Rollins family gives $50M gift to School of Public Health

BY SARAH GOODWIN

The Rollins School of Public Health has received a commitment of $50 million from the O. Wayne Rollins Foundation and Grace Crum Rollins. The gift will enable the school to make extraordinary gains in public health education, research and prevention, noted Dr. John Fox, senior vice president and chief of the Healthcare system, said John Fox, Emory Healthcare president and CEO. “Our mission of delivering compassionate care and world class medical research is recognized each day by our patients and their families. The rankings both honor our hard work—and challenge us to reach even higher.”

“Rollins family reflects their vision and their desire to go to extraordinary lengths to ensure that we have the capacity to make our leadership for public health a reality, both locally and globally,” said President Jim Wagner. The Rollins family has been a generous benefactor to Emory for generations. Early major gifts to Emory’s Candler School of Theology, to the O. Wayne Rollins Research Building and to the Rollins School of Public Health exemplify the family’s commitment to serving humanity. As members of the Emory Board of Trustees, O. Wayne Rollins and later his sons, Randall and Gary Rollins, recognized the importance of an outstanding school of public health could have for all of humanity.

The Rollins family’s earlier contributions to the school include major funding toward the construction of the Grace Crum Rollins Building, named for O. Wayne Rollins’ wife and Gary and Randall’s mother. Generous gifts have helped to build a significant endowment for the school and have accelerated the recruitment of outstanding faculty leaders. The family’s concern for protecting health led to the creation of the Center for Public Health Preparedness and Research.

**See ROLLINS GIFT on page 3**

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**CAMPUS NEWS**

**U.S. News & World Report ranks Emory among nation’s top hospitals**

For the 18th straight year, Emory Hospital has joined the prestigious ranks of America’s top medical institutions in the annual U.S. News & World Report guide to “America’s Best Hospitals.”

Emory ranked among the nation’s best hospitals in eight specialties, including six top 25 rankings. Emory is recognized in this year’s comprehensive report for excellence in: geriatrics; psychiatry; heart and heart surgery; ophthalmology; ear, nose and throat; neurology and neurosurgery; kidney disease and urology. These eight specialties are more than any other hospital in Georgia, and no other hospital in the state ranks in the same categories as Emory.

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**EDUCATIONAL STUDIES**

**Challenge & Champions inspires student and teacher enthusiasm**

BY KIM URIQUHART

From tracking a popular Harry Potter book from script to screen to learning the basics of badminton, Challenge & Champions offers a clever combination of academic enrichment, physical education and summer fun for rising 6th, 7th and 8th graders from metro Atlanta.

The innovative three-week program serves a dual purpose: to challenge young minds and train pre-service teachers.

The program blends academics with athletics to help middle school students develop healthy habits while practicing their still-developing social skills and independent learning strategies. Through the multidisciplinary courses, students reinforce enthusiasm for learning and challenging themselves. Assisting the teachers and children are Emory Master of Arts in Teaching graduate students enrolled in an intensive course on classroom management.

“This is truly a theory practice learning course,” said Karen Falkenberg, lecturer in the Division of Educational Studies and program director since 2006. The “rigorous course” allows MAT students “an opportunity to get immersed with kids early and in a small setting,” she said.

The Emory teachers-in-training observe and assist C&C teachers in action during the academic classes. Falkenberg described these local educators as “the best of the best.” The graduate students also meet for mentoring sessions with another exemplary practicing teacher, Lisa Garosi, an instructional coach in the Fulton County Schools. The topics they discuss are connected to what they are learning in Falkenberg’s course: the nuts and bolts of what it takes to energize a class and make the subject matter stick.

The program provides an opportunity for C&C teachers to share ideas and methods with the MATs and to renew the excitement that led them to the field. Michelle Frost, a math teacher at the Atlanta Girls School who has been involved with C&C in various capacities for three years, noted the importance of learning from experience. How to handle “the day-to-day problems and experiences that come up in real life” comes from practice, she said. This is true for both the MATs and children.

Frost teaches “The Secret Lives of Mathematicians,” a course designed to generate preteen enthusiasm. Studying the biographies of men and women who are leaders in the field of math “personalizes it for the students,” she said.

Enrolled children select two interdisciplinary electives from the four offered: language arts, social studies, science and math. A course titled “Words in Motion,” taught by Jennifer Johnson, an Emory MAT alumni and a “Teacher of the Year” from Gwinnett County, featured a trip to the Woodruff Library and Emory’s theater department and culminated in the students’ presentation of a puppet show. “Light up your life,” taught by Aminata Umoja, a veteran teacher with more than 25 years experience, included a visit to an Emory science lab where graduate students demonstrated experiments on electromagnetics. Participating in a mock trial at Emory Law School was a highlight of “Democracy: How it Works,” a course taught by Milton High School’s David Lakin.

“Enjoying the resources offered on Emory’s Clairmont Campus, C&C students spend the afternoons sprinting in the 100-meter dash in an Olympic sports field, testing their skills in “camp games,” learning the latest moves in step class, or playing basketball, volleyball or soccer. These P.E. courses, taught by master teachers Eric Heintz, Craig Johnson and Todd Posey, strive to blend fun, skill-building, confidence and sportsmanship. The children learn sports such as badminton, water polo and team handball, options not typically found in a traditional sports camp.”

The program’s most popular activity is the free swim every afternoon in Emory’s 50-meter Olympic-sized pool.

See CHALLENGE & CHAMPIONS on page 7
Doug Marlette, the famed political cartoonist, once helped me set up chairs at Emory. We were preparing the Winship Ballroom for one of the last presentations he would give before winning the Pulitzer Prize. Doug — and the chairs and his cartoons — helped chart the course of my life.

Doug had hoped early to set up the slide show that would illustrate his keynote address for the Stipe Society’s annual Creative Scholarship Competition. When he saw me struggling with the huge stacks of chairs, he insisted on helping. I confessed that I was doing this job solo because of a cartoon he recently had penned for The Atlanta Constitution that depicted the Israel army as troopers storming into an attic shrouding “Anne Frank” while a startled girl looked up from her diary. Some faculty and students had complained to our faculty advisors and to the administration, who in turn suggested I might want to ask if the cartoonist’s speaking invitation and find a replacement. What should I do? This was 1988, a time of big hair and big egos and little tolerance. I was a shy, sensitive junior, a peacemaker in my campus big shot. I usually sat quietly in class, studiously taking notes, thinking, but rarely speaking out. I expressed myself through poetry and deep conversations with my small circle of friends. Most expected me to do what I was told and find a replacement.

But being a part of a thinking community like Emory meant not only thinking about things, but perhaps more importantly, thoughtfully acting. It’s what Doug Marlette spent his entire career doing. He thought about the foibles and fears that muddle our world and he illuminated them, poking fun at them and as he provoked us into questioning our assumptions and the assumptions of others. His invited debate, loved to generate controversy, because — as he told us that night — “The free discussion of ideas and opinion is the lifeblood of a free society.”

I refused to uninvite Doug Marlette, and in return, he gave me those who attended that night the unforgettable lesson in the importance of our First Amendment right and the inestimable value of art as creative scholarship. The event went off with only a few complaints, the chairs being the greatest and the sparseness of protesters being the least.

Doug Marlette helped me understand that life is all about creating meaning in everything we do and say. Having a reason to work is much more motivating than having a paycheck for work. Speaking up for those whose voices go unheard is more important than speaking up for self-pro-motion. Making a difference is more rewarding than simply being different.

After that night, I decided that thinking was the right path. I learned to be creative. I would be productive. I would be meaningful in the life of my work working on redrawing the world around me so that it was better for as many people as possible. That’s why I’m humbled to have the privilege to be back at Emory, at the Office of University-Community Partnerships, asking the hard questions, creatively seeking collaborative strategies to try to degrade our neighborhood and our future.

As it happened, pursuing a curious inquiry is to lead anywhere beyond the laws of this great institution, then I had it right when he said: “At our best, like any artist, we should respond to our vision and feeling, simplicity and directness. With some skill and luck, we may occasion- ally get in touch with that which can move us deeply … the invisible.”

Sadly, the inspiring cartoonist, the winner of decades of awards and the friend I looked to as a guide for my conscience, lost his life in a Mississippi car wreck on June 13. He had been on his way to help high school students in Mississippi find his new cartoon strip, Kudzu. Just two months earlier, he had sent me this e-mail:

“Sam, I remember the Anne Frank brouhaha and stacking chairs with you. It’s the only manual labor I’ve done in twenty years … Consulogical sitting on finding meaningful work. And I mean that — doing work that is meaningful to you is something to be grateful for. I’m proud of you. Doug Marlette”

Doug Marlette was the greatest. He was the least.

I’m Downes has been named director of athletics and recreation. He will begin his duties at Emory on Aug. 13.

Downes comes from Franklin and Marshall College, a member of the Centennial Conference, where he served as the director of athletics and recreation since August 2004. As athletics director, he was responsible for the administration of 27 intercollegiate programs with more than 600 students participating in those varsity sports. In addition, Franklin and Marshall sponsored 11 club sports and intramural programs, with an approximate total of 1,250 participants in those activities.

“Someone who has a great deal of experience and success with Division III athletic programs, Tim is a perfect fit for Emory,” said Senior Vice President and Dean of Campus Life John Foid. Among his many accomplishments at Franklin and Marshall were a number of capital projects that led to the creation of the Brooks Tennis Center, a renovation of the school’s squash facility and the planning and subsequent construction of a new synthetic turf athletic field. Downes played a major role in adding women’s crew as a varsity sport and saw the Diplomats’ women’s lacrosse team capture the 2007 National Collegiate Athletic Association Division III national championship.

“I am very excited to be joining one of the nation’s premier research universities and particularly one that believes in an effective and successful athletic rec-reation program only enhances the educational mission of an institution,” Downes said. “It’s said: ‘In my mind, the Emory program embodies everything that is right and appropriate about college athlet-ics and with the University’s commitment to ensuring that athletics is a vibrant part of the student experience, I’m excited about the possibilities.’ Downes has also served as director of athletics, physical education and recreation at California Institute of Technology, as associate athletic director at Johns Hopkins University, and as assistant executive director for compliance and championships for the Patriot League.

Downes was the first commis-sioner for the Southern California Intercollegiate Athletic Conference. He has served as chair of the NCAA Membership Committee, and is a member of the Jostens’ Trophy National Selection Committee. He is a member of the National Association of Collegiate Directors of Athletics, the National Association of Division III Athletic Administrators, and the Division III Commissioners Association.

Downes attended Dartmouth College, where he earned a B.A. in government and English in 1988. He was a four-year letter winner on the varsity lacrosse team and was named to the All-New England team as a senior. He earned his J.D. from Washington and Lee in 1993 and was admitted to the Maryland State Bar in December 1993. Downes and his wife, Beth, are the parents of a daughter, Kelley, and sons, Andrew and Will.
Karma is mysterious. You just must go on with it,” says Geshe Lobsang Tenzin Negi, describing his journey from a Himalayan hamlet to Atlanta, where he is a senior lecturer in Emory’s Department of Religion and director of the Emory-Tibet Partnership.

Negi was born in the Kinnaur Valley, a district of northern India that borders Tibet. His home village, Ribba, is so remote that it takes a full day, driving along a treacherous mountain road, to reach the nearest town. Monsoon rains and heavy snows close the road for part of the year, cutting the village off completely.

Material goods were scarce during Negi’s childhood, but he was not only much later, after spending many years speaking and studying Buddhism and Tibetan scripture. The Kinnaur Kailash is the different state of mind. It is the indigenous belief that Kailash is the realm of the gods and not suitable for ordinary human beings to walk on. You hear about people trekking parties that spend months trying to get a glimpse of the gods but get so agitated they can’t make it to the peak. Local people believe that this turbulent weather is caused by the guardian spirits of the mountain.

Negi was unfamiliar with modern scientific concepts such as evolution. “When I first heard that people came from monkeys I thought, ‘How can that be?’” he recalls. “But when I got the full explanation, evolution made sense and I have no reason not to believe in it now. I don’t think evolution fully explains life,” he adds. “I’m perfectly comfortable thinking that we’re in a physical evolution, and at the same time, some aspect of our energy is not limited to our physical body.

Buddhist monks are trained through debate and, like good scientists, they are always willing to change their minds when evidence contradicts their beliefs. Negi says, “Buddhism is based on examination and world’s greatest challenges are that monks and scholars should be like goldsmiths. Just as a goldsmith examines a piece of metal by cutting, burning and rubbing it to see if it is gold or not, Buddhist scholars are expected to analyze Buddhist teachings and test their validity for themselves.”

Negi laughs when asked what is more valuable – the rank of Geshe Lharampa from Drepung Loseling Monastery or a Ph.D. from Emory.

“I am what I am because of my monastic education. It’s the way I define my worldview, my greatest identity,” he says. “What I’ve learned at Emory allows me to present Buddhist philosophy in a way that’s more accessible to Western students. Not only that, it gives me another dimension to understand some of the topics I’ve studied in my own tradition. I have a more well-rounded understanding of human nature.”

Emory’s dissertation explored traditional Buddhist and contemporary Western approaches to emotions and the impact on health.

Another unexpected twist in Negi’s life journey was his decision to leave the monkhood. Living in the middle of a modern U.S. city, outside the seclusion of a monastery, made it difficult to maintain his vows, he says. “I fell in love, and I got married two years ago. On one level, it would have been nice to remain a monk for the remainder of my life. But living here, it was not possible. It was the right thing to do to give back my vows.”

His wife, Irene Lee, is executive director of the Drepung Loseling Institute. “I’ve been very fortunate, to have a wife who is so supportive of my work and whose commitments and interests align so well with my own,” Negi says.

The institute recently bought a former Haitian church, located in the Brookhaven neighborhood, to serve as its new consolidated headquarters in Atlanta. The building is being refurbished to resemble a traditional Tibetan temple, including red-and-gold double doors, an elaborately carved and painted portico and golden roofline finials.

Negi remains a valuable resource of Tibetan Buddhism in the Emory-Tibet Partnership. He serves as director of the Emory-Tibet Partnership, a melding of the best of Western and Tibetan Buddhist intellectual traditions, developed from the vision of His Holiness the Dalai Lama and Bobby Paul, dean of Emory College. The Emory-Tibet Science Initiative, which will integrate a comprehensive science curriculum into the traditional studies of Tibetan monks and nuns, is one of the groundbreaking programs of the partnership.

“The goal is to serve humanity in a more balanced way,” Negi says. “Developing a balanced education that integrates heart and intellect, science and spirituality, is a must for the survival of our future generations.”

Their commitments to Emory were recognized with the naming of the school in 1994. “Expanding the physical space for public health will facilitate teaching and scholarship and provide dynamic facilities conducive to building and maintaining key partnerships,” said Michael M.E. Johns, CEO, Woodruff Health Sciences Center, and executive vice president for health affairs. “The ability to collaborate with our local and global public health partners is essential if we are to harness the resources to meet the challenges of global health, predictive health, infectious disease, nutrition, cancer, diabetes, and other chronic diseases,” emphasized Curran.

Since its founding in 1990, the Rollins School of Public Health has become a national leader in public health training and research. The School has tripled the number of students, faculty and research since the doors opened to the first building in 1995. With the newly planned building, the school will add $160,000 square feet of space. A connector between the Garra Rosin Building and the new building will provide easy access between the two.

The new building will provide onsite and virtual educational opportunities as well as enhanced research space. Plans call for a multi-use facility with more laboratory space, technologically sophisticated “smart” classrooms, offices, conference space and an auditorium. Conference capabilities will enhance the development of specialized training, individualized distance learning modules and professional exchange programs dedicated to spreading public health solutions around the globe.
YTI faculty from 1995 to 1996. 2001, and became YTI director 'Life of Faith' finds new meaning "Your personal self is deep-
al weeks immersed in Emory's
program invited Atlanta area
high school seniors participated in
the interfaith day, which has
become an important part of
the program.
YTI is primed for more changes as
Hawkins leaves. Canalis is taking over more of
the financial responsibility for the program, which had
been fully funded by Lilly Endowment Inc.
Beth Corrie will serve
as the incoming director of the program. Canalis
and other health-related quality of life issues. He believes
finding ways to address the needs of the patient and fam-
ily will enhance clinical care and may improve long-term
outcomes.
Emory researchers led by Dr. James Lah are studying
an omega-3 fatty acid called DHA to determine if it can slow
the progression of all stages of this disease. Dr. Lah hopes that by learning more about the role of
DHA in slowing this destructive disease, he can help his
patients find a better quality of life.
Emory is participating in one of the largest Parkinson's
disease clinical trials to determine if the nutritional supple-
ment creatine can slow the progression of symptoms. Dr. Jorge Juncos says if the findings are positive the results
will have a lasting impact in the treatment of all stages of
this illness. His goal is to offer enhanced therapies
to patients with Parkinson's disease that will improve their
quality of life.
In contrast to these who suffer from allergies and
distress at the same time, but you won't find this happening at Emory. A
point to Emory as a national leader fulfilling a promise
on Emory University Hospital's Neuro Intensive Care Unit.
There is no doubt about the importance this holds for
Emory. Everyone talks about slowing down in the summer -
and emotional environment as a tool to facilitate healing.
Principles of evidence-based, patient-centered design — a
new scientific director of the Emory Transplant Center and
the local nonprofit agen-
tions improving patient and family quality of life report-
ments improving patient and family quality of life report-
ed as I used to be, in both my
personal and professional life,
I now trust that the process is the
point of teaching and learning for
that lesson was driven home for
Hawkins three years
to 2002. In August, she plans
to follow her spouse and move
to Indiana to work on a book.
"She is well-known in
Atlanta and the hospital in
New York. And while
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Principles of evidence-based, patient-centered design — a
Participants of Scholarly Inquiry and Research at Emory stand in the kitchen of their summer housing trying to figure out the best way to cook spaghetti sauce. Bella Desai, a junior, suggests that they heat all the ingredients of the sauce in the microwave. This suggestion causes a roar of laughter from everyone in the kitchen. From melted plastic in the oven to burnt bread, the SIRE scholars have had their share of mishaps in the kitchen, but the lab is where they cook up their best work.

The SIRE Summer Research Partner Program and Emory’s Transforming Community Project selected eight undergraduates to research with faculty members on projects involving the humanities and social sciences. SIRE scholars can also choose to work on their own independent project or take summer school classes in conjunction with their faculty mentor’s research. The program aims to create community and a support system for students while they are researching. The undergraduates live together in on-campus housing and have lunch and dinner together once a week. The program also includes a variety of speakers and field trips that take the students behind the scenes of scholarly research.

According to Joanne Brzinski, SIRE director and associate dean for undergraduates, the purpose of the program is to give students the social sciences and humanities an opportunity to work closely with a faculty member as a full-time researcher and to develop research skills. SIRE offers undergraduates an opportunity to participate more fully in meaningful research early on in their academic career and learn firsthand what research is like in their field of study. Rising seniors can incorporate their research into their honors thesis and get a head start in the summer. SIRE programs also run throughout the year and can expand to research abroad.

The focus of current scholars’ projects range from the trans-Atlantic slave trade to the political philosopher Edmund Burke. Courtney Maige, a rising junior in Emory College, is researching the correlation between prenatal stress and later aggression in children with Associate Professor of Psychology Patricia Brennan. Maige is taking summer classes also, so she does not have much down time this summer. Yet Maige is glad she applied for SIRE and all the opportunities it has brought forth to her. “The SIRE program has become a gateway to meet many important people in Emory that I would not have been able to meet before. Now I feel like I have been handed many tools to not only make my research better, but my career at Emory as well,” she said.

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Robert Nadolski

The Carter Center promotes dialogue, education on Palestinian issues

Dialogue that engages all stakeholders in the Israeli and Palestinian peace process is critical to resolve the current crisis according to three Middle East experts who convened at The Carter Center on July 13. The panel also addressed risks of the “West Bank first” policy, which is being promoted by the United States and a few European governments to address the Gaza takeover by Hamas in June.

Panelists included Daniel Levy, former adviser to Israeli Prime Minister Ehud Barak and leader of the Geneva Peace Initiative; Mustapha Barghouthi, former minister of information in the Palestinian National Unity Government; and William Sieghart, founder and chairman of Forward Thinking, an independent UK charity addressing the growing social isolation of Muslim communities in Britain and promoting a more inclusive peace process in the Middle East.

“Yet it’s very easy to demonize people that you never meet,” said Sieghart. “The central problem in this conflict at heart is the vast core of the policy of Israel, the top four or five hundred people who run the country, have never met anyone from Hamas, and none of the Hamas leadership has ever met any Israelis except as their jailer in prison. That is no basis for human dialogue. It’s perfectly plausible for you to engage with people without endorsement of their tactics and their atrocities and bring them to the table.”

Barghouthi expressed that the “West Bank first” policy, which plans to promote confidence-building measures under the leadership of Mahmoud Abbas’ emergency government and further the “West Bank first” policy, is unlikely to create the kind of space in which Al Qaeda look-alikes are going to take root,” he said.

The event was part of The Carter Center’s ongoing efforts to draw attention to critical issues of democratic development and to identify opportunities to promote peace and justice in the Palestinian territories.

CAMPUSNEWS

SIRE students learn art of research and teamwork in summer program

EMORYAPPPOINTMENTS

Nadolski brings expertise to Emory’s emergency preparedness efforts

Public Health and the Georgia Hospital Association. Working in concert with the Veterans Administration in Atlanta and the National Disaster Medical System, he facilitated the distribution of medical personnel and supplies from Hurricanes Katrina and Rita to 32 hospitals and long-term care facilities.

“Bob Nadolski brings a tremendous amount of experience at the intersection of emergency preparedness efforts,” said CEPAR Executive Director Alexander P. Iakovos. “He is a respected community leader and collaborator who will help us carry out our commitment to enhance Emory’s ability to ensure the well-being of individuals here and in the broader community.”

Nadolski has represented emergency medical services and area hospitals on the Georgia Emergency Management Agency’s All Hazards Council and served as the chair for EMS and medical surge capacity planning on the Department of Homeland Security’s Atlanta Urban Area Security Initiative. He has served on various state and regional EMS councils and committees in Mississippi and Georgia. He has been an active participant in local and statewide pandemic flu planning activities.

Working with physicians, nurses and other medical specialists, Nadolski has developed treatment pathways, algorithms and telephone tools used in the pre-hospital environment, nurse counseling and advice centers and chronic disease management programs. He began his career as a paramedic in Worcester, Ma. He received his B.S. degree from Worcester State College in Massachusetts and his para-medical training at Northeastern University.

CARTERCENTER

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The Carter Center also will hold periodic dialogues on a series of critical issues in the conflict, to be available on the Center’s Web site. The discussion is available for viewing at www.cartercenter.org.

The Carter Center has worked with some Egyptian leaders to promote democratic institutions and elections in the occupied Palestinian territories. “Our efforts have been focused on a main goal to build what we hope are the precursors of strong democratic institutions in a future Palestinian state, and see that as being a critical element to ultimately building sustainable peace in the region,” said David Carroll, director of The Center’s Democracy Program.
Winsky's focus on HIV/AIDS prevention

More than a decade ago — before the rise of the Internet — Kate Winskell and her husband were searching for innovative ways to reduce the spread of HIV/AIDS among young Africans. The old ways of trying to stop the spread of the disease — focusing only on medical aspects of the epidemic or relying on educational materials that were not culturally adapted — were clearly limited.

Instead, Winskell and her colleagues launched a new kind of HIV/AIDS communication program known as “Scenarios from Africa,” a series of short films about HIV/AIDS — written solely by young Africans. Scenarios began in three French-speaking West African countries: Senegal, Mali and Burkina Faso. The program has since expanded to reach almost every country in sub-Saharan Africa, said Winskell, assistant director of the Rollins School of Public Health, Health, Culture and Society and visiting assistant professor in Rollins’ Global Health Institute.

Winskell became acutely aware of the urgent need to stop the spread of HIV/AIDS among young Africans during her first visit to the continent in 1996 as part of a research project. Recognizing the key role communication could play in combating AIDS, she decided to forego medical school to focus her efforts on community development, about which she feels passionate.

While working with the young people to develop their scripts, “The person doesn’t need to reveal their HIV/AIDS status, but it’s very empowering for them to be involved in those education efforts,” she said.

Research by Weeks and his collaborators recently yielded another clue to the glass puzzle, demonstrating that, unlike liquids, glasses aren’t comfortable in confined spaces. Their findings are reported in the paper “Colloidal glass transition observed in confinement,” published on July 13 by Physical Review Letters.

Weeks has devoted his career to probing the mysteries of substances that cannot be pinned down as a solid or liquid. “It’s sort of an interesting puzzle,” Weeks said. “Glass is a lot like a solid. But it’s not a solid for the same reason everything else is a solid. At least physicists don’t think so.”

When most people look at a window, they see panes of glass. Associate Professor of Physics Eric Weeks, however, sees questions: Is glass a solid, or merely an extremely slowing-moving liquid? What is the molecular process that causes molten glass to change from a free-flowing form to a fixed shape? Does the behavior of glassy substances change when they are confined to a tiny space?

“Once you start thinking about these things, atoms are just a tiny part of your hard drive. You’re looking at these aspects of life from a different perspective,” Weeks said. “That may mean first-time users are not really sure what they might be doing with the different programs on their computers. That may be some hidden structure that could get more people interested in these movies.”

Associate Professor of Physics Eric Weeks has devoted his career to probing the mysteries of substances that cannot be pinned down as a solid or liquid.

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By Robin Tricole

Emory Report

Physicists open new window on glass

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Research by Weeks and his collaborators recently yielded another clue to the glass puzzle, demonstrating that, unlike liquids, glasses aren’t comfortable in confined spaces. Their findings are reported in the paper “Colloidal glass transition observed in confinement,” published on July 13 by Physical Review Letters.

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Emory College pilot project shows how cutting energy equals big savings

BY KELLY GRAY

I n 2006, with Emory spending nearly $30 million on energy costs, the University called upon its leaders in facilities management and the Office of Sustainability Initiatives to propose a solution on how to greatly reduce energy costs in the coming years. Part of Emory’s Sustainability Initiative includes a reduction of the average energy use on campus by 25 percent by 2015 (based on December 2003 levels). How will Emory meet this goal? In part, Emory College has incorporated a building heating, ventilation and air conditioning shutdown pilot project where the HVAC systems in targeted buildings are shut off from midnight to 6 a.m. daily. Candler Library was the first of the HVAC system shutdowns in June 2006. The original plan called for the energy shutdown to only include two floors of the library, with tenants being notified through posters placed in the lobby.

After careful consideration, the decision was made to completely shut down the HVAC systems in Candler Library during off hours,” said Nancy Bayly, associate director for capital projects for Emory College. “There have been no adverse effects on the books or any of the equipment in the building.” In the success of the Candler Library HVAC system shutdown, six additional buildings have been included in the energy shutdowns. “Emory is being responsible by ensuring all new buildings receive LEED certification as ‘green buildings,’ but we wanted to look at what we could do to save more energy in some of our older buildings,” said Bayly. “With a total of seven buildings having their HVAC systems shut down, we are projecting to save at least $500,000 on our total energy cost this year.” Emory is continuing to explore the options of extending the hours of the building energy shutdowns in evenings and on weekends. During the building power shutdown in summer months, if the internal temperature of a building reaches 85 degrees, the air conditioning unit will automatically start. Equally, during the building energy shutdown in winter months, if the internal temperature of a building drops to 50 degrees, the heat will be involuntarily activated.

CHALLENGE & CHAMPIONS

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The children, who come from a broad range of backgrounds, are also learning another important lesson: that college is possible. “We wanted to really enforce the fact that everybody has the opportunity to come here,” said Falkenberg, who has led efforts to enhance the program’s accessibility. Whether it was providing transportation, financial aid, making lunches, or hiring counselors who speak Spanish, “we thought about ways to reduce barriers to have kids experience life on a college campus,” Falkenberg said. This year’s student body included several children from homeless shelters, and Professor Vaila Hartfield-Mendez was instrumental in leading the support for the inclusion of more Hispanic children.

Camp counselors — Emory undergraduates who help with camp logistics — also act as mentors, Falkenberg said. “Counselors know that playing Uno by the pool with the children, for instance, provides an opportunity for these undergraduates to talk about college, to get students thinking about what it is like to go to college, and to show them that it is interesting, fun — and approachable.” To this end, Simona Perales, an Emory admissions officer, spoke with the children about ways to prepare for college. It is never too early, said Falkenberg, who noted, “Middle school is a very important time to start thinking about those choices.”

Early adolescence is also a time of rapid cognitive, social and physical exploration and growth, which is why effective teachers like those on the staff are essential to inspiring both students and teachers-in-training, said Falkenberg. She attributed another important lesson: that another important lesson: that going to college, and to show them that it is interesting, fun — and approachable.” To this end, Simona Perales, an Emory admissions officer, spoke with the children about ways to prepare for college. It is never too early, said Falkenberg, who noted, “Middle school is a very important time to start thinking about those choices.”

CAMPUS SERVICES

Clever construction helps Emory save water

F rom drinking, flushing and washing, to laboratory experiments, irrigation and steam production, Emory consumes approximately 450 million gallons of water each year. Emory and Campus Services have implemented several measures to conserve water which are incorporated into our design and construction standards.

• Recovery and Recycling of condensate water from HVAC systems: Large amounts of condensation form on the cooling coils of the massive air conditioning units designed to cool our campus buildings. Emory has implemented a method to recover and recycle this condensation, which has multiple benefits. First, the act of recycling means that Energy is able to purchase less water from the county. Second, it minimizes the number of times that the water is filtered through a treatment facility, which burns energy. Third, it reduces the amount of water lost to evaporation. And finally, it decreases the volume of water shipped from the Chattahoochee River.

Emory has measured the volume of condensation recovered from Whitehead Biomedical Research Building and Emory Pediatrics Building at about 4.7 million and 2.5 million gallons of condensation per year, respectively.

• Landscape irrigation: Irrigation systems have been laid in zones, which enables the city to schedule watering at different times. Emory has shut off the irrigation used to water the shrub beds that were planted three or more years ago. By now their roots should be established and able to handle drought conditions. Irrigation to these areas will resume if the plants begin to suffer. Turf is not as hearty and watering in these zones will continue.

The Emory Exterior Services department can track our savings in water use on irrigation meters.

Additionally, landscaping is usually figured into a capital project’s scope and installed soon after the building’s completion. With all the construction and roads being realigned around campus, this would result in new turf, shrubs, trees and other plant life that would require constant watering. However, with the ongoing drought, although newly planted landscaping is exempt from watering restrictions for the first 30 days, we have decided to plant only minimally in these areas so as to avoid the need for intensive watering. Emory closely adheres to county watering restrictions.

Underground cisterns have been installed during more recent construction projects, which collect rainwater for use in irrigation. However, not all areas of campus are equipped with this resource. Emory’s design standards have been updated to include cisterns whenever possible.

• Automatic faucets, low-flow showers and toilets: With the level of water consumption activity on campus, saving water is achievable through low-flow plumbing devices. Conventional toilets run at about 7 gallons per flush but newer technology can save almost 5.5 GPF. Low-flow toilets and shower heads also are being installed and used around campus.

Automatic faucets help to reduce the amount of water used. When shutting off the water supply by the pool, turning off the faucets around campus that do not already have automatic faucets will be upgraded to this technology. If your building does not yet have automatic faucets, be sure to turn the water on/off as needed rather than letting the faucet run.

• Steam trap reparation: Steam is used for a variety of purposes: heat, hot water, sterilization via autoclaves, etc. Steam traps are required in order to ensure that the steam lines between buildings and the plant operate properly. As traps become worn, leaks occur resulting in a loss of steam, which is produced using a combination of all utilities (gas, electricity and water). Thus, energy is wasted. Emory has invested the money in the steam traps in Emory’s steam system. While it only can be estimated how much steam is lost at each of these varying sizes of traps, a loss as small as 1% of produced steam costs the University approximately $130,000 per year. Staff in Emory’s Steam Plant analyze, identify and repair traps on a regular, as-needed basis.

• Campus casing for leaks: As maintenance and custodial staffs of the campus inspect the campus, they find some leaks. For example, some leaks can be mechanical rooms and custodial closets, parts of their routine includes watching for leaks in potable, chilled and sewage lines. They also look for signs that some faucets or running toilets. You can help by keeping an eye and ear out for leaks and by notifying a representative of Campus Services.

Barbara Hudson is manager of training and communications for Campus Services.
Faculty performances, David Dorfman highlight dance season

In 2007-08 the Emory Dance Program offers one of its busiest performance seasons in its history. It includes three faculty-organized dance concerts, two Emory Dance Company concerts, an Emory Coca-Cola Artist Residency and Candler Series performance by New York's David Dorfman Dance Company, a dance and film special event, two Friends of Dance Lectures, and the annual Women's History Month Dance Presentation. Due to the popularity of Emory Dance events, organizers suggest purchasing performance tickets when sales begin. For employees, student and friends of the Arts discount tickets, call 404-727-5050 or visit the Schwartz Center's box office (open Mon.-Fri., 10 a.m.-6 p.m.) beginning Sept. 5. Tickets go on sale to the public Sept. 7.

“Dancers, Music, and Light!” leads off the season Sept. 6-8 at 8 p.m. and Sept. 8 at 2 p.m. The general public can purchase tickets for the Sept. 6 event at the door. Dance faculty members Gregory Catellier and George Staib present their second joint venture featuring seven new dances performed by Atlanta area professionals. These works explore a wide range of subjects, but will share a common focus of visual musicality and visceral connectivity. Dance Studio, Schwartz Center; $12, $6 for Emory employees and students.

“People Like Us: A Choreographic Reflection,” a retrospective of dance choreography by Dance Program Director and Associate Professor Sally Radell, is Sept. 27-29 at 8 p.m. Radell’s retrospective explores themes that run through five of the more than 60 works she has choreographed in the past 30 years. Faculty, student and Atlanta-area professional dancers perform works that often incorporate humor to reveal Radell’s fascination with the influence of everyday ritual and pop culture on each other and the human condition. The concert includes spoken text, props and original musical scores by Klimchak and Kendall Simpson. It features a film/dance collaboration with filmmaker and Emory Visual Arts Program Director William Brown that juxtaposes the anxieties of navigating Atlanta roads with life’s greater priorities, and incorporates a fleet of radio-controlled cars.

This concert is funded in part by a grant from the University Research Committee at Emory. Dance Studio, Schwartz Center; $10, $6 for Emory students and employees.

The Emory Dance Company Fall Concert, Nov. 15-17 at 8 p.m. and Nov. 17 at 2 p.m., will feature choreography by Emory dance faculty and guest artists including David Dorfman, and will be performed by students of the Emory Dance Company. Dance Studio, Schwartz Center; $10, $6 for Emory students and employees.

Co-sponsored by Several Dancers Core, each fall and spring semester Emory hosts Fieldwork Showcase, an evening of new works created by community artists in various disciplines. Fall and spring showcases are Dec. 9 at 5 p.m. and May 4 at 5 p.m. Dance Studio, Schwartz Center; $7 tickets available only at door. The final Faculty Dance Concert of the season is Jan. 24-26 at 8 p.m. Details of the third collaboration by Gregory Catellier and George Staib will be announced in late fall. Performing Arts Studio, 1804 N. Decatur Rd; $12; $6 Emory students and employees.

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“Dance for Reel: An Evening of Dance on Camera” on Jan. 31 at 7:30 p.m. is a thought-provoking intersection of film and contemporary dance works from the Dance Films Association. This event is organized by Blake Beckham ’01C and co-sponsored by the Dance and Visual Arts Programs. Call 404-727-5050 for location; free.

This year’s visiting dance company, David Dorfman Dance, performs March 20-22 at 8 p.m. and March 22 at 2 p.m. with additional residency events at Emory and performances at the Rialto Center for the Arts at Georgia State University. Since its founding in 1985, David Dorfman Dance has been celebrated for its exuberant, gorgeous and “delightfully offbeat” style, and its unique collaborations with contemporary composers and visual artists over its 20 year history. The company honors include seven New York Dance and Performance Awards, known as the Bessie’s. Dance Studio, Schwartz Center; $20, $15 Emory employees and discount category members; $5 Emory students. This season’s Women’s History Month Dance Presentation on March 25 will offer compelling works celebrating women’s history. Noon, Michael C. Carlos Museum; free.

The season concludes with new choreography and dance by students in the Emory Dance Company Spring Concert, April 24-26 at 8 p.m. and April 26 at 2 p.m. Dance Studio, Schwartz Center, $8; $4 Emory students and employees.

---Sally Corbett