

# MICUA Matters

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SUMMER 2010

## Capitol College Introduces Information Assurance Doctorate

In March, **Capitol College** announced the addition of a doctor of science degree in information assurance to its academic programs. The program will be the first of its kind in the State and one of fewer than ten such programs across the U.S. Furthermore, the new

program supports Governor Martin O'Malley's ambition to make Maryland the "epicenter" of cyber security for the nation. There are currently more jobs available in information assurance than there are qualified Maryland workers to fill these jobs, with an

especially sharp demand for people who also have a security clearance.

"We have over 100 people with graduate degrees in information assurance and related disciplines waiting for this doctorate to get under way," said Capitol College Dean Helen Barker. "We anticipate working professionals from all areas of government, military service members and veterans, representatives from professional organizations and private industry with a focus on information security, and recent graduates who hold degrees in fields like computer science and engineering or homeland security to be excited about the prospect of receiving the highest level of education possible." ■



## Documentary by MICA Team Wins an Oscar

**M**usic by Prudence, a documentary short subject film co-produced by a **Maryland Institute College of Art** faculty member, won an Oscar in the 82nd Academy Awards in March. The film follows the lives of eight physically disabled young Zimbabweans who play in the Afro-fusion band, Liyana. It aired on HBO May 12 and at the Maryland Film Festival May 7 - 9.

Patrick Wright, chair of MICA's video and film arts department and the co-producer and associate editor for *Music by Prudence*, obtained seed funding for the documentary through MICA's Office of Research. One of the documentary's cinematographers, Errol Webber Jr. '08, shot the film less than two weeks after his graduation from the College, making him the youngest cinematographer ever to shoot an Oscar-winning film. Matt Davies '09 worked extensively on sound post-production after interning on the project with several other students.

Wright was originally hired in MICA's photography department with a mandate to develop a video major, which was established in 2003. The department now has many undergraduate majors who produce video works in a wide range of forms, from narrative to documentary, experimental to installation work, and motion graphics to Web-based multi-media projects. ■



Director of Photography Derek Wieseahn and Co-Producer/Associate Editor Patrick Wright celebrate after winning the Oscar.

## GOOD NEIGHBORS: WAU and Montgomery County

By Weymouth Spence, President of Washington Adventist University

For more than a century, Washington Adventist University (WAU) has been a proud member of the Montgomery County community. With a 19-acre campus in the heart of Takoma Park, WAU is the only four-year residential college in the County.

Founded in 1904, WAU is a Christian institution welcoming students of all faiths and backgrounds and focused on preparing individuals for lives of service, leadership, and civic engagement. With classes offered in Shady Grove and Takoma Park, WAU provides career-building undergraduate and graduate programs. WAU offers a number of baccalaureate degrees including acclaimed programs in nursing, education, psychology, music, and pre-law. The School of Graduate and Professional Studies offers certificates, undergraduate degree completion, and graduate programs in an evening format for adult professionals.



The WAU student body mirrors the diversity of Montgomery County and is one of the most diverse in the nation (ranked in the top 10 by *U.S. News & World Report*). More than a quarter of our student body resides in Montgomery County. The diversity of the County also provides us with a rich resource of scholar practitioners that enhance the learning environments and experiences of our students.

The County's supportive business environment provides our students with outstanding internship opportunities—a key facet in a WAU education. Through these professional interactions, our students gain insight and skills that prepare them to be competent leaders in their chosen professions.

A recent \$1.3 million grant from the Maryland Hospital Association, made possible in part by Adventist Health Care, has allowed us to increase capacity in our nursing program to help stem the staffing shortages. Our students do clinical work in several County facilities, including Shady Grove Adventist Hospital and Washington Adventist

Hospital. WAU nursing program graduates have achieved a 100% pass-rate on the NCLEX-RN licensing examinations.

Our education program has developed key partnerships with Montgomery County Public Schools (MCPS). WAU education majors gain tremendous experience working with mentor teachers through a student practicum program at several MCPS locations. In partnership with MCPS, WAU also teaches County para-educators seeking to better serve the needs of MCPS students. In this program, Montgomery County teachers combine either early childhood or elementary education and special education to receive dual State certification and a bachelor's degree. With the growing number of children in our region who are identified with diverse learning styles, this focus on special education is particularly important to our community.

In the center of our campus stands a brick and iron gateway that symbolizes our long held motto: "Gateway to Service." We take that motto to heart. Each year on WAU Service Day, more than 200 students volunteer with local organizations to serve in a variety of ways. This year students packed food at food banks, cleaned up neighborhoods, assisted the Takoma Park Police Department, helped at an animal rescue farm, and pitched in at a pediatric AIDS relief organization.

And we are growing. In April we broke ground on a music building—a new home for our proclaimed music performing groups: the New England Youth Ensemble and Columbia Collegiate Chorale, who perform regularly in the region, the country, and around the world.

Our vision at WAU is to produce graduates who bring moral leadership and competence to their communities. We remain one of Montgomery County's vital organizations and will continue to seek ways to serve our neighbors and this County. ■

## GOING GREEN: *MICUA Schools Work Toward a Sustainable Maryland*

**D**espite budget challenges and widely fluctuating energy costs, many MICUA schools are increasing sustainability initiatives on campus. Four MICUA institutions—



Goucher College, McDaniel College, Mount St. Mary's University, and Washington College—have signed the American College and University Presidents' Climate Commitment,

thereby committing to exercise leadership in their communities and throughout society by modeling ways to eliminate global warming emissions, and by providing the knowledge and the educated graduates to achieve climate neutrality. On the State level, almost all MICUA colleges and universities are actively participating in Governor Martin O'Malley's Smart, Green & Growing initiative. Read on to learn just a few of the ways Maryland's independent colleges and universities are going green.

### **Mount St. Mary's University**

In December, Mount St. Mary's University announced a partnership with Constellation Energy Group to create and house one of the nation's largest solar photovoltaic power farms. This project is part of the statewide initiative, Generating Clean Horizons, to use clean, renewable resources to supply power to Maryland universities and many State-run offices. This power system is expected to be completed by December 2012 and create 15.9 megawatts of power with 1.2 megawatts being supplied back to the Mount. The Mount is dedicating 100 of its 1,400 campus acres to this initiative.

Mount St. Mary's University, founded in 1808, presently serves as a pilot school model in the

nation's American College and University Presidents' Climate Commitment and the Clinton Climate Initiative.

### **St. John's College**

Among its many sustainable practices, St. John's College purchases credits for wind power and has two dormitories that use geothermal power and were constructed using energy-saving windows, as well as flooring and walls made of recycled composite materials. In addition, St. John's College has a Living Shoreline—one of the largest on the Chesapeake Bay—which is used as a demonstration model site.

The 885-foot shoreline restoration, completed in 2006, is one of the largest projects of its kind along the Chesapeake Bay. Along the College Creek shoreline, which was once a bulkheaded seawall, there is now a sloping, ecologically restored wetland protected from erosion with bio-logs and native species of marsh grass.

### **Goucher College**

Since signing the American College and University Presidents' Climate Commitment in 2007, the Goucher College community has made important strides in efforts to become more environmentally sustainable. The College has completed a campus-wide greenhouse gas emissions inventory, partnered with Zipcar, purchased Renewable Energy Certificates, began composting all the food waste in the dining halls, hosted a series of farmers' markets, and started



*(Continued on page 4)*

a new major in environmental studies, among other initiatives. Goucher's efforts have earned a B+ on the Sustainable Endowments Institute's 2010 College Sustainability Report Card.

Goucher passed a policy in 2009 that ensures all new buildings or major renovations to existing buildings are planned with the goal of achieving at least a Silver rating according to the U.S. Green Building Council's LEED (Leadership in Energy and Environmental Design) Green-Building Rating System. The Athenaeum, completed in September 2009, is Goucher's first Silver-certified new building.

### Johns Hopkins University

Johns Hopkins University has announced a plan to cut its emissions of climate-changing carbon dioxide gas by more than half from projected levels by 2025. The University will invest more than \$73 million in conservation and efficiency measures that will cut emissions caused by facilities operations by an initial 81,000 metric tons a year. That's 57% of the overall goal of cutting 141,000 metric tons from the 276,000 a year in emissions it would otherwise be generating 15 years from now. Adopting new technologies that emerge between now and 2025 will also help the University achieve its goal.

Another key element of the plan is to put Johns Hopkins knowledge to work contributing to Baltimore's and Maryland's sustainability and climate change efforts. In one such effort, Johns Hopkins students will be trained to conduct audits at nonprofit organizations in the City and help them determine how to cut energy use and greenhouse gas emissions.



### Loyola University Maryland

For the past three years, Loyola University Maryland has topped the State in the per capita category in the nationwide Recyclemania contest. In Loyola's single stream recycling system, all recyclables can go in the same container, increasing the options for what can be recycled. On average the University recycles 35% of its waste.

To promote water conservation in dormitories, the University has installed low-flow shower heads and Energy Star washers. A green residence hall was built using recycled construction materials. The hall boasts a living roof and takes advantage of geothermal energy.

Dining services offer students recyclable "to go" containers, trayless dining, local food options, farmer's market on the quad during peak growing seasons, and organic and fair trade options.

### College of Notre Dame of Maryland

Since fiscal year 2005, College of Notre Dame's carbon footprint has been reduced by 20%, which is the equivalent of 267 cars being taken off the road and more than 4,000 trees being planted.

How did the College lower energy use? In fiscal year 2005, College of Notre Dame instituted a utility master plan to better utilize facilities, make capital plant investments where necessary, better utilize the market to find the best rates, and educate the community to save energy consumption. Additionally, College of Notre Dame participates in community

*(Continued on page 5)*

green initiatives such as Earth Hour. The event, sponsored by the World Wildlife Fund, encourages participants to switch off lights as a symbolic support for the environment.

## Stevenson University

The Stevenson University School of Business and Leadership demonstrates the commitment the University has made to green buildings and sustainability. Eco-friendly features include energy-efficient light fixtures and occupancy sensors, low-flow plumbing, a web-based control system to allow for remote setbacks during unoccupied periods, and low-E glass to reduce heating and cooling loads. The new structure did not require additional parking areas or construction of impervious surfaces—reducing the environmental footprint.

What do cups, food waste, and soap have in common? At Stevenson University, these three products are part of a larger effort toward greening the campus with recycling, purchasing of eco-friendly products, and rethinking how things work. Here's a sampling of what's new: recyclable corn cups and refillable mugs in the Mustang Corral eatery; paper towel dispensers are now battery-powered "Enmotion" dispensers, saving paper and dollars; and refrigerants are captured when appropriate and sent to a company for cleaning and reuse.

## Washington College

Situated on Maryland's Eastern Shore, Washington College is surrounded by the coastal and inland waters of the Chesapeake Bay. The College's benefactor, George Washington, promoted sustainable economic cycles by advocating compost

as a method to amend damaged soils. Today, Washington College is nationally renowned for promoting sustainability and has successfully tested burning biofuel instead of diesel fuel in the College's main heating plant.



Every year, the College hosts the George Gets Ingenious competition to solicit ideas for sustainability that can be implemented on campus. Ideas are judged based on creativity, applicability, practicality, and sustainability. The contest is open to current students, staff, and faculty at Washington College. This year's submissions included suggestions for obtaining grants to provide funding for green projects, utilizing biodegradable bags, harvesting rainwater, installing motion sensors for lighting, creating vegetable gardens on

dorm roofs, ways to recycle used athletic shoes and cleats, and more.

## McDaniel College

McDaniel College utilizes geothermal heat pumps for student housing—including nine North Village apartments and the Garden apartments—where their use has cut energy costs by one-third. Additionally, a geothermal system is in the works for Blanche Ward Hall.

Through a paper management program, students are limited to 400 free pieces of paper in the computer labs, after which each page costs five cents per page. The Hoover Library computer lab cut its paper usage in half and dramatically lowered its need for new toner cartridges.

Earth-friendly chemicals are being used to maintain the athletic fields and golf course. Chemicals used by the housekeeping department are also earth-friendly and bought unmixed in

*(Continued on page 6)*

concentrate form. This saves money and fuel used in shipping and encourages bottle re-use.

### **Maryland Institute College of Art**

As Maryland's only college of art and design, MICA is always looking for new and creative ways to enhance sustainability and reduce the College's carbon footprint. MICA has contracted an independent auditor to track the College's energy in an energy use audit. This will allow MICA to generate a fully informed plan for smart energy use.

To safely dispose of dangerous chemicals, MICA uses a turpentine and solvent disposal program for painting studios, collects hazardous waste in clearly marked containers, and conducts campus-wide purges of residual hazardous waste.

MICA's operations staff uses electric vehicles for day-to-day operations. These vehicles eliminate exhaust emissions and the use of fossil fuels and reduce noise pollution. To promote bicycle use, MICA has installed bicycle racks convenient to every building on campus.

### **Hood College**

The Facilities Office at Hood College has undertaken many environmental initiatives. Some of these include conversion to a certified green line of housekeeping cleaning products, removal or encapsulation of the vast majority of known probable asbestos-containing materials in public access areas on campus, and reduction of the amount of waste that is taken to the landfill.

In addition, the College has begun to use non-VOC (volatile organic compound) building

materials in campus projects involving paint, carpet, and furniture and to monitor indoor air quality in mechanical rooms not accessible by the public. The College also employs energy reduction programs to limit the harmful chemical compounds CO, CO<sub>2</sub>, and NO<sub>2</sub>—carbon monoxide, carbon dioxide, and nitrogen dioxide—that enter the atmosphere as a result of energy use by Hood.

### **Washington Adventist University**



Green efforts at Washington Adventist University are making a significant increase in energy savings. Mostly centered in the facilities management department, green actions to date include changing

lighting fixtures and plumbing fixtures for greater efficiency. The University is in the process of installing lighting control across campus in common spaces and installing water gardens to control sump pump discharges. In addition, WAU has redirected floor drains in three buildings to protect the sensitive eco-systems of a local park and waterway.

Their food service provider, Alladin Food Management Services, also reports the following first steps toward sustainability: identifying and reducing energy wasters, going tray-less in the dining room once a week, and using cloth towels to sanitize instead of paper towels.

### **Capitol College**

Capitol College takes advantage of its computer science and IT expertise to become more energy

*(Continued on page 7)*

efficient. The College uses teleconferencing technology and the synchronous Capitol Live and asynchronous Capitol Online platforms to host events and meetings, and to connect long-distance faculty members and business partners in lieu of travel to campus. In addition, Capitol allows eligible employees to participate in a telecommuting work option to reduce daily commuter trips and fuel consumption.

The College recently signed a contract with BGE as part of the BGE Smart Energy Savers Program to install four variable frequency drives on the HVAC system for several main buildings on campus. In ventilation systems for large buildings, variable-frequency motors on fans save energy by allowing the volume of air moved to match the system demand. Total cost savings is \$38,288 and a reduction of 176,470.2 kilowatt-hours per year.

## Baltimore International College

Baltimore International College is motivating members of the College community to reduce energy consumption and environmental impact. Students and staff at the College—the region’s leading institution for culinary arts and hospitality management degrees—are encouraged to walk, use public transportation, or BIC’s shuttle bus service for commuting between campus locations. Staff and faculty are encouraged to turn off computers, lights, and other office equipment when not in use.

BIC prefers to purchase environmentally friendly products, giving them first consideration. Faculty and staff provide their own reusable water containers, coffee mugs, silverware, and plates. In addition, BIC recycles cooking grease from all culinary laboratories and the Bay Atlantic Club. ■

## Johns Hopkins Program Leads to More Baltimore City Homebuyers

Since **Johns Hopkins** launched a revamped and incentive-laden program aimed at distributing \$5 million to help employees buy homes in select Baltimore City communities, 108 employees have been awarded \$635,500 in grants, and more are expected to apply as the weather warms and the home-buying season kicks into high gear.

The program was launched in 1997 to help Johns Hopkins University and Johns Hopkins Health System employees become homeowners in Baltimore City while cutting down on commuting time, saving gasoline, and strengthening urban communities. The *Live Near Your Work Program* currently offers grants of up to \$17,000 to help with down payments and closing costs for properties near various Johns Hopkins campuses.

Program director Michelle Carlstrom noted that, of the grants awarded this fiscal year, 28 were for home sales near the Homewood campus, including those in the Barclay and West Greenmount communities, situated southeast of Charles Village. “This is exactly how we wanted the program to work—to go out from historically strong neighborhoods and keep moving out to make a difference in emerging neighborhoods where home sales (previously) were flat,” she said. Carlstrom said that indicators are also promising in the area just north of the medical campus, the site of East Baltimore Development Inc.’s \$1.8 billion revitalization project. ■



*Michelle Carlstrom, who directs Johns Hopkins' Live Near Your Work program, is also a client. She bought this house in a LNYW neighborhood near the University's Homewood campus.*

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## **“Listening Project” Supports Loyola’s York Road Corridor Efforts**

**T**he **Loyola University Maryland** community came together this past winter and spring for a series of “listening” events designed to help shape Loyola’s growing engagement with the York Road corridor adjacent to the University’s Evergreen campus. The *Loyola is Listening* project matched neighborhood residents and business owners with Loyola faculty, staff, administrators, and graduate students trained to ask an extensive series of questions about what the residents enjoy about their neighborhood, what they would like to change, what services and amenities they would like to add, and what role Loyola should serve in the community.

“Loyola’s participation in the future of the York Road corridor is a key component of our strategic plan,” said Vice President for Administration Terrence Sawyer, whose division developed *Loyola is Listening* with guidance from the American Friends Service Committee. The information gathered from the *Loyola is Listening* sessions will be used to guide Loyola’s York Road activities. The University is considering a wide range of ways of making positive contributions to the future of the York Road community, from a business resource center to afterschool programs for neighborhood youth. These efforts will be supported in the coming academic year with the addition of a full-time Americorps VISTA worker assigned to the project. ■