, AIA, Voith & Mactavish Architects, Philadelphia

RESIDENTIAL DESIGN

Aesthetic appeal and functionality are two long-established criteria for home design as are affordability and resource efficiency. The jury looked at each submission in its totality toward meeting these goals.

Casius Pealer, Esq., Assoc. AIA, Tulane School of Architecture, New Orleans, chair
Lisa Hodges, Oystertree Consulting, Baltimore
Jody McGuire, Studio 8, New Haven, Conn.

INTERIOR DESIGN

Interior Design projects of distinction evince mastery of composition, functionality, material and color palettes, and well-integrated adherence to the highest levels of accessibility, health and safety, environmental, and occupant-comfort considerations, standards, and regulations.

Mary Burke, FAIA, IIDA, Burke Design and Architecture, New York City, chair
Annie Chu, Chu + Gooding Architects, Los Angeles

HISTORIC PRESERVATION

The Historic Preservation category focuses specifically on excellence in strategies, tactics, and technologies that advance the art, craft, and science of preserving historically significant buildings and sites. The jury took into consideration adherence to local, state, and national criteria for historic preservation.

Ronald Battaglia, FAIA, Flynn Battaglia Architects, Buffalo, N.Y., chair
Barbara Campagna, FAIA, Barbara A. Campagna/Architecture + Planning, Buffalo, N.Y.
Peter Flynn, AIA, Flynn Battaglia Architects, Buffalo, N.Y.

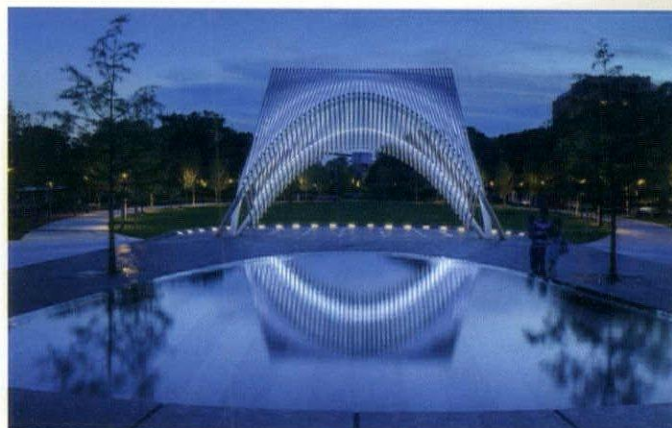


Myriad Botanical Gardens, Oklahoma City Gensler, Washington, D.C.

HONOR AWARD

When Devon Energy moved into its new 52-story headquarters building in 2012, the chief executive decided to revitalize this nearby 1970s-era botanical garden as an urban oasis. Working with the city, the company created a world-class outdoor living room for the city with ample amenities for community activities. The design includes an open-air garden pavilion, a restaurant, public restrooms, an ice skating pavilion, an addition to the original conservatory, and a band shell. The architect, working with landscape architect James Burnett, created a common architectural language among multiple buildings that blend light, shadow, proportion, scale, and materials with pure geometric forms, white cementitious panels, water-clear glass, extended overhangs, and a feeling of buoyancy. The restaurant and pavilion are simple yet finely crafted, providing what the jury called “a spiritual quality.”

- A large circle forms the roof of the pavilion, and a smaller, off-center, interior circle on the north side provides a cantilevered overhang shading the southern exposure with a screen to filter the sun from the west.



- The band-shell setting protects it from high winds. Its open plan makes it more a backdrop than a shell, providing shade by day and light fixtures at night.
- Attendance has skyrocketed, and the park has, for the first time ever, become a sought-after location for weddings as a backdrop worth remembering.

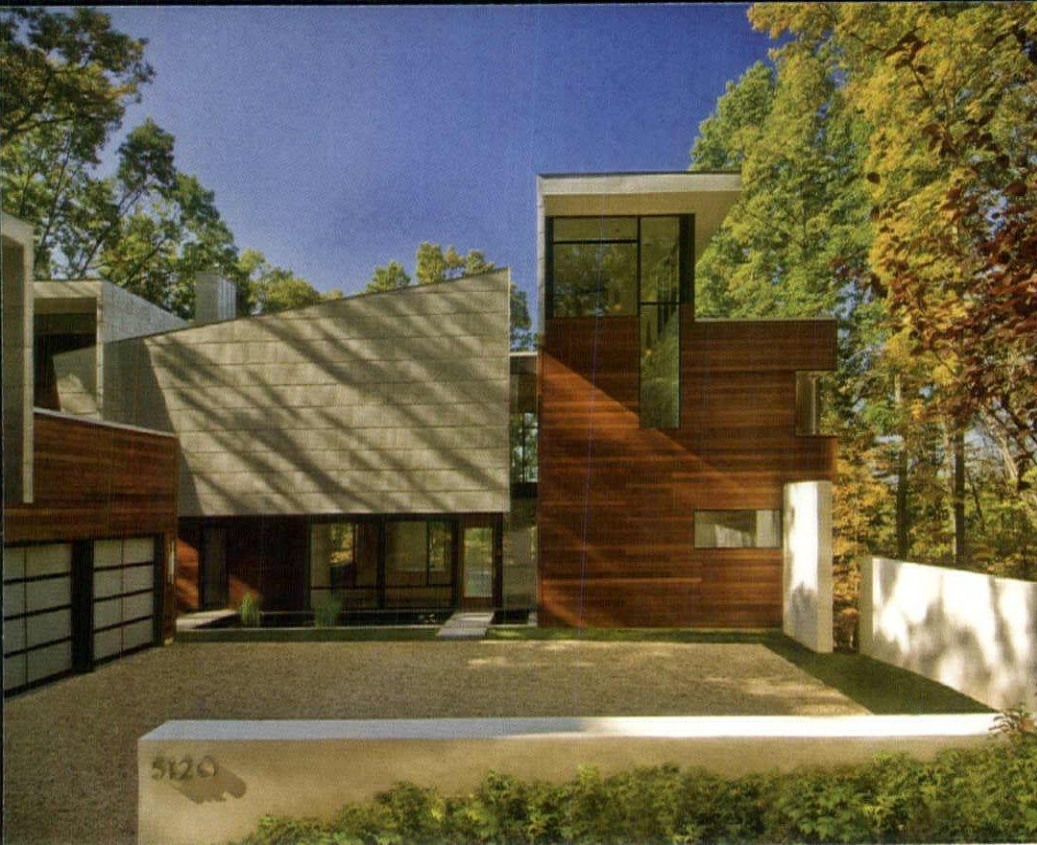


Architect: Gensler, Washington, D.C.

Owner: City of Oklahoma City

Contractor: Lippert Brothers, Inc.

Photographer: Prakash Patel



Wissioming Residence, Glen Echo, Md.

Robert M. Gurney, FAIA, Architect

HONOR AWARD

14

Sited on a heavily wooded lot overlooking the Potomac River, this new house, on the footprint of an earlier home and with a suspended pool, only minimally disturbs the steeply sloping site. The owner/builder included his office, guest suite, and garage in an adjacent building, which serves as a nighttime “lantern” for the main residence it faces across a reflecting pool. “This is an elegant modern home that creates a place in the woods,” the jury stated. “It is comfortable and elegant in its proportions and composition. Light and space flows through the plan. The relationship between the inside and outside of the wooded site is explored to great advantage. The palette of materials is well suited for the setting and Modernist minimalism. The many energy-saving features and efficiency of construction, combined with admirable design clarity—including the entry court, which serves as a well-considered outdoor room and provides a welcoming sense of arrival to the compound—make this a truly distinctive residence.”

- Precast concrete planks hastened construction and allowed for an under-floor hot-water heating system.
- The concrete, along with terrazzo also provide thermal-mass for passive temperature control.
- Overhangs and deciduous trees allow shade in summer, sunshine in winter, and a continuum of stunning views all year round.

Architect: Robert M. Gurney, FAIA, Architect, Washington, D.C.

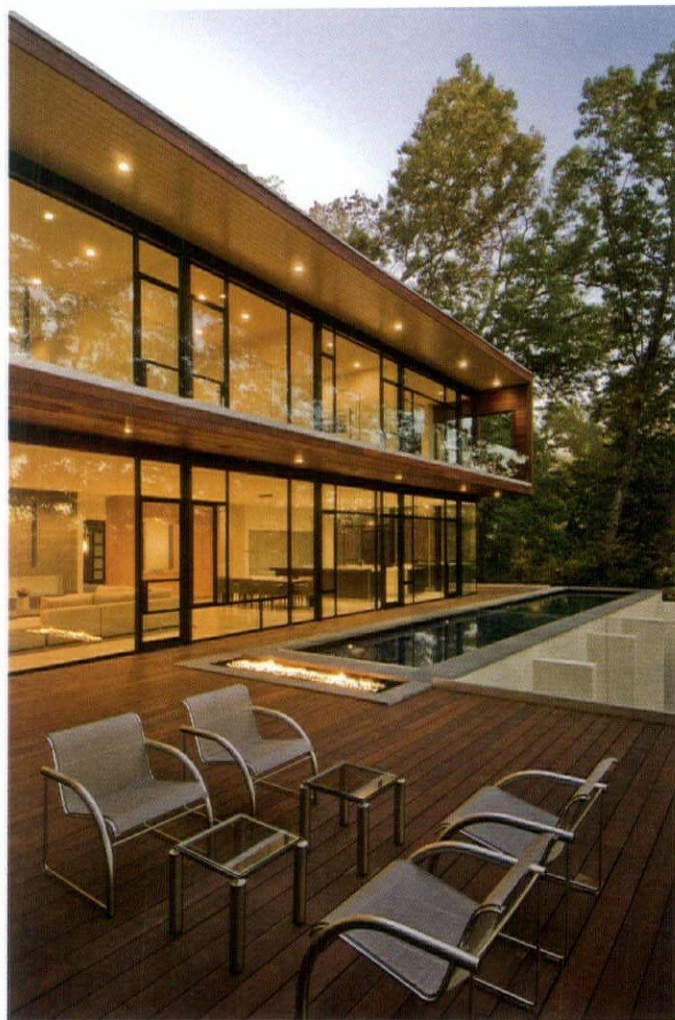
Project Architect: Brian Tuskey

Interior Designer: Therese Baron Gurney, ASIC

Engineer: D. Anthony Beale LLC

Contractor: Bloom Builders

Photographer: Maxwell MacKenzie Architectural Photographer





Affiliated Dermatologists of Virginia, Richmond

SMBW

MERIT AWARD

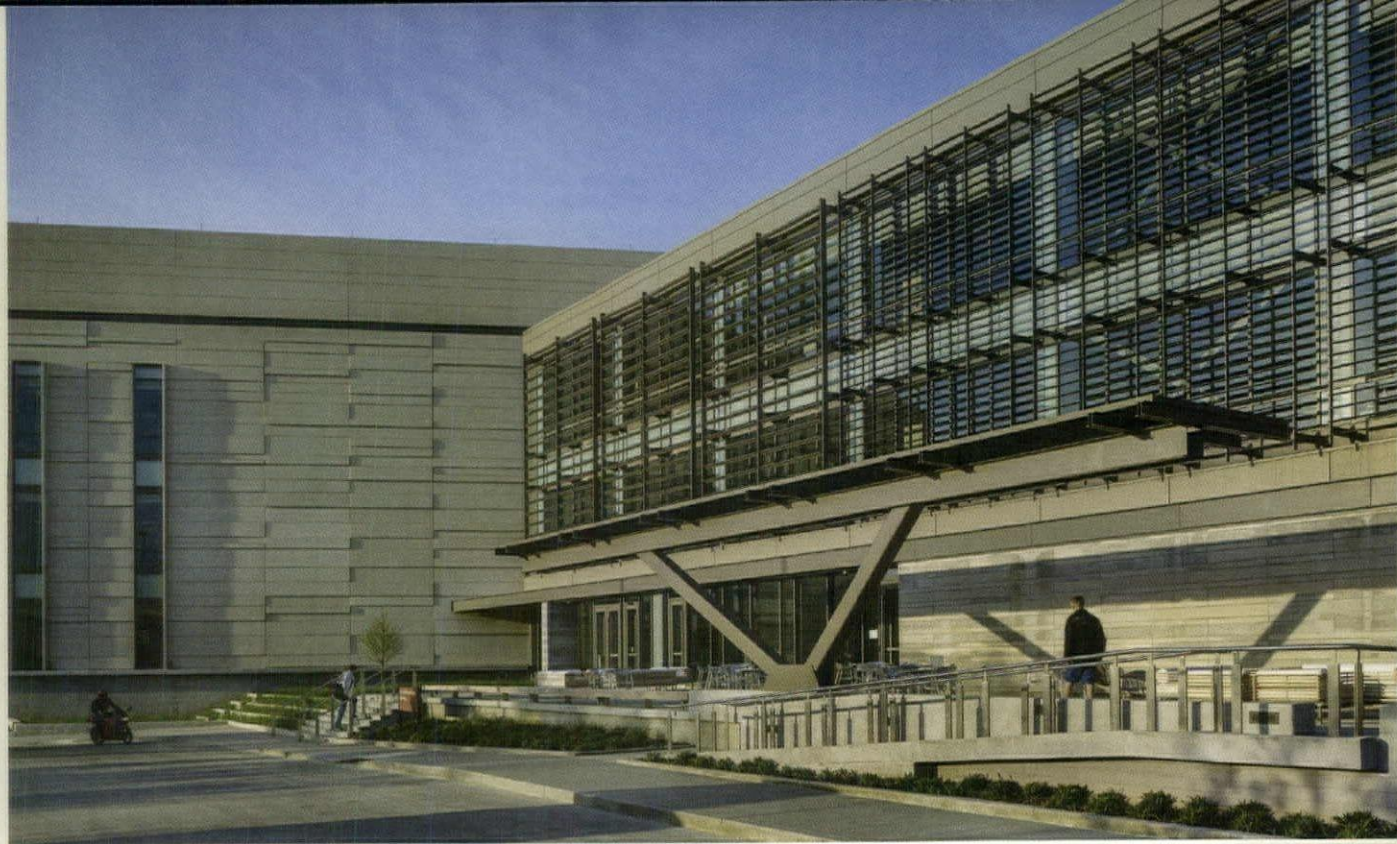
This new clinic, with its pair of spare and elegant pavilions in a partially wooded landscape, is an intentional departure from the typical Richmond medical facility. The site solution preserves the tree canopy along the principal road frontage and places the buildings and parking to the rear of the site. A 6,500-square-foot clinic and 2,500-square-foot surgery center form an inward-looking composition and define a walled garden. A high sheltering roof floats over the waiting areas, connecting the two buildings, covering a landscaped terrace, and framing the view into the garden. "The Zen garden is a focal element from multiple locations," noted the jury. The ordered and geometric space presents a marked contrast to the natural woodland groves that have been preserved on the site. The result is an interior environment that exerts a calming influence on patients waiting to see a physician. According to the staff, patient reaction to the building has been extremely positive, with a noticeable increase in patient volume and satisfaction.

- Small groves of holly and magnolia under a canopy of tulip poplars and old-growth pines visually screen the road, a storm-water management system, and a bio-filtration area.
- Seating areas and lobbies open onto the contained terrace landscape to provide serenity.
- The rational building layout maximizes efficiency throughout.

Architect: SMBW PLLC, Richmond
Owner: IHH Properties, LLC
Contractor: Trent Corporation
Photographer: Ansel Olson Photography

inform 2012: number six | 2013: number one





Indiana University Cyberinfrastructure Building, Bloomington SmithGroupJJR, Durham, N.C.

MERIT AWARD

16

This vibrant hub for a developing technology park is the new home for one of the most progressive university information-technology organizations in the country. For the first time, the center brings together the university's scientists, strategists, administrators, and technical support under one roof. Thus, the building is designed to enhance collaboration and cross-hybridization among divisions and provide a robust infrastructure emblematic of their avant-garde work. The teams develop modern information technology to support the university's vision for excellence in research, teaching, outreach, and lifelong learning. Workshops—clusters of collaboration spaces and lounge areas with varying degrees of privacy—are located at the intersection of two wings near a centralized multistory lobby. The program also includes specialized labs, a 250-person conferencing space, a cafe and dining hall, and state-of-the-art teleconferencing facilities. "The buildings form and elevations are modern, minimal, and an exact expression of the building's purpose and function," observed the jury.



- With a staff of nearly 700, Indiana's University Information Technology Services had been scattered across several offices on campus, in spaces that neither supported nor reflected their exceptional work.
- In the competitive world of information technology, this new environment offers enticing openness, transparency, and flexibility.
- The new facility serves as a functional and symbolic heart for both the organization and the surrounding campus.

Architect: SmithGroupJJR, Durham, N.C.

Owner: Indiana University

Contractor: Messer Construction

Photographer: Prakash Patel



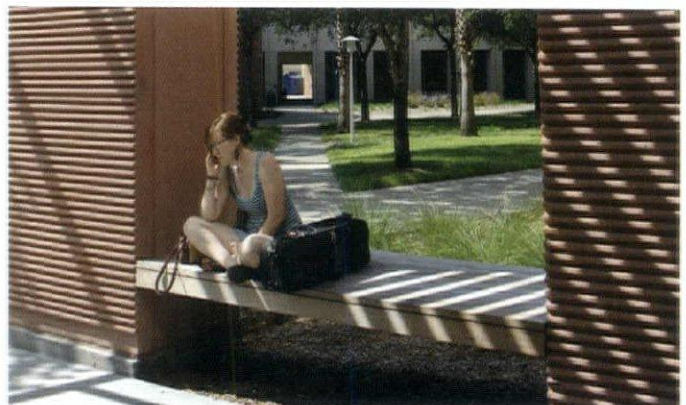
University of South Florida School of Music, Tampa

Hanbury Evans Wright Vlattas + Company, Design Architect
Performance Architecture, Collaborating Architect

MERIT AWARD

17

The facility houses choral, orchestral, and jazz halls; a 500-seat concert hall and 100-seat student recital hall; classrooms; faculty studios; and student practice rooms. "The support spaces effectively provide acoustical buffers," the jury observed. The building anchors a campus edge previously defined by asphalt parking lots and now connects the university's academic core and existing art quadrant while heightening community awareness of the music school. Challenging economics inspired a dramatic yet simple defining element—the lyrical wall—to create interest and identity. The wall's playful distribution of light and shadow is a non-literal expression of sound-generating space. It also creates a threshold as people move through the building. At various places, the wall is part of the building façade; opens to a courtyard and an amphitheater; reveals smaller, intimate eddies; soars to 55 feet;



and diminishes to bench height. With windows at different heights and materials that achieve a bas relief expression, light and shadow create a rhythmic pattern that works day and night.

- The site has inherent public and academic faces as it captures and directs pedestrian traffic on the site's eastern edge.
- Providing relief from the hot sun, an open-air, shaded public concourse also serves as a public/patron/academic interface.
- As a backdrop for the 400-foot concourse, the lyrical wall connects the academic core to the public street.

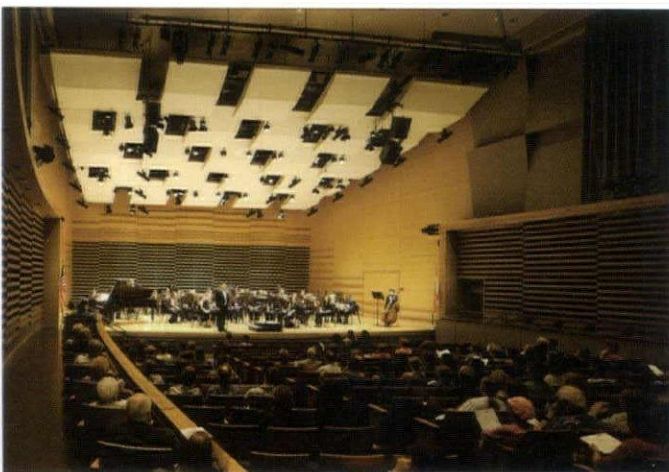
Design Architect: Hanbury Evans Wright Vlattas + Company, Norfolk

Collaborating Architect: Performance Architecture, New Orleans

Owner: University of South Florida

Contractor: Skanska USA

Photographer: Robert Benson Photography





Weatherhead Hall, New Orleans

Hanbury Evans Wright Vlattas + Company, Design Architect
John C. Williams Architects, Architect of Record

18

MERIT AWARD

Working diligently to upgrade and re-energize its residence halls, Tulane became one of the first campuses in the nation to transform its campus living and academic experience specifically to attract and retain students through the creation of residential learning communities, and the jury commended it for transforming the campus living experience. The master plan created four new communities. The fall 2011 opening of Weatherhead Hall fulfills that plan, capping \$120 million in renovation and new construction. The new community was delayed while the university recovered from Hurricane Katrina. Today, it serves 270 students, residence advisors, and a professor in residence. The courtyard arrangement makes maximum use of solar orientation and air movement, with energy modeling used to test elements such as sunscreen configurations. The hall's first level is above the height set by FEMA to prevent flooding, and all glazing is hurricane resistant.

- Much attention was paid to saving a live oak tree as a defining courtyard element and for the significant shade it provides in the humid New Orleans environment.
- Placement of a home for the professor in residence, the director's apartment, and social lounges at three primary corners of the hall provides a strong organizational arrangement.
- The scale of the faculty residence responds to the single-family homes in the adjacent neighborhood.

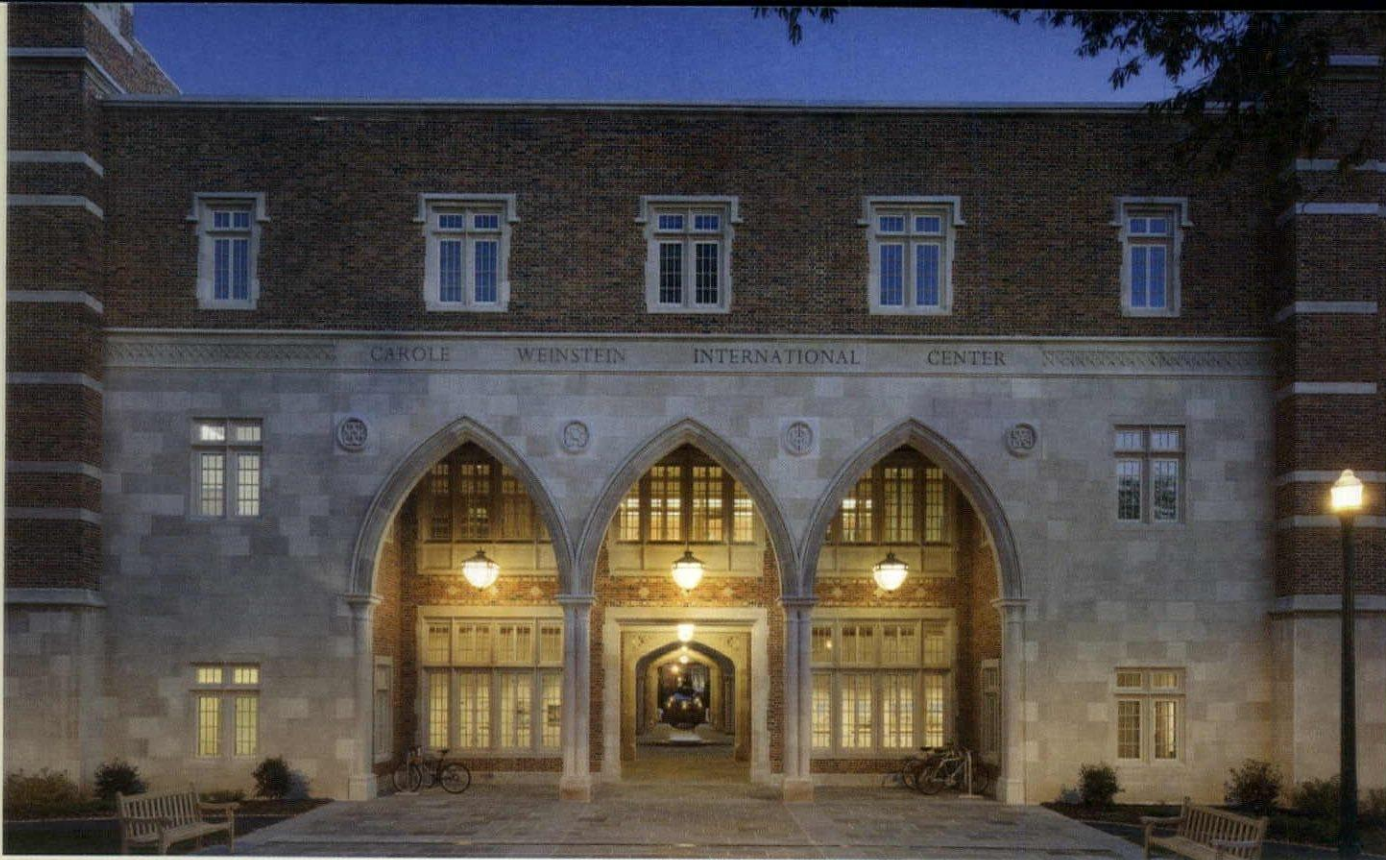
Design Architect: Hanbury Evans Wright Vlattas + Company, Norfolk

Architect of Record: John C. Williams Architects, New Orleans

Owner: Tulane University

Contractor: Woodward Design + Build





Carole Weinstein International Center, Richmond

Glavé & Holmes Architecture

HONOR AWARD

This building honors the rich architectural context of the University of Richmond's Collegiate Gothic style and responds to the global mission of the center it houses. The courtyard is the spatial organizing element both visually—visible from most parts of the building—and aurally with its globe-topped fountain. Its intimate scale and immediate access to the Gallery, Café, and Commons are conducive to formal and informal gatherings alike. Many of the building's architectural elements, such as the column capitals and limestone banding, were inspired by the architect of the university's first five buildings, Ralph Adams Cram. "This is an outstanding building," the jury proclaimed, "clear in its concept and exemplary in its detailing. The central courtyard is handsomely executed and rich with reference, appropriate to the International Center's program. This is not copy-book Gothic; the design is inventive and playful. The building is at once iconic and contextual—and that's hard to do."

- Standing at a campus crossroad, the building is one with its surroundings through its grand scale and red brick with carved limestone detailing.
- Aesthetically pleasing iconography from around the world clearly conveys the center's mission.
- Both scheduled instruction and informal gatherings take advantage of the Southern exposure to extend the usable season in Richmond's temperate climate.

Architect: Glavé & Holmes Architecture, PC, Richmond

Owner: University of Richmond

Contractor: Taylor & Parrish, Inc.

Photographer: Virginia Hamrick Photography





James P. Muldoon River Center, St. Mary's City, Md. Muse Architects

MERIT AWARD

20

This 15,000-square-foot sailing and crew boathouse includes offices, locker rooms, classrooms, storage and boat repair rooms, a conference room, and a multipurpose room. The campus is located adjacent to Historic St. Mary's City in southern Maryland, and its building guidelines maintain continuity with that historic context. The River Center abuts a prominent college arrival point and is a fitting replacement for an outdated facility that did not fit into the campus master plan. Two structures—a main building and a crew storage building—flank a working boatyard, which reduces the scale of the overall facility and maintains important views of the St. Mary's River. "This project is a testament to the architect's understanding of the subtle cues of Maryland architecture," the jury said. "The design dares to be understated and is all the more successful as a result. The siting and massing are excellent, the plan is smart, and we especially enjoy the view down the loggia to the water."

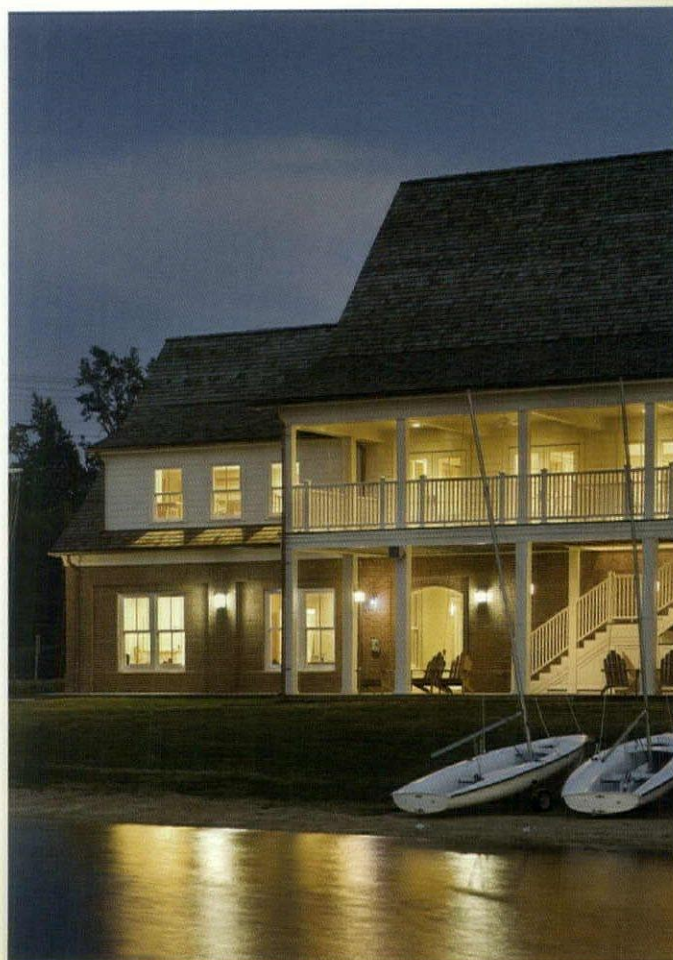
- The college's varsity sailing team, in existence only since 1980, has won 15 national titles.
- Sustainable design features include geothermal heat pumps, waterless and water-saving fixtures, certified renewable wood materials, and low-VOC coatings and sealants.
- Environmental approval was granted by the Maryland Department of the Environment and the Chesapeake Bay Critical Areas Commission.

Architect: Muse Architects, Bethesda, Md.

Owner: St. Mary's College of Maryland

Contractor: KBE Building Corporation

Photographer: Paul Burk Photography

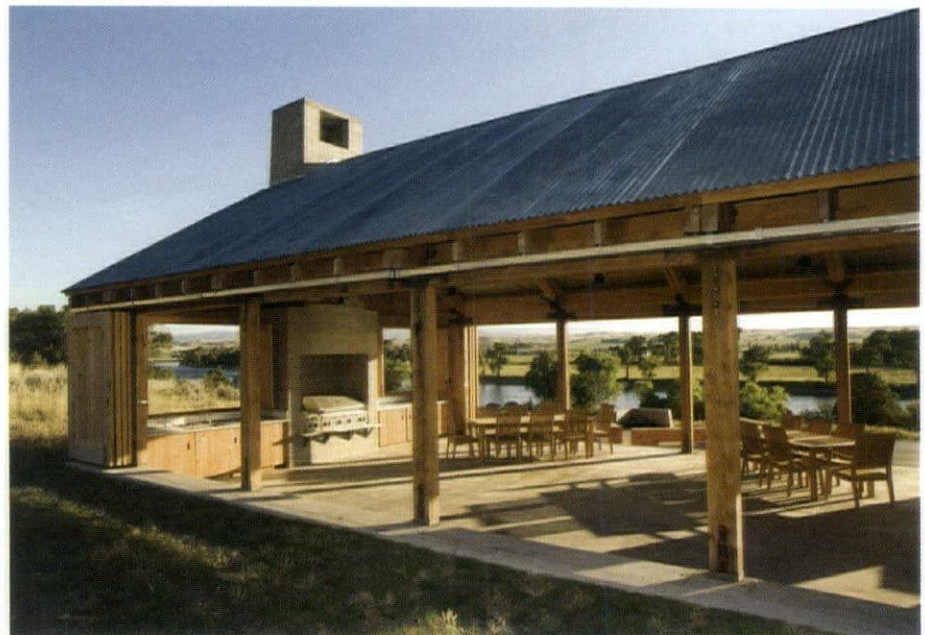




Riverside Barbeque Pavilion at Yellowstone Bend Ranch, Big Timber, Mont. Muse Architects

MERIT AWARD

Yellowstone Bend Ranch is a 3,600-acre property in south-central Montana. In response to unsightly subdivisions being dropped onto the landscape in the area, the owners permanently conserved more than 85 percent of the ranch and partnered with local herders who sustainably graze cattle on much of that land. This maintains open space, enhances native grass production, and promotes local agriculture and ranching. On the balance of the ranch, 22 building sites and other common areas have been proposed. The Riverside Barbeque Pavilion offers residents a place of repose for shelter and long views to the mountains, river, and wildlife nearby. "This is a great modern interpretation of an under-recognized building type: the open-air pavilion," the jury agreed. "In its materials—the corrugated roof, the concrete mass of the hearth—it evokes old state park shelters. It sits comfortably on the landscape, not at the crest of the hill but nestled in the side and nudged toward the water view. It is elegant in its simplicity—no extra notes here—and the materials used make this a building that will only get better as it ages."



- The materials and shapes of the structure recall local ranch vernacular.
- Sliding barn doors provide protection from strong winds as well as security when the building is vacant.
- Locally resourced materials include corrugated tin roofing and timber.

Architect: Muse Architects, Bethesda, Md.

Owner: Meriwether Land Co., LLC

Contractor: On-Site Management

Photographer: Lynn Donaldson Photography



Restoration/Renovation of an Addition to a 1930s Residence, Washington, D.C. Muse Architects

HONOR AWARD

22

The owner of a residence in a historic neighborhood sought to restore and expand the home to accommodate a family of four, an in-law apartment, an exchange-student suite, a resident property-caretaker family, and periodic hosting of charitable events. The plan of the existing residence was organized around a two-story, 40-foot-square core flanked by two symmetrical single-story wings. Immediately behind the core was a 40-foot-square terrace. The living/dining/reception-room addition is a two-story enclosure of that terrace, which has access to all original and new residence rooms. Beyond establishing a renovated core, the design team set two other overarching goals: restore the lawn and garden and unobtrusively incorporate the most up-to-date resource-efficiency measures. The jury found the resulting solution “beautifully conceived and crafted to bring new life into an aging house. Such care for and renovation of beautiful existing architecture is a cornerstone of sustainability. This project provides a good road map for enhancing and modernizing a beloved building—including substantial energy-efficiency and sustainable-design measures—while being respectful of the original interior and exterior fabric.”



- New spaces are located toward the back to maintain the existing lawn and garden.
- The new living/dining/reception room is established as an interior courtyard.
- Resource-efficient systems include geothermal and passive heat exchange, photovoltaics, rainwater collection, natural lighting, and HIR and LED lights.

Architect: Muse Architects, Bethesda, Md.

Contractor: Horizon Builders Inc.

Photographer: Alan Karchmer, Architectural Photographer

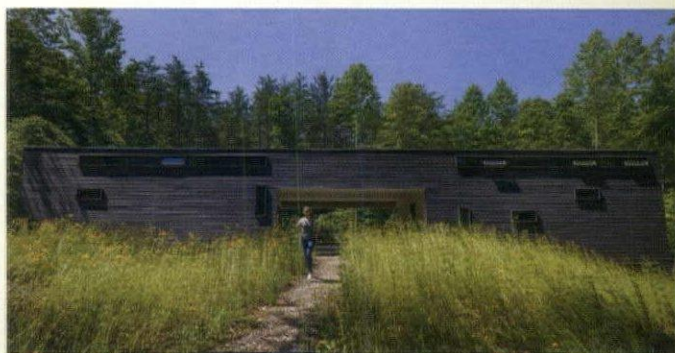
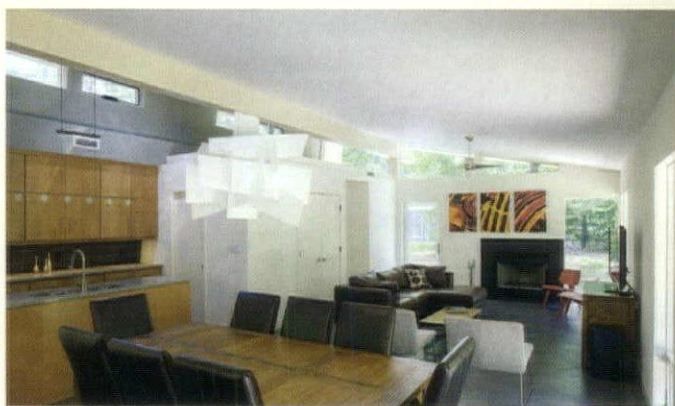


Dogtrot at Stony Point, Charlottesville Hays + Ewing Design Studio

HONOR AWARD

For a place of calm, the clients chose a secluded wooded site. The dogtrot design provides them a clear divide between the public and private sides of their house. The living and dining rooms and kitchen are in the eastern wing and offices and the master bedroom in the western wing, with three bedrooms partially embedded in the sloping hillside. The approach to the house is a weathered-wood wall with small windows, which enhances the experience of arrival and discovery. That north wall merges into the roof in contrast to the shading overhang on the south-facing courtyard side. The design harmonizes with the landscape, and outdoor living is as important as indoor. The clients enjoy the seasonal variation of the landscape and wildlife and spend much of their time in the courtyard, eating their meals outdoors from early spring to late fall. "Using a play on the traditional dogtrot form, this house does a lot with a little," the jury commented. "The seamless slab-to-ground-plane connection makes interior spaces essentially a protected extension of the larger landscape."

- The landscape design employs native, non-invasive, and drought-tolerant plantings, with minimal lawn.
- High-efficiency systems include Energy Star fixtures, LED and fluorescent lights, geothermal heat exchange, radiant floors, and cross ventilation.
- Environmentally benign materials include soy-based foam insulation and borate-treated lumber.



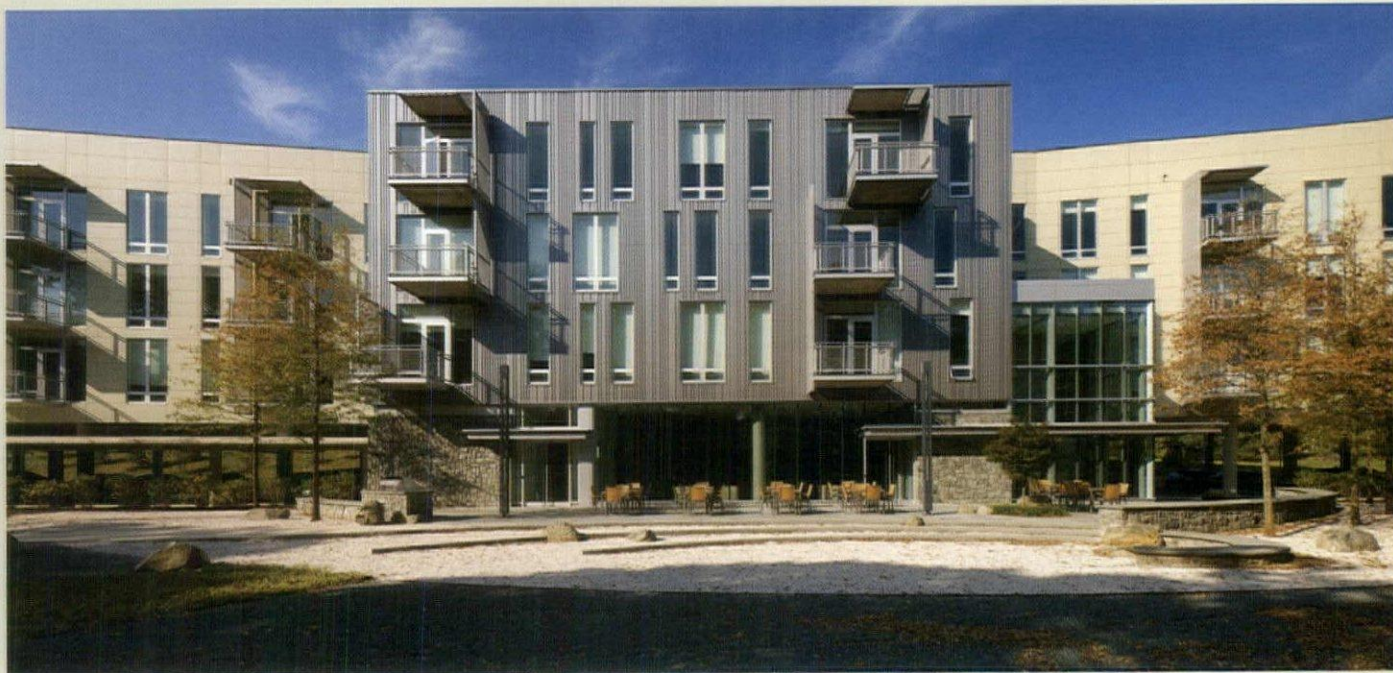
Architect: Hays + Ewing Design Studio, Charlottesville

Landscape Architect: Siteworks

Owner: Dr. Jeffrey Holmes and Roxana Bonnell

Contractor: Peter Johnson Builders

Photographer: Prakash Patel



Jenelia Farm Apartments, Ashburn, Va. WDG Architecture

HONOR AWARD

24

This complex houses visiting research fellows and their families and promotes community in a relaxed non-work environment. The four-story building provides 24 one-bedroom and 36 one-bedroom/den apartments, all with floor-to-ceiling windows. The loft-like layout aligns living spaces along the exterior wall while kitchen, bath, and storage run along the interior corridor wall. Six-by-nine-foot screened balconies offer private outdoor spaces. The facility features playfields and a community room that opens to a large bluestone patio. Referencing residents' work, the random window pattern of the building's rainscreen exterior emulates gene-sequencing strips. The apartments are a short walk from the Viñoly-designed research building half-buried into a bluff overlooking the Potomac. "The design achieves a level of balance between transparency in the common areas, stair tower, and sun exposure with privacy of individual terraces," the jury observed. "The mix of materials worked to create a sense of modernity and connection to the environment, with the stone wall and textured metal walls recalling the farmhouses and wood barns once common in the area."

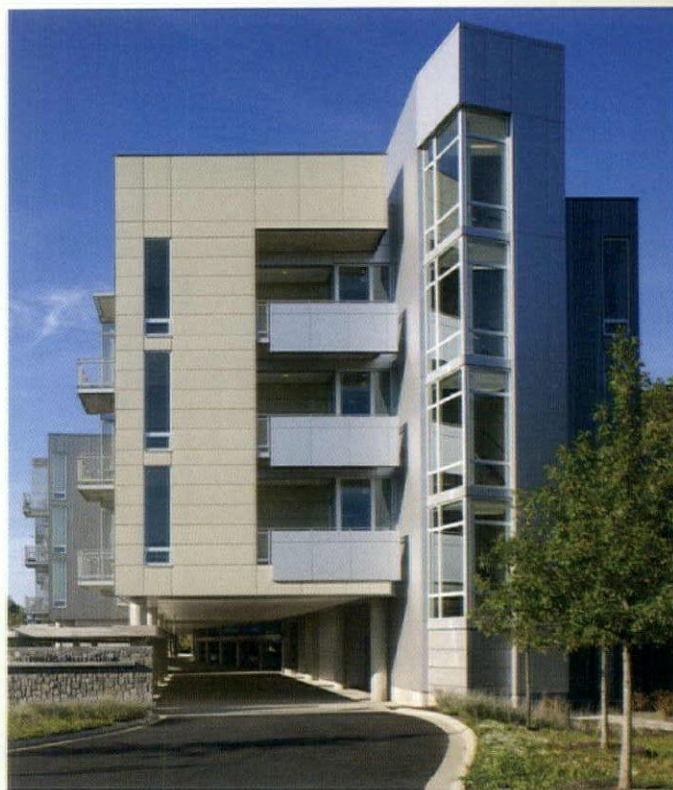
- All walls were pre-fabricated and panelized, which, with the composite concrete/steel floor-joist system improves durability while minimizing waste.
- The building's sustainability features earned it LEED®-Platinum for Homes™ certification.

Architect: WDG Architecture, Washington, D.C.

Owner: Howard Hughes Medical Institute

Contractor: Suffolk Contracting

Photographer: Maxwell MacKenzie Architectural Photographer





Design Army Headquarters, Washington, D.C. Studio Twenty Seven Architecture **HONOR AWARD**

In 2006, Design Army, a well-recognized Washington, D.C., graphic design firm, was growing and needed more space. Having found a dilapidated building—a survivor of the 1968 riots that happened to be in the city's north-of-Massachusetts-Avenue master-plan redevelopment zone—the client asked for a renewed structure; one that would expand from two to three-and-a-half stories for their eight-person firm and for a street-front retail lease space. To operate in accordance with a new zoning overlay, the architects were able to negotiate with the planning commission and zoning board to obtain variances that would allow the mezzanine roof deck and kitchen area the client wanted and create business development in the area, which the city wanted. The luminous new work and meeting space reinforces the perception that this is a graphic design firm that resonates with intelligence, relevance, and professionalism.

- Twenty Seven Architecture derived the Design Army Headquarters interior from the style and professionalism of their D.C. graphic-design-firm client.
- Within a refurbished building and new city master plan, the architect provided both the workplace and additional rental space the client desired.
- This once-burned-out district north of Massachusetts Ave., NW, had lain dormant for almost 40 years before city planners made it a redevelopment zone.

Architect: Studio Twenty Seven Architecture, Washington, D.C.

Owner: Jason and Dujdao M. Lefebure

Contractor: American Property Construction

Photographer: Anice Hoachlander, Hoachlander Davis Architectural Photography, and Eric Johnson Photography





Winkler Family Trust, Alexandria KGD Architecture

HONOR AWARD

26

In Alexandria's waterfront Torpedo Factory built in 1918, renovated as art galleries in the 1970s, and recently again renewed, the Winkler Family Trust was looking for office space that reflects the owner's unique personality and taste while illustrating the organization's core value of transparency and personal management structure. Offices are organized to give views across the Old Town Alexandria Potomac River waterfront at tree-canopy level in a way that preserves the 5,000-square-foot space's warehouse aesthetic while custom metal and glass partitions create modern, functional offices. The reception area is open, and the conference room is enclosed in glass. The owner's motorcycle hangs on the wall for physical presence, and dappled light filters throughout for a connection both to nature and the vibrant community outside.



- Treetops visible through the windows provide a connection to nature and Old Town Alexandria.
- Glass partitions represent the family's commitment to transparency.
- The building's industrial aesthetic, river views, and custom-furnished spaces reflect the client's culture of transparency and unique personality.

Architect: KGD Architecture, Arlington

Owner: Winkler Family Trust

Contractor: Trinity Group Construction

Photographer: Wolfram Photography



Advisory Board Company Crimson, Austin, Tex. SmithGroupJJR, Washington, D.C.

MERIT AWARD

A healthcare and education software provider and consultant with eight locations around the world needed a signature space in Austin for an office that had grown dramatically. In addition to a much larger space, they wanted one designed specifically to meet their needs and that could qualify for LEED®-CI certification. The firm culture is highly collaborative among teams developing particular software products. In a 47,000-square-foot space, the organizing concept is an east-west wood ribbon that extends through the center of each floor with team spaces and various amenities plugging into the north and south. A large family room accommodates all-staff meetings and features a pantry, ping-pong table, gaming areas, lounge seating, and cafe seating. An elliptical retractable curtain in the family room encloses the ping-pong table when closed, but when open reveals glass white boards that are a presentation surface for large meetings. The reception area features local limestone, reclaimed wood, and concrete floors. Orthogonal geometry is softened throughout the space with rounded organic forms.

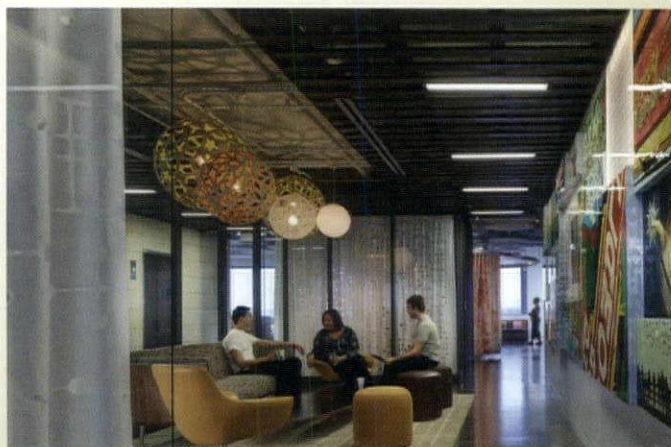
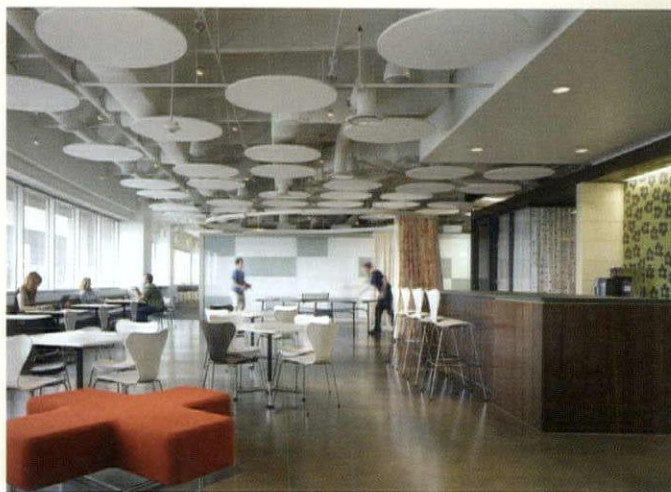
- An intimate lounge space provides a place for employees to decompress and features local art.
- Open and partially enclosed team spaces are in close proximity to work areas allowing for fluid collaboration.
- Glass enclosed interview rooms open up to the activity around with curtains for privacy when needed.

Architect: SmithGroupJJR, Washington, D.C.

Owner: The Advisory Board Company

Contractor: Burt-Watts Industries, Inc.

Photographer: Christopher Barrett





Architectural Office, Washington, D.C.
SmithGroupJJR, Washington, D.C.
MERIT AWARD

28



This firm decided to change from half private offices and half cubicles to all open plan with everybody working at uniformly sized benches—a 40 percent reduction in overall square footage. Nonetheless, the number and type of collaborative spaces increased more than three times over from the previous office. Design work requires a variety of collaborative spaces, from conventional conference areas to huddle rooms and casual touchdown spaces in the studio. Meeting spaces are enclosed by glass on at least two sides to maintain general visual connection. The office also features a living room connected to the reception area and cafe. LEED®-CI Platinum sustainable design elements include a view to the outside from every seat, a quarter of the materials salvaged from the previous office, and a 50 percent power reduction for lighting compared to a similar office. With measurable increases in staff productivity and satisfaction, this office is a showplace for new ways to work and serves as a laboratory for staff and clients to witness successful workplace design in action.

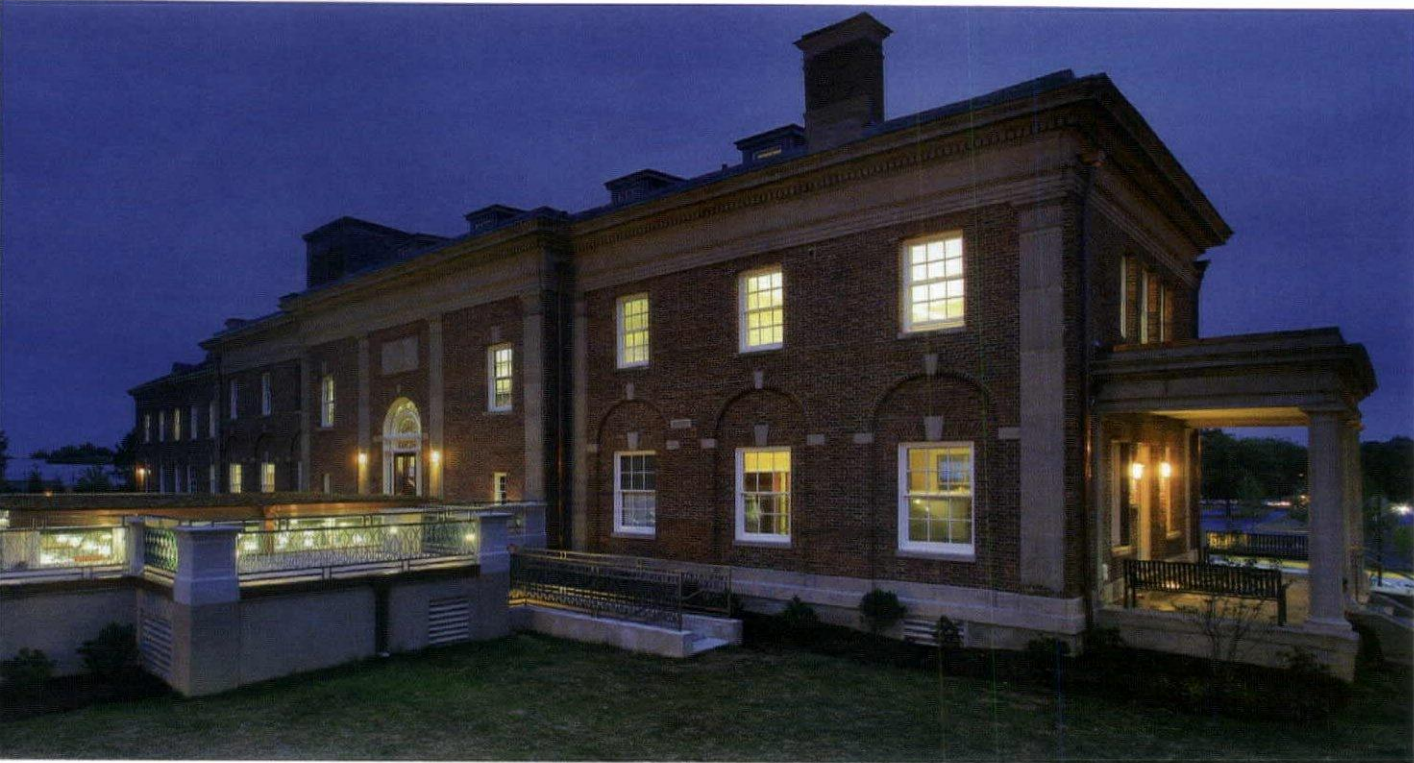
- The living room includes reconfigurable furniture, and custom felt tiles moderate sound.
- New materials are displayed on shelves for everyone to see, with an island for working and client presentations.
- The studio has bench-style workstations with circulation and informal meeting spaces at the perimeter.

Architect: SmithGroupJJR, Washington, D.C.

Owner: SmithGroupJJR, Washington, D.C.

Contractor: Hitt Contracting

Photographer: Eric Laignel



McCormick-Goodhart Mansion, Langley Park, Md.

Bucher/Borges Group

HONOR AWARD

This restoration of a former estate turned a badly damaged historic property into a thriving multicultural center for an organization that benefits under-privileged families. The original three-story, 19,000-square-foot mansion, designed by George Oakley Totten and built in 1924, has a Georgian Revival exterior and Tudor interior. The new work includes restoration of both the exterior and historic interior spaces and adaptation of the mansion into offices, education and administrative spaces, and conference rooms. A rear addition provided a large, partially underground meeting room that accommodates client requirements without drastically altering the interior layout and destroying key spaces in the original house. "This restoration/addition held true to the building's original character, consistent with the Secretary of the Interior's Standards for Historic Properties," the jury commended. "With extensive use of proper restoration technology, this is an exemplary cultural reuse of a vacant historic building."

- The architect helped the owner obtain federal, state, and county historic tax credits.
- Restoration technologies included computer-aided milling and polyurethane molds to replicate damaged details quickly and accurately.
- The reuse of the building and site, geothermal heat pumps, living roofs, and water- and energy-saving systems helped the team obtain USGBC LEED® Gold.

Architect: Bucher/Borges Group PLLC, Fairfax

Owner: CASA de Maryland

Contractor: Hamel Commercial, Inc.

Photographer: Ward Bucher, AIA





Garrett Hall, Charlottesville
Architectural Resources Group | Frazier Associates
MERIT AWARD

30

Designed by Stanford White in 1908, this building, at the south end of Jefferson's Academical Village, was originally a large dining hall. A 1959 conversion, primarily to administrative use, drastically altered the original two-story lobby and oak-paneled Great Room. In 2007, the university chose to restore Garrett Hall to house the Frank Batten School of Leadership and Public Policy. In addition to historic rehabilitation of the building was a subterranean annex to provide new office, classroom, and lecture space. The project had a dual commitment to green building and historic preservation. The scope of work also addressed longstanding structural issues in the main building, necessary repairs, preservation of historic features, systems improvements, and code and ADA compliance. Included were exterior repairs, restoration of primary historic interior spaces, and the reconfiguration of interior spaces. "The design team was particularly sensitive in its reuse of historic finishes," noted the jury. "The attention to both restoration and sustainability is commendable. Adding skylights to the annex really animates the subterranean spaces. And it is certified LEED® Gold."



- Digital photogrammetry aided in documenting unique interior and exterior features.
- The Great Room, lobby and stair, and upper conference room were the focus of restoration efforts and provided a reference for rehabilitation throughout.
- The project was consistent with the University's Master Plan of reusing historic buildings.

Architects: Architectural Resources Group, San Francisco, and Frazier Associates, Staunton

Owner: University of Virginia

Contractor: The Christman Company

Photographers: Beaurline Photography, Frazier Associates



Robert H. Smith Center at Montalto, Charlottesville

Architect: Glavé & Holmes Architecture

MERIT AWARD

Overlooking Monticello, the Repose House, thought to be designed by Charles Barton Keene, was built circa 1903. Purchased as a facility for visiting dignitaries, meetings, and teleconferences, this renewed edifice serves as the upper campus for the Thomas Jefferson Foundation. Although the home was not listed as a historic property, the Foundation requested a respectful preservation-minded approach. Among key features of the rehabilitation are reconstruction of doors, shutters, and roofing to restore the front façade. Additions to the side and rear are in areas that had been previously modified. The work restored the parlor, dining room, and foyer, with most original features intact. The house also had much of its original millwork, plaster walls, and heart-pine flooring. One significant addition that required considerable design finesse was the expansion of the conservatory. "The integration of new site work and landscaping to serve new public functions was distinctive and sensitive," the jury declared. "The facility retains its character and charm and earned LEED® Silver."

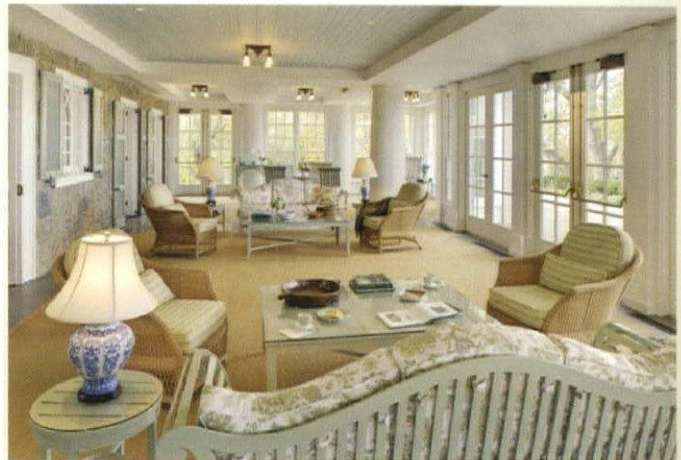
- The design team relied extensively on a wonderful cache of photographs taken around 1914 of the house and its interior and adjacent out-buildings.
- Modern adaptations included accessibility, an elevator, life safety systems, and expanded restrooms.
- Two original furniture elements returned to the main entrance hall were a tall-case clock and an ornately carved presentation chair.

Architect: Glavé & Holmes Architecture, PC, Richmond

Owner: Thomas Jefferson Foundation

Contractor: Martin Horn, Inc.

Photographers: Virginia Hamrick Photography, Ansel Olson Design





Test of Time Award for Oberndorf Central Library

The Meyera E. Oberndorf Central Library in Virginia Beach, designed by The Design Collaborative, received the 2012 VSAIA Test of Time Award, which recognizes a structure no less than 25 years old that is cherished as a significant contribution to the community and the built environment. The award was presented at the Visions for Architecture gala on Friday, Nov. 9, 2012, at the Hotel John Marshall.

Opened as the Virginia Beach Public Library in 1987 and renamed in 2008 in honor of Virginia Beach's longest-serving mayor, this building, designed in 1983 and '84, was far ahead of its time in its use of energy modeling, form-defining daylight "scoops," computer hardware accommodation, and reconfiguration flexibility that foresaw the redefinition of public-library use.

Designed by the late Laszlo Aranyi, a founder of The Design Collaborative, the Oberndorf Central Library plan is elongated on the east-west axis to allow for the collection of natural daylight through south-facing windows, while suspended acoustical baffles inside distribute the natural light to eliminate glare and excessive contrast. Roof overhangs shade the

windows from the summertime's high-angle sun while allowing the winter sun's rays into the building. Other heat-gain mitigation comes from the building's reflective white roof and green-tinted glass that admits visible light while blocking radiant wavelengths. Super-insulation and no east- or west-facing windows further reduce the interior conditioning load.

The design team included Richard Fitts, AIA, project architect, and W. Ray Jennings, interior design, who also orchestrated the library's 2005 renovation.

The Design Collaborative team used the most cutting-edge energy modeling software available at the time, which confirmed that the major energy loads would be lighting and air conditioning. The passive systems helped reduce that load by 40 percent over a comparable building of the time, and the construction bids came in at 6 percent below budget. Among the active systems are light dimmers that react to the natural light level.

The two-story, 95,000-sf library accommodates three distinct functions, which are expressed by the building form. In addition to the 65,000-sf public library space, the building features an 11,000-sf multi-function meeting-room complex that



Openness and flexibility make it possible for the Design Collaborative's Oberndorf Central Library in Virginia Beach to function as elegantly now as it did when it first opened in 1987. The design firm oversaw an interiors update in 2005.



33

includes a 250-seat auditorium and is accessible independently from the library. A two-story, 19,000-sf wing at the rear of the complex houses Virginia Beach library administration offices. Public service areas are located on the ground floor and mezzanine. Open planning allows maximum flexibility in arranging furniture and equipment, makes library services more visible and accessible, and allows full-service operations with a smaller staff.

Even the materials that went into the building are now recognized as sustainable because of their durability and economy, including brick, stainless steel, glass, and pre-finished aluminum. Wide aisles and display shelving anticipated the rethinking of public-library book presentation. The building is fully compliant with the current ANSI Accessibility Standards and adhered to the accessibility recommendations of its day, which preceded the Americans with Disabilities Act.

In addition to its many forward-thinking accommodations, the library was designed to be highly adaptable. Under-floor raceways provide for power and data connectivity to within 30 inches of any location, allowing the library to accommodate demand for Internet access—a demand that wouldn't develop

until years after the building's opening. With the wider aisles, self-lit shelves, and modular furnishings (rather than traditional library furniture), spaces are easily reconfigured to adapt to changing needs without the need for major reconfiguration of lighting fixtures, mechanical equipment, or wiring.

Following more than 15 years of heavy use, the library received minor interior renovations in 2005, also by The Design Collaborative, which included replacement of finishes, systems updating, furniture replacement, and some spatial reconfiguration. The design team phased the work so that the library remained open through most of the construction.

From the outset, the library has been one of the region's most popular destinations. A local paper called the library the "best new building, hands-down" when it opened. In addition to the Test of Time Award, the library received the VSAIA Energy Design Award in 1987 and, in 1988, both Portfolio Magazine's Best New Building Award and the Virginia Beach Arts and Humanities Commission Award of Honor for Architecture. The Meyer E. Oberndorf Central Library continues to serve its original intent as a state-of-the-art facility.



Combs Dreiling
(right) with 2012
VSAIA President
Lori Garrett, AIA.

Helene Combs Dreiling, FAIA Awarded The 2012 William C. Noland Medal

She has dedicated decades of service and leadership to the AIA at all levels and in nearly every capacity, culminating in her recent election as First Vice President/President-Elect of the national AIA. The road to this position features a series of notable milestones, including her election as the first female president of AIA Blue Ridge and the first female Director of the Region of the Virginias. She was the first woman from AIA Blue Ridge and youngest member in Virginia to be elevated to the College of Fellows.

Throughout her service, Dreiling became one of the AIA's most ardent and respected voices in support of emerging professionals and the benefits of lifelong learning. Her work on a host of key task forces and committees not only helped streamline the AIA's Continuing Education System, but also helped lead a shift towards a more seamless transition in education, training, and practice, by redefining the term "intern" and un-bundling the Architectural Registration Examination.

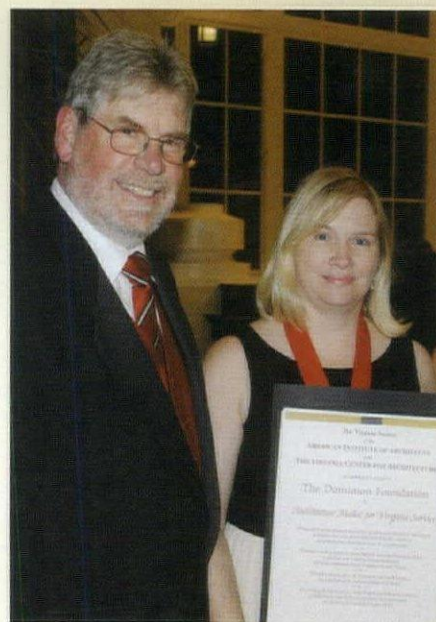
Her ongoing commitment to educating the broader public about the value of architects and good design began early in her career with her work at the Colonial Williamsburg Foundation. Later, she was singularly responsible for curating Virginia Women in Architecture, a highly acclaimed exhibition spotlighting the work of Virginia's female architects. This passion for educational outreach continued as she managed the Institute's AIA150 celebration and oversaw the creation of the nationally recognized America's Favorite Architecture exhibition and Web site. In her most recent position as the executive director of the Virginia Center for Architecture, she has helped shepherd the Center to a position of financial and programmatic strength. "All members of the profession in Virginia will benefit as the public develops a greater understanding of the power of architecture," says VCA Trustee Ellen S. Cathey, AIA.

"Helene superbly exemplifies those personal qualities and life-altering achievements for which the Society's William C. Noland Medal is designed to recognize and celebrate," said Paul H. Barkley, FAIA. In making this award, the Society recognizes a career-long dedication to her fellow architects and the profession of architecture.

Architecture Medal Goes to the Dominion Foundation

The Dominion Foundation's philanthropic support for organizations working to advance the ideals of livable communities and environmental conservation has impacted thousands of individuals across Virginia. Contributing more than \$20 million annually to nonprofit organizations and schools, the Foundation supports a wide range of human service, environmental, educational, and cultural organizations. Their support for the Learning Barge has educated thousands of Virginia residents about the importance of environmental stewardship. Similarly, their support for programs like Energy Share, the United Way, the Red Cross, the Salvation Army, Project Plant It!, the Nature Conservancy, the Artificial Reef Program, and many more has helped build stronger communities throughout the mid-Atlantic region.

In addition, the award recognizes the Foundation's generous gift to the Virginia Center for Architecture, which was instrumental in securing the Center's continued ability to pursue its educational mission. Their substantial gift, contributed over the past five years, has been used by the Center to advance the understanding of architecture through a variety of educational programs and exhibitions. It also made possible much-needed preservation of the Center's historic Richmond home at 2501 Monument Avenue designed by John Russell Pope's firm. For their abiding commitment to creating livable communities and their support of architectural education and stewardship, the Virginia Society AIA and the Virginia Center for Architecture award the Architecture Medal for Virginia Service to The Dominion Foundation.



2012 VCA President Alan L. Storm, AIA, and,
representing the Dominion Foundation,
Lisa Moerner.

Frickie and Wright Awarded for Distinguished Achievement

Brian J. Frickie, AIA, principal and vice president at Kerns Group Architects, has been described as a dynamic and visionary leader who has worked tirelessly to seek out and mentor future leaders of the profession. For more than 30 years he has worked at the local, state, and national levels of the Institute to "make better architects." During his tenure as VSAIA president, he helped guide and give shape to several important initiatives, including the Practice Academy Summit and the Prize for Design Research and Scholarship. His pioneering efforts led to the establishment of the Society's highly esteemed and award-winning Emerging Leaders in Architecture program. "Brian's contributions to the Society have been numerous and important," said fellow steering-committee member M. Kirk Train, FAIA, "but none has compared to his unflagging devotion, [and] his time and intellect given to the Emerging Leaders in Architecture. Brian's dedication to the program has essentially been its lifeline." For his committed volunteer service to the profession and the Institute, as well as his unflagging efforts to support emerging professionals, the Society presents Frickie the Award for Distinguished Achievement.

During her nearly 30 years with Hanbury, Evans, Wright, Vlattas + Company—the past 10 spent as CEO, President, and Chairman of the Board—**Jane Cady Wright, FAIA**, has been recognized with more than 35 design awards. During her tenure she has also been commended for her commitment to sustainability, for her volunteer service, and, perhaps most notably, for her exemplary achievement in advancing the art and science of design for higher education. Her work has directly impacted the lives of nearly half a million students at more than 130 universities in the U.S. and abroad. By making design research a critical component of ongoing study and reflection in the design process for herself and her firm, Wright has helped create and lead an international dialogue regarding education communities.

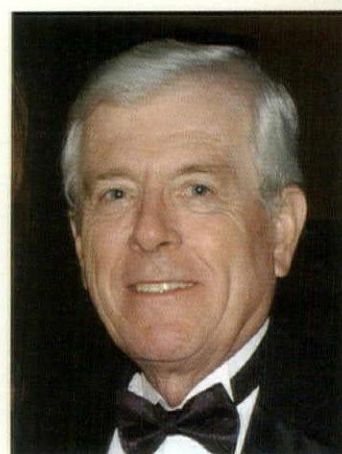
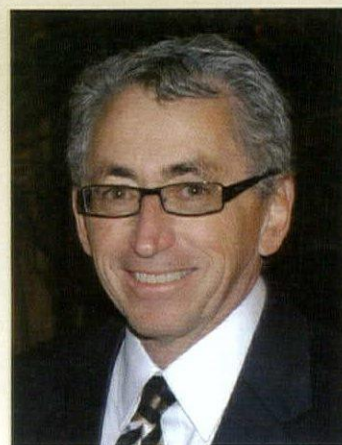


Society Honors Awards for Aurand, Proto, and Skunda

C. Douglas Aurand, ASLA, a principal with Norfolk-based Siska Aurand Landscape Architects, Inc., has practiced landscape architecture and aquatic design throughout the United States for more than 30 years. In the early 1980s, while an assistant professor of landscape architecture at Oklahoma State University, he compiled research and wrote the internationally recognized textbook *Fountains and Pools, Construction Guidelines and Specifications*. This all-encompassing resource for designing and building water features and pools has been used extensively in universities in both the U.S. and abroad. He makes it a point that his work—which can be found at private homes, city centers, parks, universities, and museums—is long-lasting and easy to maintain as well as aesthetically pleasing. As a consultant, his expertise in aquatic design has helped countless colleagues realize their vision. In presenting this honor the Virginia Society AIA recognizes his far-reaching work as an educator, innovative design work, and expertise as a consultant.

Paul N. Proto served the Commonwealth of Virginia from the mid-1970s until his retirement in 2011. In addition to his more than 20 years of service as the director of General Services of Henrico County, he was instrumental in helping to shape influential policy and legislation impacting designers throughout the state. During his time on several key committees and boards, he helped draft various procurement policies establishing qualifications-based selection and served on the study commission that resulted in the adoption of the Virginia Public Procurement Act. He also helped guide the way public design-build contracts were implemented and served on the State Appeals Board helping to resolve bidding issues. In presenting his honor, the VSAIA salutes his decades of public service helping to create a quality built environment.

After an impressive career with the firm Dewberry Davis, **Robert Skunda** distinguished himself as an advocate for business and a strong proponent for economic development in the commonwealth. He served as chair of two of the largest business organizations in the state, was Secretary of Commerce and Trade under Governor George Allen, and has been Virginia Biotechnology Park President and CEO since 1997. During his time as Secretary of Commerce, he served on numerous boards and commissions focused on improving business conditions, increasing competitiveness, and easing the challenges facing private-sector businesses in Virginia. In conveying this honor, the Society especially recognizes his vigorous support of economic development and his role in helping to create favorable business conditions in Virginia.



Payne Receives Honorary Membership

For more than eight years, **Kenna R. Payne, CPA**, has provided distinguished service as the chief financial officer for both the Virginia Society AIA and the Virginia Center for Architecture Foundation. This honor, in particular, celebrates the critical role she played in managing the process that garnered nearly \$1 million of historic rehabilitation tax credits for the Virginia Center for Architecture. It also acknowledges her key administrative role in handling human resources functions for both the Society and the Center. Her work developing protocols for the safe enjoyment of the Center's historic home, and managing the Society's AIA Contract Documents and Code Book programs — and countless other functions — were also noted. In bestowing this honor, the Society recognizes her unflagging dedication to serving the architects of Virginia.



**Your Ticket
to Continuing
Education
Opportunities in
Virginia**

All Aboard!

January 25:

**Significant Changes to the
International Building Code 2012**

*Virginia Tech Hampton Roads
Center, Virginia Beach*

February 6:

Beer + Design: Get Outta Here!

*Storefront for Community Design,
Richmond*

February 20:

**Significant Changes to the
International Building Code 2012**

Dewberry, Fairfax

March 13:

Historic Resources Tour

*Historic Salubria
Stevensburg, VA*

March 14:

**Significant Changes to the
International Building Code 2012**

*Piedmont Virginia Community
College, Charlottesville*

April 25:

Green Roof Basics

*Virginia Center for Architecture,
Richmond*

**For more information, visit
AIAVA.org for the Calendar on
the right side of the screen.**

**Alternatively, call
804-644-3041 or send an email
inquiry to info@aiava.org.**

Virginia Society **AIA**

inform

**Article Reprints
Article PDFs
Extra Magazine Copies**

**Contact: Cathy Guske
804-644-3041, ext. 301
cguske@aiava.org**

Area Firms Design Office Buildings of the Future

The Commercial Real Estate Development Association (NAIOP) of Herndon, Va., recently recognized the designs of two area firms—one in D.C. and one in Virginia—in a national competition to design the office building of the future. Hickok Cole Architects and KGD Architecture each designed office towers for sites in Tysons Corner. Hickok Cole received an NAIOP award and KGD received honorable mention.



controls, solid-state components, and LED lighting. An AC floor grid handles all incidental plug loads.

Building ventilation is based on wind pressure, gravity downdrafts, buoyancy from internal heat and solar gain, and the Venturi effect. A green roof collects, treats, and stores rainfall for irrigation. Gray water charges the toilets. Recycled water also supplies decorative water features.

The envelope combines a weather-tight layer and a shading layer. Surfaces are covered with smart polymers and electro-mechanical actuators that change size and shape in response to the sun. The heat-sensitive composite materials automatically adjust as the sun passes over them to provide shade and reduce glare while maintaining views.

The Hickok Cole Future Vision

“What will shape the office of the future? We identified three categories: human need, performance, and construction materials,” says Michael Cole, AIA. “Office workers are happier and more productive if they have a simple view of the outside; if they can see the sun, the shadow of the clouds, the rain, and the landscape. Wouldn’t it make more sense to generate as much energy on-site as possible, through wind, solar, geothermal, fuel cell, and even on-site nuclear plants? In the future, construction will be more modular in nature with large portions being fabricated in factories under controlled conditions.”

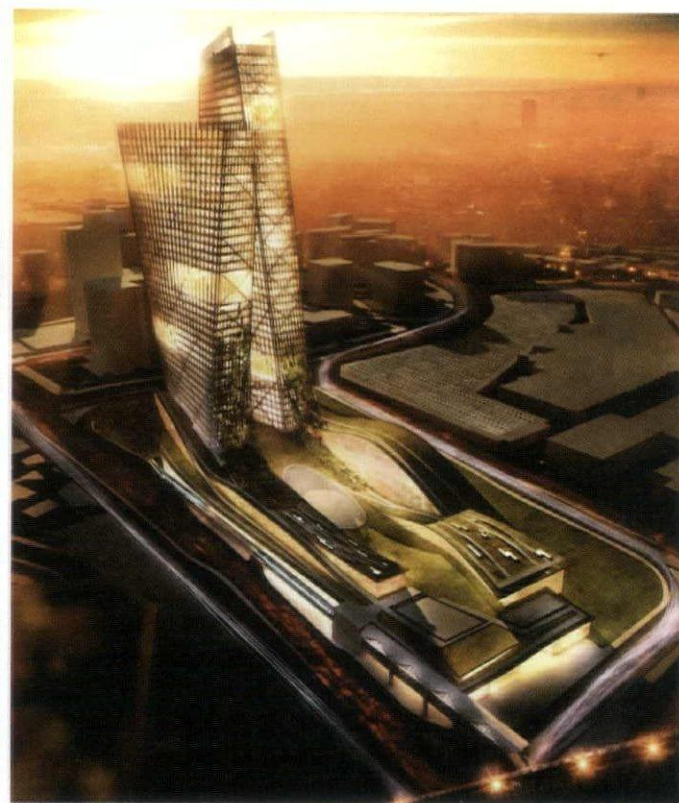
Rather than a layout of individual offices and work stations, the Hickok Cole team decided to organize space by function. As a way to accommodate the more open plan, they devised a structural system based on 63x10-foot prefabricated modular planks that span the width of the column-free floor area. Perforated, trough-shaped beams allow pipes and wires to run between the webs, raising the ceiling. And



a combination of smaller, decentralized units with sensitive control systems provides more efficient heating and cooling.

Photovoltaic panels on the roof and PV film-coated shading modules harvest solar energy. Vertical-axis helix wind turbines on the roof operate regardless of wind direction. A co-generation plant is fueled by hydrogen, natural gas, biogas, or methanol. Geothermal exchangers heat and cool the building. And the designers look forward to modular, scalable nuclear energy from yet-to-be-developed mini-reactors. A DC grid powers HVAC

The outer envelope layer (top left) provides both shading and a distinguishing aesthetic. The unobstructed interior layout (above) is based on office functions.



KGD Sees Competitions as Team Builders

Design charrettes for competitions inspire the creative thinking that attracts clients, says KGD Principal Manoj Dalaya. The work also energizes people, and the firm tries to be involved in a non-billable design competition each quarters, he says.

"We don't pick teams. We just tell people we are going to meet at a certain time, provide lunch, and whoever wants to shows up," he says of the process. "We have a free, very active discussion, people pin drawings up on the wall, and out of that comes some great ideas, which build and evolve over time. This creates transparency. Everyone knows that if you have an idea, it is heard and can become part of the whole process."

For a recent competition for a housing concept for Melbourne, the program included an addition to a landmark railway station. The discussion came down to devising a financing strategy to make the project economically feasible. "We ended up creating a pencil tower with extensive, beautiful views from the tallest structure in Melbourne. So the process itself became design," Dalaya recalls.

Straight out of college, working with principals

"I jumped on the Office Building of the Future Competition project pretty much when I started working here," recalls Sam Robinson, who ended up co-leading the team. "This was my first job out of college, so I fully embraced the opportunity."

"It was exciting; a blend of real-world projects and this more theoretical, creatively engaging work. The person who originally brought me on handed the competition project to me and another person here as the de facto competition leaders. We spent time during office hours and on the weekends working on it, which included working with the principals and getting their input. We also consulted with people from other offices, for instance Arup for engineering. That kind of experience is very helpful."

"I was also able to bring ideas from the work we did at Virginia Tech. My studio professor my third year was Joe Wheeler, and I worked on some of the concepts for the house the school submitted to the Solar Decathlon. One of the studies I was involved with had to do with the Lumenhaus envelope, and I got to incorporate some of that same thinking into the geometry of the screen we used in the Office Building of the Future. As far as cross-pollination, I found it very helpful to work on the office competition, ask questions, and provide input, which really ignites the creative spark."

More lessons from Melbourne

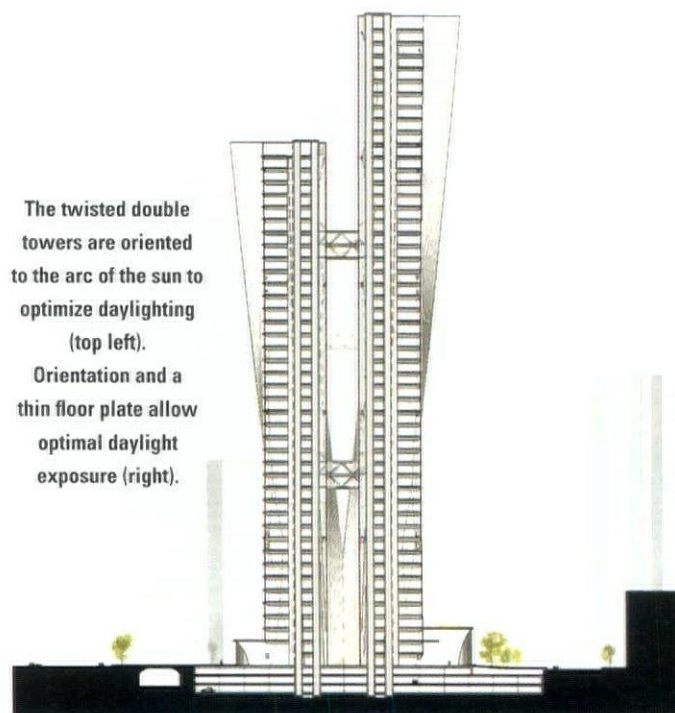
Chad Smith worked on the KGD submission to the Melbourne competition and had this to say about connecting to a 100-year-old Victorian central train station.

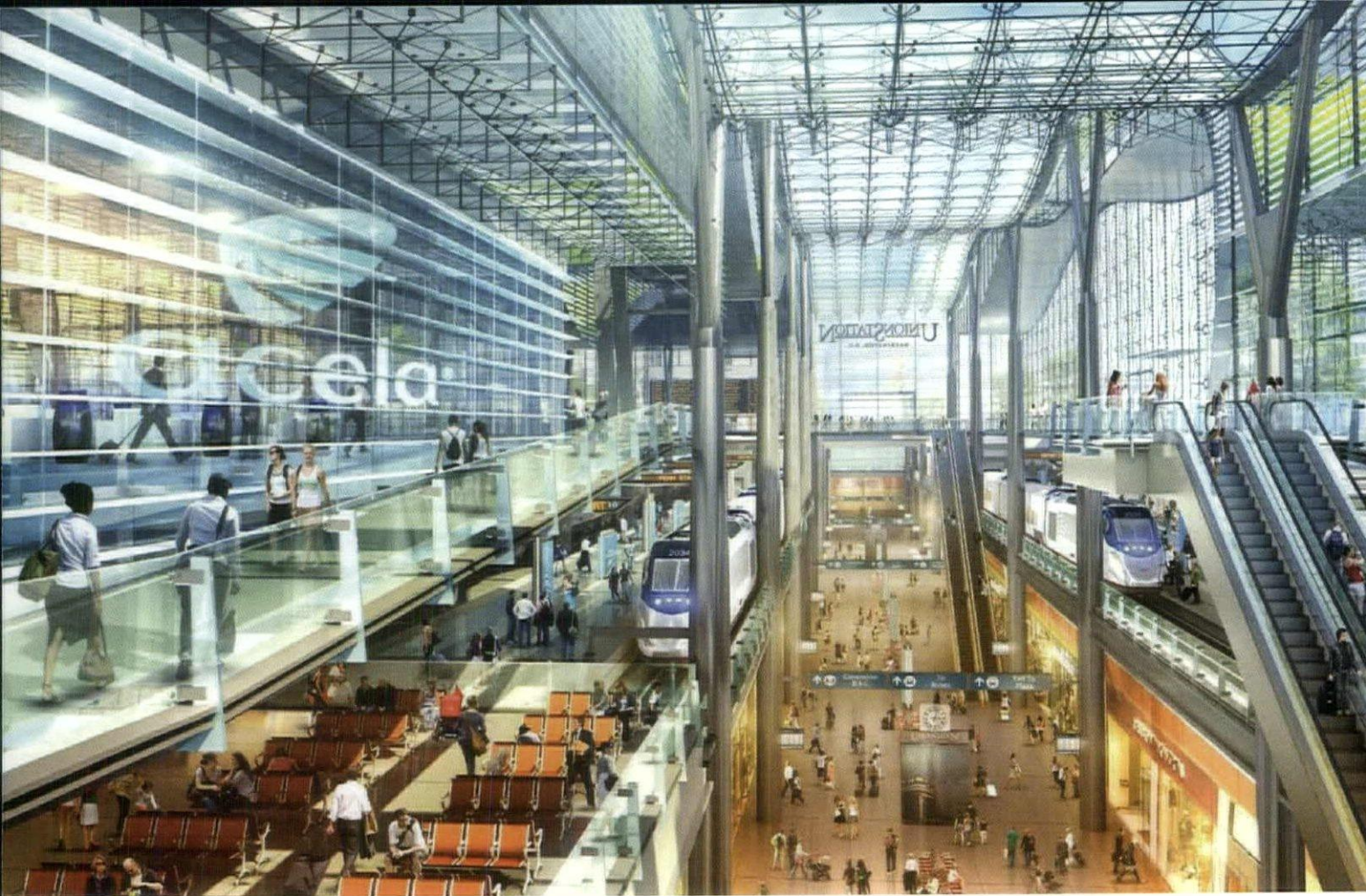
"First, you're working with a building that is already an icon to the city. That poses interesting questions about how one juxtaposes such a thing—what stance you take in creating a new building next to a piece of heritage."

"It was an interesting experience for me being a team leader, and I hope to do it again. In past competitions I have worked on here—three before this one—somebody else was taking on the main leadership role. One of the things you learn through these experiences is collaboration."

"Another thing that I appreciate about this firm is that the partners are willing to foster individual efforts and interests. If you want to develop something yourself, you can find support for it. People here are open to anybody becoming involved in the competitions, and I appreciate the level of responsibility you can take on within the firm as well as the level of openness here."

"The most powerful thing about the competitions is that they open up a general dialogue. Every day one person goes to another person's desk to talk about projects and, before you know it, there are five people around the desk discussing an issue that can then translate to other projects. The great thing about competitions is that they always give you new ideas of how you can take a design concept one step further. That, in turn, establishes an ongoing methodology for pushing thoughts forward."





Amtrak Is on the Move

With the inauguration in December 2012 of the first passenger line from Hampton Roads in decades, Amtrak opened rail travel from the Tidewater through Petersburg and Richmond to D.C. One can choose to ride the same train all the way from Norfolk to Boston. But this article will focus primarily on other events soon to transpire with Washington's Union Station.

Long a landmark close to the Capitol, John Burnham's Union Station was the result of both a national tragedy and a total rethinking of monumental Washington, D.C. In 1881 President James Garfield was shot at a train depot then set among a tangle of railroad tracks on what is now the National Mall. A short time later, Congress brought together a planning commission, chaired by Senator James McMillan of Michigan, that included the likes of Daniel Burnham, Charles F. McKim, and Frederick Law Olmsted Jr. to create the vista west of the Capitol as we know it today. In that plan, the new train station moved to the north where it

now serves as a hub for Amtrak, MARC, VRE Express, the Metro subway, buses, taxis, pedestrians, and bicyclists.

Serving as the location of Amtrak's headquarters, the station is also the second-busiest in the Amtrak system, hosting 100,000 passenger trips per day, including those on its Acela Express and Northeast Corridor routes. Currently the station is stretched to capacity with its 8,000 rail passengers during weekday peak hours.

Amtrak's master plan for the station, published in July 2012 and prepared by Parsons Brinckerhoff and HOK, shows that the station is now operating beyond its capacity, though, and is ready for expansion. Although the initiative to go forward with the plans have been on hold since this past summer and no RFQ has been released as of the press date, the published master plan reveals a comprehensive vision for the future—among the Union Station Redevelopment Corporation (USRC), U.S. Department of Transportation, Maryland Transit Administration, Virginia Department

The Central Concourse (above) will feature waiting areas, reconstructed track and platforms, a first-class lounge, and retail.
The Greenway from First Street (below).



of Rail and Public Transportation, and Washington Metropolitan Area Transit Authority—that will enhance accessibility, reduce passenger and traffic bottlenecks, and reaffirm the station's place in one of the more vibrant re-emerging locations in the nation's capital.

Two years in the making, the master plan foretells the renaissance of rail transportation in the U.S. "USRC will be working with Amtrak, Union Station Developers, and the other partners in Union Station to ensure that this historic station will continue to thrive as a world-class inter-modal transportation facility equal to its original mission and architectural grandeur in 1908," says recently instated URSC President and CEO Beverley K. Swaim-Staley.

To increase the station's role as a regional multi-modal transportation center, the new vision seeks to triple the passenger capacity, double the train service, improve efficient movement across all modes of transportation, and support the economic growth as well as support the many cultural, political, and business opportunities the area offers. And all of this will happen within the existing station footprint to preserve the iconic presence of Union Station and its place within the evolving Washington city plan.



A conceptual rendering of the new train shed with its green roof.

A three-phase concept

The heart of the plan is the creation of a new, naturally lighted and welcoming train shed, which will serve as the vertical connection to the commercial development above and horizontal connection between the station and its neighborhood. A green roof for the train shed would retain storm water and moderate heat gain and loss. Two north-south concourses are meant to serve as the backbone of the circulation system, with a central concourse linking to the historic station and western concourse leading to Metro and the business district on that side of the station.

Phase one, tentatively scheduled for 2013 to 2017 will include improvements to the existing Concourse A, add two new tracks and platforms, and relocate the crew base. Passenger space along Concourse A will be widened, opened vertically, and fitted with a spacious glazed roof. New concourses B and C will be one level below the tracks and platforms located—respectively—at the center and north ends of the platforms. They will be primarily for commuter use. An east-west pedestrian connection beneath H Street provides more retail space and weaves the station circulation into the fabric of the city.

Phase two (2018-2022) focuses on the station's east side track and platform reconstruction and features new below-grade parking, replacement tracks and platform with two additional tracks, and new passenger concourses.

Phase three (2023-2028) of the master plan calls for renovation of the west side of the rail yard, stub-end track and platform improvements, and construction of a centerpiece train shed.

Phase four looks beyond 2028 to providing future capacity on a lower level with new Amtrak lower-level concourses and projected expansion of high-speed rail service to Virginia and beyond.

Because the station cannot expand upwards or laterally, new facility construction will be inserted from the top down, with tracks and platforms built first. The initial foundations and support structure will create the opportunity for three million square feet of profitable air rights development above and six million square feet of station development below.

Planners project a cost for the reconstruction and expansion project of \$6.5 to \$7.5 billion in 2012 dollars for phase one, two, and three. The projected return to the area's economy is \$13.5 to \$15 billion over that 15- to 20-year period with an additional increase of \$1.85 billion in commerce from arriving passengers.



Looking down H Street from the east with the Union Station complex to the left.

(lower left and right) Images courtesy of Akridge/SBA

Child Obesity Prevention Through Design



42

Cafeteria graphics reinforce the message that healthy food is good to eat.

VMDO Architects developed the point-based Healthy Eating Design Guidelines for School Architecture for their redesign of the Buckingham County Elementary School. In ways that make the school more conducive to healthy eating and food preparation, the design guidelines address commercial and teaching kitchen spaces, serving and dining areas, aesthetics, signage, water and vending-machine access, on-site food production, and integrated healthy-food education and community connection.

Because they received the 2012 VSAIA Prize for Design Research and Scholarship for their work, VMDO firm members Robert Moje, AIA, and Dina Sorensen presented the guidelines—which have point-awarding parallels to the USGBC® LEED rating system—at a November 8 session of the Architectural Exchange East, held in Richmond. Presenting concurrently at the session was Dr. Matthew Trowbridge of the University of Virginia School of Medicine, who was involved in the development of the guidelines as part of his public-health work with the National Collaborative on Childhood Obesity Research. (Details of that organization's resources and ongoing programs are available at nccor.org).

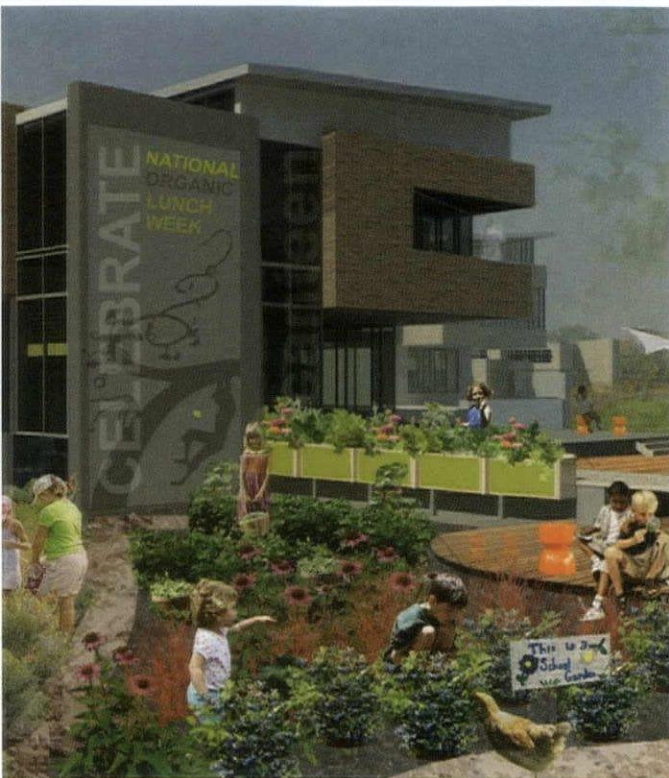
The awarded research project

The 2012 VSAIA Research Prize, sponsored by MTEA Architecture, recognizes the importance of theory and applied

research in creating discourse between practitioners and academicians. The 2012 jury comprised Brian Lee, FAIA; Phil Enquist, FAIA; and William Baker, PE, all of Skidmore, Owings & Merrill. The jury unanimously selected “The Role of School Architecture in the Prevention of Childhood Obesity.”

“Initially, the study title seemed naive in linking architecture to the daunting societal problem of childhood obesity,” the jury commented. “However, the research presented a measured and well-documented series of facts and arguments corroborated by well-respected writers and thinkers. It contained insight into current education designs for the school physical environment that unwittingly reinforce unhealthy cultural habits and preferences. The project then focused on specific design measures, large and small, to change the perceptions of and obstacles to healthy eating and cooking.

“The jury was impressed that a series of discrete, often incremental moves and ideas could potentially shift behavioral patterns and make a difference in our schools regarding children’s life choices. So often our design profession has taken a narrow rather than holistic view of how buildings are experienced. Here, we are shown how food processed, presented, and integrated into the learning environment can make a daily difference to the child. In our discussion, it was this relevance and societal impact that led us to select it as the winner of the 2012 Prize.”



The guidelines strive to provide children with learning food-scapes.

How it works

Five principles form the core of the obesity-prevention guidelines:

- Provide equipment and spaces that facilitate the incorporation of fresh and healthy food choices into the school and its community.
- Provide facilities to engage the school community directly in food production and preparation.
- Apply evidence- and theory-based behavioral-science principles to nudge the school community toward healthy-eating behaviors and attitudes.
- Use building and landscape features to promote awareness of healthy and sustainable food practices.
- Conceive and articulate school spaces as community assets to multiply the benefit of school-based healthy food initiatives.

In spatial design these principles can be linked. For instance, the co-location of the teaching and commercial kitchens, having adjacent school gardens, and facilitating educational outreach to the community expose students and their parents to ideas that reinforce the importance of thoughtful food selection, preparation, and eating habits. Students also see rain-water harvesting and composting as important elements of successful gardening. They acquire a taste for freshly filtered water. And the continuity of indoor and outdoor areas brings the benefit of abundant light and physical activity.

During the programming phase, the submitters turn to the *Problem Seeking* writings of William Peña and Steven

Parshall, whose five key purpose-defining activities—informed by interaction with the client and the characteristics of the project—encompass establishing goals, collecting and analyzing facts, uncovering and testing concepts, determining needs, and stating the problem. It was during facility programming that the VMDO design team introduced their Healthy Eating Design Guidelines.

During schematic design, the team considered the school's role in a healthier community at a macro level, and the guidelines played a major factor in the subsequent sizing, adjacencies, and sequencing of spaces. At the micro-scale level, the guidelines also influenced the overall layout of cooking, eating, and service areas within the cafeteria arrangement. In design development the team focused their attention on the floor and furniture plans in main areas and layout of the serving lines.

During the construction documentation phase, attention turned to construction efficiency, cost, and code requirements with a strong eye toward adhering to the parameters of the initial programmatic decisions. With the Buckingham project, for instance, final specification of lighting adhered to the desire for appealing lighting and finish colors in the cafeteria, which are intended to reinforce students' subconscious perception of a healthy food environment. With those design decisions set, the architects devoted their attention to construction contract administration.

"The Healthy Eating Design Guidelines for School Architecture is an innovation in both architecture and public health," noted the VMDO team in their VSAIA Research Prize submission. "This work represents a rare collaboration between architects and public health scientists to find new solutions for improving the school environment for children's health."

Referencing the New York City Active Design Guidelines, the submission emphasizes that recent trends will spur additional new research to document the impact of design features intended to promote health, concluding: "Such undertaking promises to lead to the convergence of evidence-based architecture and evidence-based public health, providing new strategies as part of a comprehensive approach to address childhood obesity."

43



The dining terrace and school garden make physical and perceptual connections.



Architect: Baskervill, Richmond

Project: Worth Higgins Richmond Facility Expansion, Richmond

This 130,000-sf facility will provide office, production, and warehouse space for the consolidation of Worth Higgins Associates Richmond-area print operations. Tel: 804.343.1010 / www.Baskervill.com



Architect: Clark Nexsen, PC, Norfolk

Project: Amerigroup Headquarters, Norfolk

This LEED Silver renovation includes flexible meeting conference, dining, and terrace space for collaboration in groups numbering between 2 and 600 people. Tel: 757.455.5800 / www.clarknexsen.com

44

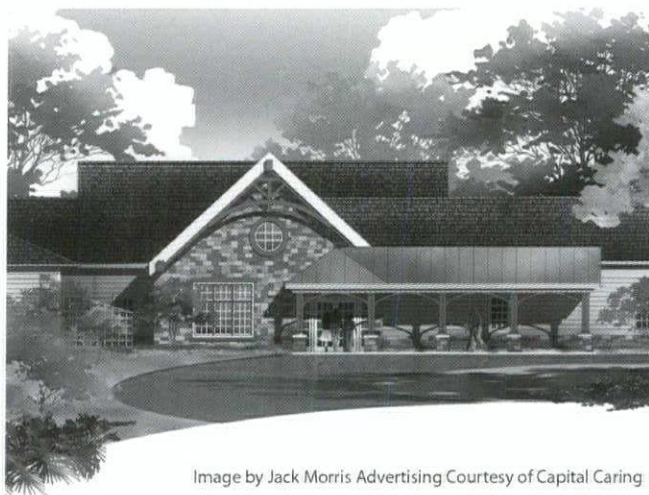


Image by Jack Morris Advertising Courtesy of Capital Caring

Architect: Dewberry, Fairfax

Project: Adler Center, Loudoun County, Va.

The 49,920-sf building designed for owner Capital Caring will house a pain clinic and home-care business offices in addition to a full-service hospice. Tel: 703.698.9050 / dewberry.com



Architect: HKS Architects

Project: Children's Hospital of Richmond Pavilion, Richmond

This 243,000-sf facility will provide comprehensive and compassionate healthcare for children including primary and subspecialty care, outpatient surgical services, medical student education, and clinical research studies. Tel: 804.644.8400 / www.hksinc.com



Architect: Mitchell/Matthews, Charlottesville
Project: CampusWalk at Longwood University, Farmville

This mixed-use academic and residential project located on the edge of downtown and adjacent to the central campus responds to the predominant scale, rhythm, and character of downtown Farmville. Tel: 434.979.7550 / www.mitchellmatthews.com



Architect: Moseley Architects, Raleigh, N.C.
Project: Elementary School No. 11, Chapel Hill, N.C.

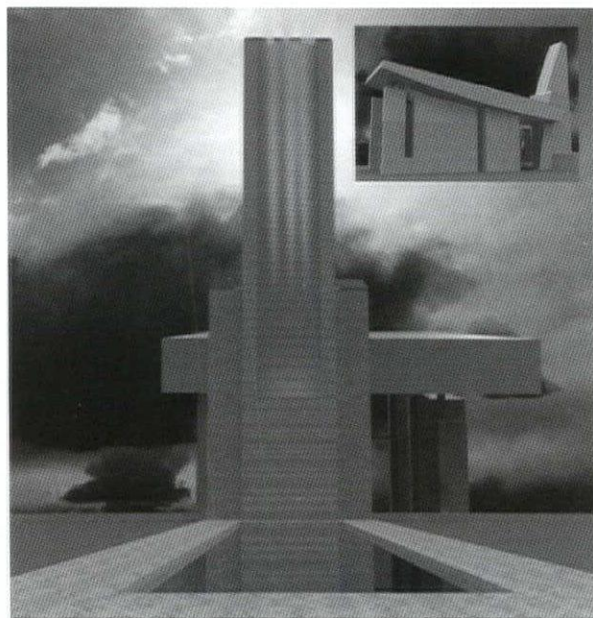
Chapel Hill-Carrboro City Schools' new three-story elementary school will accommodate 585 students and integrate the district's "Policy 9040" for high performance design. Tel: 804.794.7555 / www.moseleyarchitects.com

45



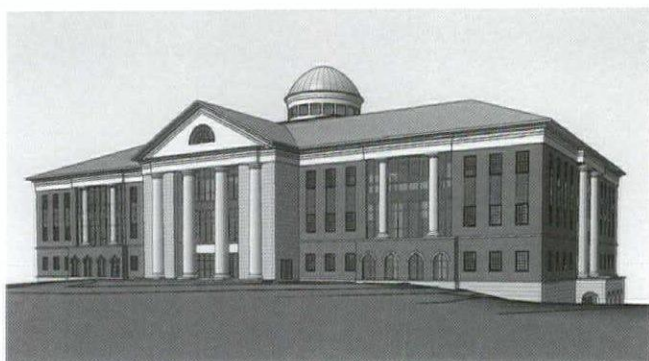
Architect: ODELL, Richmond
Project: Corporate Center, Richmond

The siting of this 90,000-sf amenity building clarifies the spatial order of an existing corporate campus while elevating the visitor arrival experience. Tel: 804.287.8200 / www.ODELL.com



Architect: SFCS Inc., Roanoke
Project: Rockhill Mennonite Meditation Chapel, Sellersville, Pa.

The chapel is small and intimate for reflection and contemplation. The entry represents the open tomb, and three light shafts symbolize the Holy Trinity. Tel: 540.344.6664 / www.sfcs.com



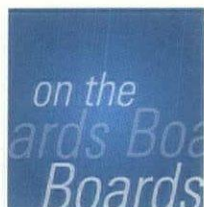
Architect: Wiley|Wilson, Lynchburg

Project: Liberty University Health Sciences Building, Lynchburg

The 139,000-sf, four-story academic building is scheduled to open August 2014. It will house Liberty University's new Osteopathic Medicine program and expand Health Sciences. Tel: 434.947.1901 / www.wileywilson.com

46

How do I get my
firm's project featured
in On The Boards
in *Inform* magazine?



Contact: Cathy Guske
804-644-3041, ext. 301
cguske@aiava.org
or visit www.aiava.org/inform

Allied Membership



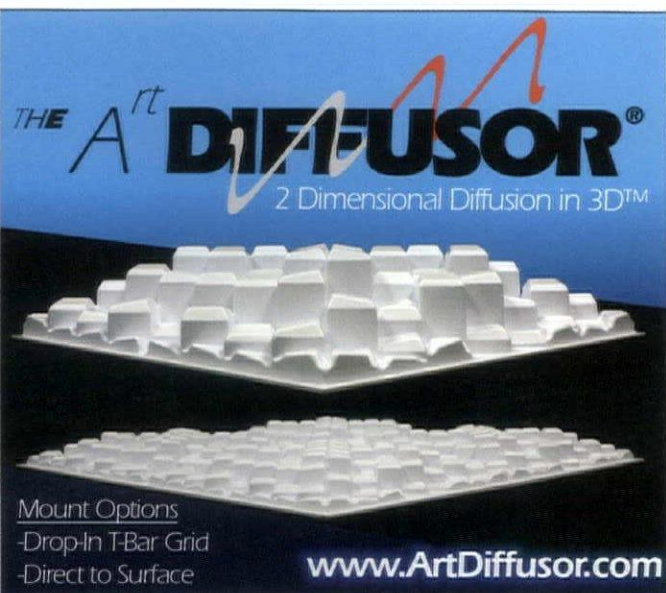
Gain the competitive edge by improving your visibility and credibility with architects. Build a truly integrated partnership with the **Virginia Society of the American Institute of Architect's Allied membership program.**

Here are just a few of the benefits Allied members enjoy:

- Invitations to special events and programs
- Receive (and appear in) the VSAIA Annual Member Directory
- Special discounts on advertising
- Savings on ArchEx registration, code books, and AIA contract documents

Contact Shanelle Calvin at
(804) 237-1772 or scalvin@aiava.org.

Virginia Society **AIA**
www.aiava.org



Acoustics First® Art Diffusor® Series ▲

The Art Diffusor® is a patented series of sound diffusers used to increase the clarity of sound while maintaining the ambient character of the room.

- Improve and diffuse ambient sound
 - For use in multiple applications, residential & commercial
 - Easily drops into existing 2'x2' suspended ceiling grids
 - Direct mount to wall and ceiling surfaces
 - Use behind fabric stretch wall systems
 - Typically available from stock
- www.AcousticsFirst.com**



SMART VENT Flood Vents ▲

These FEMA-accepted engineered flood vents are the only nationally certified flood vent on the market, making it the preferred choice of code officials, surveyors, and builders. Each 16"x8" vent is ICC-ES certified for 200 sf of flood protection per vent with models available for both residential and commercial applications. Email aia@smartvent.com to set up an in-office (1) HSW/SD presentation, or it's available online. **www.smartvent.com**

47

Index to Advertisers

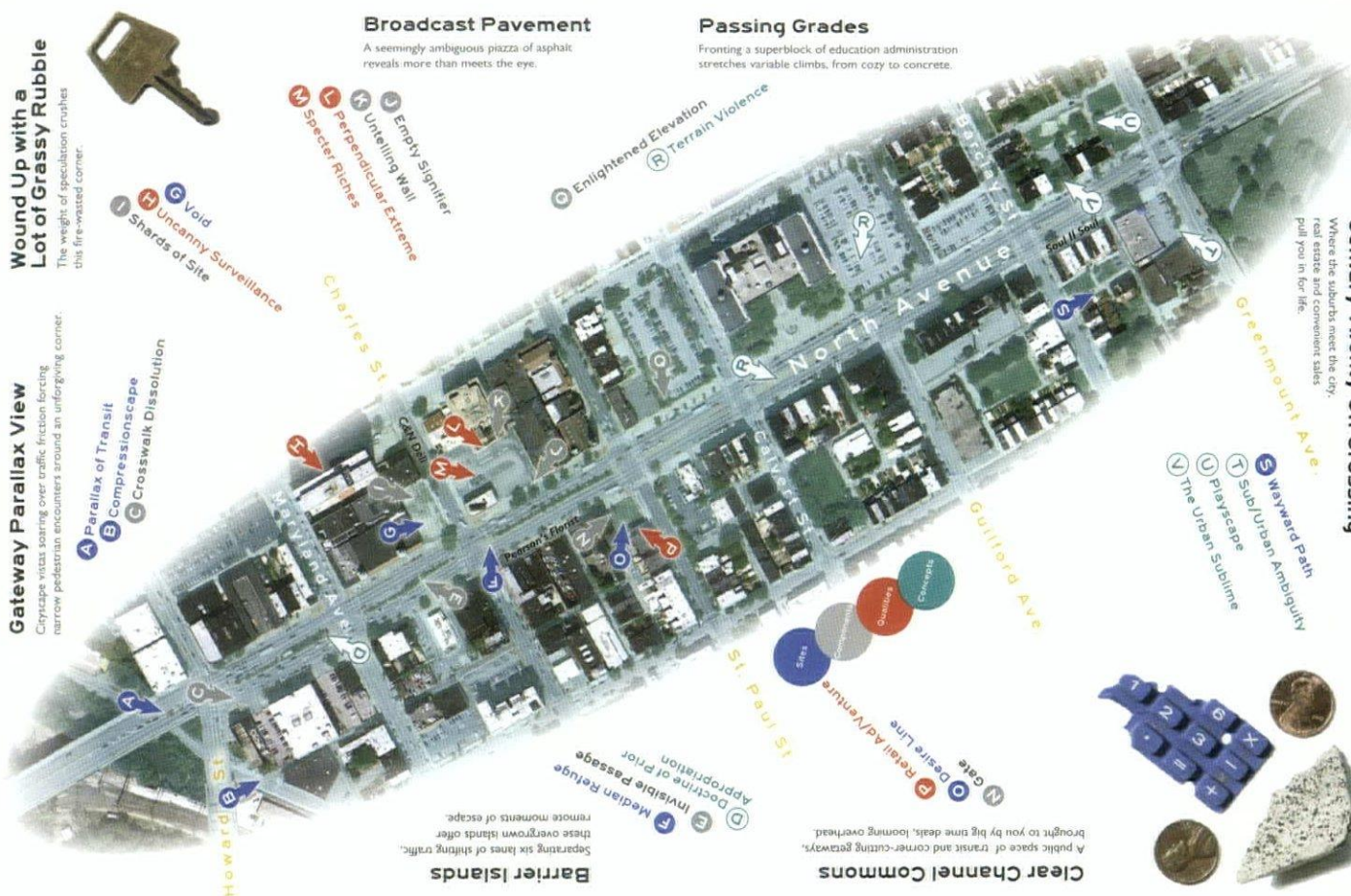
AcousticsFirst Corporation	www.acousticsfirst.com	p.47
Duratherm Window Corporation	www.durathermcorporation.com	p.1
Eric Taylor Photography	www.ericaylorphoto.com	p.47
Glavé & Holmes Architecture	www.glaveandholmes.com	p.2
Mid-Atlantic Precast Association	www.mapaprecast.org	inside front cover
Phoenix Noise & Vibration	www.phoenixnv.com	inside back cover
Sherwin Williams	www.swspecs.com	p.2
SKANSKA	usa.skanska.com	p.6
SMART VENT Flood Vents	www.smartvent.com	p.47
Virginia Housing Development Authority	www.vhda.com	p.6
Wood Products Council	www.woodworks.org	back cover

Market Place

Eric Taylor Photography

I bring an architect's perspective to architectural photography

703.851.7102
www.EricTaylorPhoto.com



A Bore Is More

Venice Architecture Biennale presenter picks New Public Sites from Postmodern pulp

By R. Tyler King

Graham Coriel-Allen—among the awarded “Spontaneous Interventions” U.S. team at the 2012 Venice Architecture Biennale this past fall—is the proponent of New Public Sites (NPS) whereby, as “radical pedestrians,” he encourages people to identify and catalogue overlooked and abandoned usable spaces in urban settings. Tyler King caught up with him following a guided tour of the NPS landscape of Baltimore.

“There is an island—a manmade island—called Tronchetto,” says Baltimore-based public artist Graham Coriel-Allen as his hands sculpt from air a model of the storied car-park destination west of Venice. “From the top, you can see all of these beautiful towers and campaniles of the city. And it’s all one big public space.”

Even Venice, which is all about the spectacle of its historic architecture and pedestrian urbanism, is beholden to the infrastructure of tourism he notes. To Coriel-Allen, these New Public Sites—such as cloverleaves, parking lot perimeters, and median strips—provide a platform to discuss the role of liminal territory.

The Venice Biennale American pavilion, *Spontaneous Interventions: Design Actions for the Common Good*, featured NPS among a total of 124 urban interventionists operating at the grassroots level. *Architect* editor Ned Cramer curated the exhibition, along with Anne Guiney, Cathy Lang Ho, David van der Leer, and Michael Sorkin.

Coriel-Allen has led his tours through New York, Baltimore, and D.C. and, this spring, is planning one for Richmond to identify New Public Sites (see newpublicsites.org for details).

“Ultimately I want the typology to appeal to diverse audiences from academics, designers and explorers to curmudgeons and the curious passersby,” he explains. “When competing with the spectacle, we

have to first convince participants that critique can be funny.”

“Latent potential,” should not be confused with capitalist land speculation, he says. “Not all public spaces need to be developed.” And he considers the concept of private space as secondary to public right-of-way.

Through socially engaged art practices, a suspenseful discursive scaffolding begins to envelop otherwise “placeless” places, he contends in his collection of publications. With the Biennale, in particular, the new archetypes of public space offered passage into the long Venetian tradi-

tion of imaginary urban experiences, from the images of its Enlightenment polemicists, which coupled documentation and fantasy, to Italo Calvino’s *Invisible Cities* portrayal of Venice as a series of fictional places. As Coriel-Allen explains: “You can fictionalize cities, but make them feel so real.”

The full text of this article is on readinform.com, which will carry updates on the Richmond tour as it is planned.



Devising his own set of terms for unappreciated/under-used spaces and vistas, Coriel-Allen guides fellow “radical pedestrians” through Baltimore.



Tragedy counts many victims. Including the unfortunate architect who ignores acoustical engineering.

Faulkner's classic Shakespeare reference serves up an apt warning for architects: Ignore the twin evils of noise and vibration and risk tragic consequences.

The last thing you want to hear is bad news about acoustical design – or the lack thereof. From mechanical hum to environmental noise, the pitfalls are lurking. Whether you need to ensure vibration-free lab settings or

provide workspace speech privacy, Phoenix Noise & Vibration can help. With staff board-certified in noise control engineering, we offer solutions designed on the front end versus trouble-shooting on the back end. Or worse. (You sure won't like the sound of *that*.)

Make sure your next project has a classic ending. With acoustical engineering by Phoenix, it's bound to resonate success.

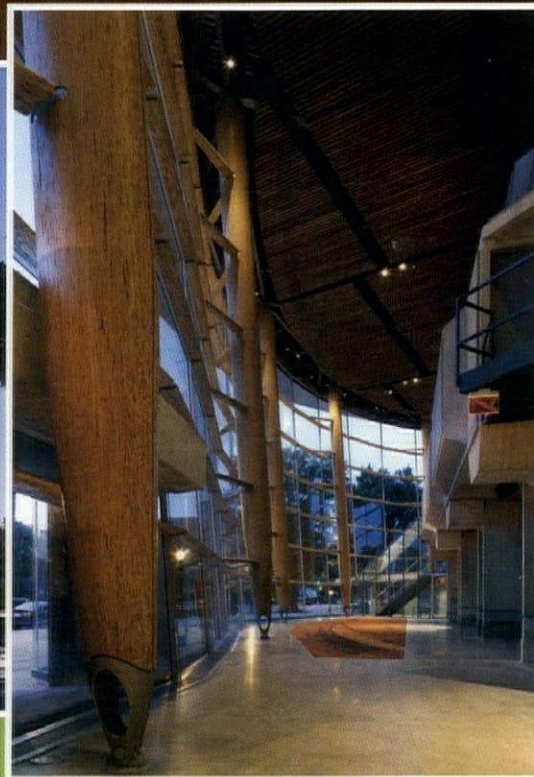


Acoustical Engineering Solutions.

Maryland | Washington, DC | Virginia | 301.846.4227 | phoenixnv.com | Member: NCAC, ASA, INCE, NSPE, USGBC



woodworks.org



Free Design and Engineering Support for Wood Buildings

TECHNICAL SUPPORT – Free one-on-one project support from experts in wood design

ONLINE TRAINING – Stream webinars and download technical materials at no cost or pay a nominal fee and earn AIA/CES CEHs or PDH credits

WEB-BASED TOOLS – CAD/REVIT details, cost and carbon calculators, span tables, product and design guides

EDUCATIONAL EVENTS – Wood Solutions Fairs, workshops, in-house presentations



WoodWorks

Wood costs less and delivers more



Question about wood design?

Scan for free one-on-one project support.

WoodWorks is an initiative of the Wood Products Council, a cooperative venture of major North American wood associations.

Photos: (l-r) Drs. Julian and Raye Richardson Apartments, David Baker + Partners, photo Bruce Damonte; Arena Stage at the Mead Center for American Theater, Bing Thom Architects, photo Nic Lehoux; New Genesis Apartments, Killefer Flammang Architects, photo K.C. Kim, GB Construction



WoodWorks is an approved AIA provider.