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Times

A publication for faculty, staff, and friends of the University of South Carolina



November 4, 2010

Columbia

Aiken

Beaufort

Lancaster

Salkehatchie

Sumter

Union

Upstate

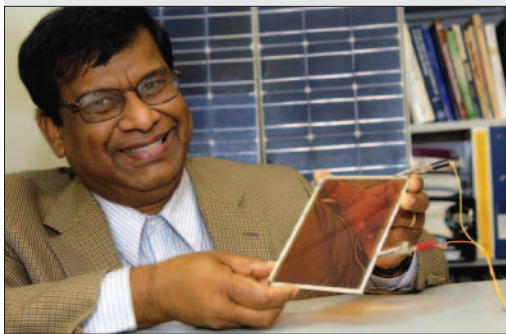
Bright idea

Electrical engineering professor wins award for his solar panel research

By Chris Horn

If someone found a way to dramatically improve the efficiency of solar panels—not just new panels but those already operational around the world—venture capitalists would soon start lining up to invest.

That's what the U.S. Department of Defense has done for Krishna Mandal, an associate professor of electrical engineering at USC who has received a \$300,000 DARPA Young Faculty Award to carry out his nano-



Electrical engineering professor Krishna Mandal holds a small plate of film that can increase the efficiency of a solar cell panel.

Kim Truett

technology research to improve solar cell efficiency. Mandal was one of only 33 scientists from

24 universities to receive the award, an accomplishment noted by interim engineering and computing dean Harry Ploehn and Provost Michael Amiridis. The awards are given to promote strategic technology and transformational approaches to science.

"Solar panels—even so-called third-generation technologies that use the latest materials—are not very efficient at converting light to energy because they can't use the whole spectrum of visible light," said Mandal, who worked in private industry for 18 years before joining the College of Engineering and Computing last year.

"My idea is to use quantum-cutting nanomaterials that can capture much more of the visible light spectrum and enable solar cells to operate far more efficiently."

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Carolina

HOMECOMING 2010

UNIVERSITY OF SOUTH CAROLINA
NOVEMBER 4-6, 2010

Go 'Crazy for Carolina'

"Crazy for Carolina" is the theme for Homecoming 2010, and activities are planned for Nov. 4-7.

The annual Cockfest Pep Rally will be held at 7 p.m. Nov. 4 on Greene Street. The event is free and open to the public and will feature the Carolina Band, cheerleaders, and coaches.

A Razorback Roast, a traditional pig roast with barbecue, will follow at 7:30 p.m. on Davis Field.

The Homecoming Parade will wind through campus beginning at 3 p.m. Nov. 5. The parade will start at the Facilities Center at Greene and Gadsden streets and continue on Greene Street. The parade will turn left on to Pickens street, left on to Pendleton Street, left again on to Sumter Street, and right on Greene Street. The parade route will end back at the Facilities Management Center.

A Step Show will be held at 8 p.m. Nov. 5 in the Carolina Coliseum. Doors open at 7 p.m. Admission is free for Carolina faculty, staff, and students with a Carolina Card and \$5 for the public. The Step Show features the NPHC Greek organizations on campus. Past participants have included Alpha Phi Alpha Fraternity Inc., Iota Phi Theta Fraternity Inc., Omega Psi Phi Fraternity Inc., Alpha Kappa Alpha Sorority Inc., Delta Sigma Theta

Sorority Inc., Sigma Gamma Rho Sorority Inc., and Zeta Phi Beta Sorority Inc.

The Carolina Alumni Homecoming Celebration and Awards Gala is set for 6:30 p.m. Nov. 5 at the Columbia Metropolitan Convention Center. The event, with food and dancing, will kick off Homecoming weekend. Tickets are \$39 each.

A Game Day Celebration for alumni and friends will be held at the National Guard Armory. The party will include food and music from the Fabulous Kays. Tickets are \$15 for adults and \$8 for children 10 and under. The celebration will begin three hours before the kickoff of the football game with Arkansas, which is scheduled for 7 p.m. in Williams-Brice Stadium.

The Black Alumni Council Tailgate Party will begin two hours before kickoff at Bernie's on Bluff Road and will include tailgate food and music. All-you-can-eat food and drinks will be available for \$10, and MyCarolina prizes will be given out during the event.

For a complete list of Homecoming activities, including events for colleges and schools, go to homecoming.sc.edu/, send an e-mail to sahc@mailbox.sc.edu, or call 7-2654.

Distance ed, international collaboration top concerns for new vice provosts

By Chris Horn

University activities as broad as distance education and international collaboration—and as specific as the allocation of facilities space on campus—are getting significant attention these days from two new vice provosts.

Lacy Ford and Tim Douppnik were appointed late this summer and have begun in earnest their assessments that will likely lead to significant programmatic changes in the years ahead in distance education and international activities, respectively.

"These are both long-serving faculty members with great track records in research, education, and service, and both have administrative experience that will come in handy as they assess and lead improvements in their respective areas," Provost Michael Amiridis said. "We had a great pool of applicants [for the two vice provost positions] to choose from to improve distance education and international collaborations."

Douppnik, a former accounting department chair, has taught on a visiting basis at a number of international universities, taught in the Moore School of Business International MBA program for 25 years, and helped create the school's joint degree program in Vienna. He's now gathering information on the University's international collaborations, looking specifically at teaching, research, and student exchange opportunities that can be expanded or leveraged.

"The College of Engineering and Computing is considering a relationship with a university in Mexico that the Moore School already has been collaborating with," Douppnik said. "Are there more opportunities like that? I'm trying to see if those kinds of potential synergies exist with other colleges and programs. There's not a lot of coordination across the University right now in this area."

Douppnik is also chairing a new subcommittee—Space Needs and Planning (SNAP)—of the University's Capital Planning Committee. SNAP will become the central contact point for space requests across the University.

"SNAP includes representatives from the registrar's office, the Council of Academic Deans, the faculty, the research office, and the facilities office," he said. "We already have eight requests on the docket, and eventually



Ford



Douppnik

USC flexes its strength in environmental research

By Chris Horn

USC's strength in environmental sciences research has been growing for the past several years, and in the latest report by the National Science Foundation, the University ranks in the top 20 nationwide.

Using the latest available data, the NSF annually compiles research and development expenditures for 435 colleges and universities in a variety of research categories. The funding tallies, which lag by two fiscal years, include grants and awards from public and private funding sources.

"The latest figures are from FY2008 and show that USC had \$36.6 million in environmental science research expenditures, which places us at No. 19 in the country," said Bob Thunell, director of the School of Earth, Ocean, and Environment in the College of Arts and Sciences. "We were No. 21 in 2007 and No. 23 in 2006, so we've been on an upward trend for a while now."

USC's ranking in the NSF report puts it ahead of many well-known institutions, including Harvard (No. 32, \$24.9 million); UNC Chapel Hill (No. 34, \$23.3 million); and Georgia Tech (No. 45, \$16.1 million).

"The NSF report validates what we've known as a University for some time: environmental sciences are one of our key research strengths," said Steve Kresovich, USC's vice president for research and graduate education. "I commend the many faculty who have been so productive in their research efforts, and I look forward to helping the University to press its



Thunell

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Briefly

USC PRESS SETS FALL BOOK SALE: The USC Press will hold its fall book sale Nov. 16–18 in the second floor lobby of the Russell House on Greene Street. Sale hours are 10 a.m. to 6 p.m. Nov. 16, 9 a.m. to 5 p.m. Nov. 17, and 9 a.m. to 2 p.m. Nov. 18. The sale will feature 20 percent off select new and bestselling USC Press books. Damaged and overstocked books will be available for \$10 each for hard covers and \$5 each for paperbacks (limited quantities). For more information, call 7-5029 or go to uscpress.com. Directions to the Russell House are at sa.sc.edu/rhuu/directions.htm.

PARTICIPANTS NEEDED FOR AGING STUDY:

The University is recruiting adults who are 60 and older for a study on age-related changes in mobility and patterns of brain activity. Maintaining mobility and brain health are essential for older adults for an independent lifestyle. Results of this study will provide a foundation for future research on brain health and its contribution to mobility and the development of new and better interventions for preventing age-related declines. Study participants will be required to attend two evaluation sessions. In these sessions, participants will complete the following: Session A, a simple scales and surveys and an easy mobility task, and Session B, a simple task that involves connecting letters and numbers while a functional fMRI (magnetic resonance imaging) is done to help to describe the brain activity that occurs while the task is being completed. Each session will last approximately one hour. Participants will receive a CD with the results of their scans. For more information, contact Gerhild Ullmann at ullmann@sc.edu or 760-2900.

AIKEN HONOR SOCIETY INDUCTS FACULTY:

USC Aiken's Epsilon Upsilon chapter of Sigma Tau Delta, the International English Honor Society, inducted two new faculty members, Amanda Warren and David Bruzina. Founded in 1986, Aiken's chapter of Sigma Tau Delta is devoted to the celebration of the complexity and richness of the English language and its literatures. In particular, the group supports a campus scholarship by selling books at all events related to the Oswald Distinguished Writers Series and provides volunteer help at the annual Aiken County Language Arts Festival.

WUSC SPONSORS FALL FUNDRAISER:

WUSC, the University's student-run radio station, will hold its annual fall fundraiser through Nov. 6. Donors can call the station from noon to midnight at 576-9872 or donate online at any time at www.wusc.sc.edu. Donations will help the station start a second HD Web stream, meet yearly budget requirements, and sponsor events and shows. Donors will receive gifts, including a T-shirt, hoodie, messenger bag, pizza cutter, or pen, depending on the amount given. For more information, call 7-7172 or send an e-mail to sawusca@mailbox.sc.edu.

FILM EXPLORES HISTORY OF JEWS IN FRANCE:

The film *Comme un Juif en France*, sponsored by the USC Jewish Studies Program, will be shown at 7 p.m. Nov. 8 in the Moore School of Business, Belk Auditorium. Federica Clementi, an assistant professor of Jewish Studies at USC, will lead a discussion following the film. Yves Jeuland's documentary, illustrated with rare photographs, film clips, and memorable music, explores the history of Jews in France, the first country to grant Jews citizenship. The film investigates the relationship that French Jews have had with France and, in turn, the ways in which French society has dealt with its Jewish population over the course of history.

INTERNATIONAL EDUCATION WEEK IS

NOV. 15–19: International Education Week, nationally designated for Nov. 15–19, will highlight the global dimension of university communities and will be celebrated on college campuses across the United States with cultural programs, seminars, workshops, and artistic expression. At USC, a full week of activities will take place Nov. 15–22, coordinated by the Department of International Programs. The purpose of the week is to expand offerings and increase awareness of the wealth of international activities available to students at USC. For more information, contact Hanne van der Iest, international programs intern, at 7-1228 or vanderih@sc.edu.

EVENTS SCHEDULED FOR PRE-LAW STUDENTS:

Several events are planned for pre-law students in November. A Law Fair will be held from 9 a.m. to noon Nov. 5 in the Russell House Lobby. More than 55 law schools from around the country will send representatives to speak with students about opportunities and admissions. A mock admission workshop will be held from 6 to 7:30 p.m. Nov. 11 in the Russell House, Room 205. John Benfield, associate dean for admissions at the Charleston Law School, will be at USC for a Mock Admissions workshop to help students understand the admissions process "on the other side of the table" and what they need to be a competitive applicant for law school. The event is an opportunity for students to learn what admissions counselors look for in students and how they make their acceptance decisions.

HABLA celebrates 10th anniversary

The Hispanic Assistance and Bilingual Access Project, commonly known as HABLA, recently celebrated its 10-year anniversary.

The telephonic Spanish-English interpretation call center is operated by the Center for Child and Family Studies in the College of Social Work under a contract with the S.C. Department of Social Services (DSS). HABLA facilitates communication between DSS workers and their Spanish-speaking clients with limited English proficiency while meeting the need for sensitivity, confidentiality, and immediacy.

HABLA has grown from a staff of two USC Peace Corps Fellows and their supervisor to a full staff of 18 bilingual graduate students and community interpreters who staff six telephone lines offering services from 8 a.m. to 5 p.m. during the week. HABLA also provides translation services for DSS correspondence and other materials including forms, court documents, brochures, and books.

As part of the Community Initiatives Division, the center

provides testing and training for bilingual employees and people who wish to provide interpreter services under contract with DSS and the Department of Health and Environmental Control.

The HABLA program celebrated its anniversary on Sept. 15, the kickoff of Hispanic Heritage Month, with a potluck luncheon for the staff. HABLA staff members provided musical entertainment as part of the cultural celebration.

The founders of HABLA, including Bo Galliher, Don Rosick, and Carl Maas, attended an anniversary celebration. Wendy Campbell, also a founding member, was unable to attend but commented on the importance of HABLA.

"The heart of HABLA lies in the hundreds of graduate students from the Peace Corps and all over the world who have given so much of themselves to this program," she said. "In my opinion, HABLA is one of the best-kept secrets in South Carolina of the power of multicultural and multidisciplinary collaboration."



Michael Brown

Four times the love

Stephanie Miller, right, the fiscal technician for the business office in University Housing, is all smiles after cutting off her 14-inch ponytail for the fourth time. Locks of Love is a public nonprofit organization that provides hairpieces to financially disadvantaged children in the United States and Canada under age 21 who are suffering from long-term medical hair loss from any diagnosis. Miller, who said her hair grows about an inch a month, has been sharing her locks since she was a child. "It's a great cause," she said "I'm glad I can help out." Gwendolyn (Wanda) Davis of Carolina Styles on the third floor of the Russell House did the shearing honors. For more information, go to www.locksoflove.org.

Upstate health program receives accreditation

The Health Information Management (HIM) program at USC Upstate has received accreditation by the Commission on Accreditation for Health Informatics and Information Management Education (CAHIIM), making it the only accredited four-year program of its kind in South Carolina and one of about 50 such programs in the United States.

"A four-year degree and certification is necessary for career advancement in this field, and South Carolina has been hemorrhaging qualified graduates from the state's accredited two-year programs for a number of years," said Ron Fulbright, chair of the Department of Informatics at Upstate. "The state's health care industry has been hiring people from other parts of the country over and above our own residents because we have lacked the capability to produce our own certified professionals. This accreditation is a large step forward for South Carolina."

The HIM program prepares graduates for careers in the records management field, particularly in the areas of insurance coding and health informatics. Graduates of the program receive the bachelor of arts in information management and systems and are eligible to take the exam for the Registered Health Information Administrator (RHIA), which is an important professional certification in the field. The HIM program offered at Upstate is a "completion program," which means that students must have graduated from an accredited two-year program and must have achieved the Registered Health Information Technician (RHIT) certification or be able to acquire the RHIT soon after being accepted into the program.

For more information, go to www.uscupstate.edu/informatics and follow the link to Health Information Management.

Aiken students provide Katrina relief

Fifty USC Aiken students and two staff members traveled to New Orleans during fall break to assist people who were affected by Hurricane Katrina five years ago. The group spent three days building houses with Habitat for Humanity in New Orleans East.

The group also toured the Lower Ninth Ward and saw the Katrina Memorial and some of the levees that broke immediately following the hurricane, said Angel Miano, associate director of student involvement at USC Aiken.

This is the fifth year that USC Aiken has taken the trip, visiting the hard-hit areas of New Orleans first in 2006, just after the first anniversary of Hurricane Katrina. All of the trips have been during USC Aiken's fall break.

Civility lectures continue

The University's public lecture series on civil discourse will continue with two events in November. The lectures are:

■ 7 p.m. Nov. 17, "Educating for Civic Empowerment," featuring Meira Levinson, assistant professor of education at Harvard University, School of Law Auditorium.

■ 7 p.m. Nov. 22, "The Responsibility of Public Journalism," featuring Charles Bierbauer, dean of USC's College of Mass Communication and Information Studies, Gressette Room, Harper College.

The intent of the series is to offer thought-provoking lectures that encourage the community to think about the importance of, and problems with, civil discourse and how these problems can be resolved.

The lecture series runs in conjunction with a University 201 class, "Civility in the Public Sphere," taught by philosophy professor Christopher Tollefsen. The class addresses the notion of civility in public conversation on issues such as health care and immigration reform to debates over war, abortion, and the proper role of government in Americans' personal lives.

President Pastides launched the University's Civil Discourse Initiative last fall. For more information, go to http://president.sc.edu/Civil_Discourse/.

Sign up to present at leadership and diversity conference

The deadline to submit proposals for educational sessions at the 25th-annual Student Leadership and Diversity Conference (SLDC) is Nov. 22.

The SLDC will be held from 9 a.m. to 4:30 p.m. Feb. 5, 2011. The event is a regional conference featuring two keynote speakers and workshop sessions throughout the day.

The core-competencies to be emphasized at this year's conference include leadership development, diversity education, and organizations and training. Workshop proposal submissions can be submitted online. For more information and to submit a proposal, go to www.sa.sc.edu/sldc. The SLDC is sponsored by Leadership Programs and the Office of Multicultural Student Affairs, Department of Student Life.

For more information, contact Stefanie DiDomenico, program advisor, Leadership Programs and Women Student Services, at sdidomenico@sc.edu or 7-8165.



The Harman clan in 1975 with, from left, Charley, Muffy, Rachael, Allen "Ab" Harman and his wife, Sarah, Anne, Sej, Lind, and Bob.

Harman clan has multiple strong ties to the University

Plenty of families have multiple professional connections to Carolina, but Columbia's Harman clan can boast of one of the most extensive.

The late Allen Harman and his wife, Sarah, both earned degrees from and worked for the University, and watched proudly as nearly half of their seven children graduated from Carolina, too. All seven offspring have also worked at Carolina at one time or another.

"I started working here in 1977 as a student, and I've been working for USC professionally since 1983," said Bob Harman, the youngest son who is now director of custodial services for University Housing. He earned his bachelor's and master's degrees here in 1982 and 1993. Lind Harman Jackson works in Campus Planning and Construction as the contract administrator, and Sej Harman, who took several graduate courses at USC, recently retired as the student services coordinator for the College of Hospitality, Retail, and Sport Management after more than 32 years at Carolina.

Muffy Harman worked in the admissions office while attending the University in 1970-71. She worked for Harry Varney, who later was dean of HRSM and Sej's boss. Charley Harman earned an accounting degree in 1977 and assisted the coliseum director while he was a student. Rachael Harman's connection was through a company that contracted with the University in the late 1970s to repair parking lots across campus.

Anne Harman continued the tradition, graduating in 1972 and working in the dean's office in the School of Medicine in 1991. She met her future husband, Richard Hoppmann, who is now dean of the medical school, while both were undergraduates. The Hoppmann children are Carolina graduates, too. Emily, a veterinarian, is a pre-professional advisor at USC; Karla is a current graduate student in social work/public health, and Nicholas is in his second year in the School of Medicine.

Allen Harman, the family patriarch, earned a law degree from the University, was instrumental in establishing the criminal justice program, and taught political science. His wife, Sarah, earned her master's degree from Carolina and took various courses throughout her Carolina years and even after retirement. She began working in the former counseling bureau and taught continuing education courses and University 101, finishing her 23-year career in the admissions office. She maintains a lively interest in all things Carolina and is quite proud of her children and their Carolina connections.

The Harman family established a scholarship in honor of Allen Harman, who died in 1993, to continue his legacy through support of future scholars.

"I guess garnet runs in our veins," Bob said. No arguing that!

■ Building and Grounds Committee

Several campus projects move forward

Several USC Columbia renovation and construction projects moved closer to fruition with the second stage of approval from the Board of Trustees' Buildings and Grounds Committee at its Oct. 8 meeting. The projects include:

- renovations to the Booker T. Washington auditorium, funded largely by a private gift, which will add air conditioning and other infrastructure upgrades, including an exhibit/learning center that documents the historic facility and neighborhood. The auditorium is the lone remaining facility from Booker T. Washington High School, built in 1916; the donor is an alumnus of the school. The surrounding building houses TRIO programs and theater/dance labs.

- the Darla Moore School of Business' new 250,000-square-foot facility, to be located beside the Carolina Coliseum on the southwest corner of Greene and Assembly streets. The School of Music will supply \$1.5 million to upfit a planned 500-seat auditorium, which will allow joint use for music performances and instruction. Thirty-five percent of the time/space use in the new building will be non-business school related. Debt service for the \$91.5 million facility will come from lease payments from the Department of Justice for its use of the current BA Building, private gifts, and institutional bonds.

- Renovations and redevelopment of the former state farmer's market property on Bluff Road, beside the Williams-Brice Stadium, will provide parking for up to 3,000 vehicles. About 650 trees will be planted on the 52-acre site, and decorative fencing and lighting will be installed. Athletics revenue bonds will cover the \$15.5 million cost of the project, estimated for completion by August 2012.

- installation of a new fire alarm system in Coker Life Sciences and Earth and Water Sciences buildings. The \$850,000 project is expected to be complete by October 2011.

- two chiller units will be replaced at the School of Medicine campus by December 2011.

In addition, trustees received brief information about the potential acquisition of 29 acres on Assembly Street surrounding the former Columbia Bombers baseball stadium. The land and accompanying buildings are owned by SCANA; the University's Development Foundation is in discussion with the utility holding company to acquire the property, which could be used for the University's maintenance facilities, motor pool, recreation fields, and University law enforcement.

Modifications to USC Columbia's campus master plan are underway with the architectural firm of Sasaki & Associates in Boston. The plan is expected to be complete before the end of the year.

RCCF faculty hit funding stride netting \$12 million for research

By Chris Horn

Faculty members in USC's Research Consortium on Children and Families have landed more than \$12 million in research funding in the past year, including several first-time grants for junior faculty.

In the past three years, the consortium's faculty associates have submitted 308 grant applications and garnered \$35 million in sponsored awards.

RCCF was formed in 2003 by the Office of Research and Graduate Education and through seminars, mentoring, and other collaborative opportunities has fostered grant-writing success for many of its 58 faculty members who hail from seven colleges within the University.

"New investigators have a steep hill to climb to get funded, and it really says something about what the RCCF has done to help new researchers when you look at their success," said Dawn Wilson, a psychology professor and one of four members of RCCF's executive committee.

"Unlike a formal institute or center with a narrower focus, RCCF takes a wide interdisciplinary view. We bring in consultants with broad expertise on population studies, statistics, or methodology—topics that apply to almost everyone's research regarding children and families—and we open those sessions up to the whole campus," said Ron Prinz, a psychology professor who also serves on the consortium's executive committee with law professor Libba Patterson and epidemiology professor Robert McKeown.

"Early career investigators benefit from this, but more seasoned faculty do, as well, because they're able to meet people with similar research interests from other disciplines."

In the past, RCCF has provided 31 competitive pilot-funding grants of which 91 percent have resulted in submission of extramural funding grant applications and 40 percent have achieved external funding.

Recently funded research projects by RCCF faculty members include:

- a one-year \$181,000 grant from the Eunice Kennedy Shriver National Institute for Child Health and Human Development/National Institutes of Health for co-principal investigators Jihong Liu, an assistant professor in epidemiology and biostatistics, and Sara Wilcox, a professor in exercise science. The project will design and pilot test a lifestyle intervention to prevent excessive weight gain during pregnancy and promote weight loss in the early postpartum period among African American and low-income women who enter pregnancy overweight or obese. Liu's research has implications for improving pregnancy outcomes for this high-risk population. Her research, which involves collaboration with faculty in the Department of Obstetrics and Gynecology in the School of Medicine, is also looking at the gestational and early life risk factors for childhood obesity, which include mother's health status during pregnancy, birth weight, and infant diet.

- two grants—a one-year, \$40,000 award from the National Institute of Justice (NIJ) and a three-year, \$520,000 award from the National Institute on Drug Abuse (NIDA)—for co-principal investigators Abby Fagan and Emily Wright in the Department of Criminology and Criminal Justice to study the exposure effects of intimate partner violence on children and exposure to neighborhood violence. Both projects involve analysis of secondary data gathered from different neighborhoods in Chicago and both focus on juvenile abuse of drugs as a result of exposure to violence. A three-year, \$650,000 award from the Kresge Foundation to Darcy Freedman and Ronald Pitner in the College of Social Work will allow them to study community-based crime prevention and safety efforts in public housing neighborhoods in Columbia. The project includes collaboration with faculty in the College of Mass Communications and Information Studies, the Department of Criminology and Criminal Justice, and the College of Arts and Sciences.

- a nearly \$500,000 grant from the Bureau of Justice Assistance for co-principal investigator Dana DeHart of the Center for Child and Family Studies to examine women's pathways to jail. DeHart is collaborating with faculty from three other universities across the country on that project and is also the institutional principal investigator for a project on development of a typology of offenders in Internet crimes against children.

"These grants show off the beauty of the interdisciplinary approach the RCCF takes," Wilson said. "That's why these new investigators are getting funded; they're learning at an early stage to be interdisciplinary in their research."



Wilson



Prinz

Psychologist looks for early clues to autism

By Chris Horn

A USC psychology professor is looking for behavioral and physiological markers in infants that could allow autism to be diagnosed at much earlier ages.

If successful, Jane Roberts' research could lead to improved developmental outcomes for children with autism by opening the door for earlier and more targeted treatment interventions.

"The average age for diagnosis of autism is currently 5 years, and it's a behavioral diagnosis: a child must exhibit specific behaviors that are atypical to a certain degree," Roberts said. "Those atypical behaviors are difficult to detect at younger ages, but if we can lower the age of diagnosis or at least figure out which infants are at highest risk, there's a much better opportunity for early interventions to alter the course of the disease and improve outcomes."

Roberts is using a grant from the state Developmental Disabilities Council to look for specific markers, including heart activity and visual attention that could signal the presence of autism in the first 2 years of life. Roberts plans to collaborate with John Richards, a fellow professor in the psychology department who has conducted numerous studies on infant attention.

Using some of Richards' techniques that involve EEG analysis, heart rhythm monitoring, and visual attention, Roberts will study two high-risk groups: infants with older siblings diagnosed with autism and infants with fragile X syndrome, a single-gene disorder that's the No. 1 known biological cause of autism.

"As a prospective study, we won't know until later which of the infants we study will be diagnosed with autism, but the baseline data we gather could isolate the early onset markers that correlate with the disease," Roberts said.

With a prevalence of 1:110 (1:70 males) and a cost of \$35 billion per year, the early detection of autism in high-risk infants is critical. Autism is diagnosed four-times as often in boys, and approximately 20 percent of younger siblings of children already diagnosed with autism will be diagnosed with autism, too. One in 4,000 males are born with fragile X syndrome, a disorder that involves debilitating intellectual disabilities, and a diagnosis of autism is common, occurring in approximately 40 percent of fragile X cases.



Roberts

November & December

Calendar



Jason Ayer

■ Lectures

Nov. 4 Statistics, Colloquium Seminar, "Bootstrapping the Grenander Estimator," Michael Woodroffe, statistics, University of Michigan, 2 p.m., LeConte College, Room 210A. Refreshments served at 3 p.m.

Nov. 4 Women's and Gender Studies, 2010 Adrené Glover Freeman Lecture in African American Women's Studies, "Women Who Serve," Yvonne Latty, director, New York University's Arthur L. Carter Journalism Institute, 7 p.m., USC School of Law Auditorium. The lecture is free and open to the public.

Nov. 5 Nursing, Viana McCown Lectureship, "Transforming the Health Care Experience & Environment," 8:30 a.m.–2 p.m., Clarion Townhouse Hotel. The lectureship will feature the following sessions: "Transforming the Health Care Experience Through Art," Sandra Walsh, professor, College of Health Sciences, Division of Nursing, Barry University, Florida; "Redesigning the Health Care Environment," Pam Sprague, associate, RTKL Associates Inc., Dallas, Texas; "Arts in Health Care," Trish Traylor, director of Critical Care Services, Piedmont Medical Center; and "Healing Power of Story," Sue Heiney, Shealy Dunn Professor of Nursing, USC College of Nursing. For more information, call 7-3039 or e-mail advancingleadership@sc.edu.

Nov. 5 Chemistry and Biochemistry, "UV Resonance Raman Discovery of Gibbs Free Energy Landscape for Protein Alpha Helix Folding," Sanford Asher, University of Pittsburgh, 4 p.m., Jones Physical Science Center, Room 006. Refreshments served at 3:45 p.m.

Nov. 9 Carolina Scholars: Claudia Benitez-Nelson, USC's Earth and Ocean Sciences and Marine Science Program, 7–8:30 p.m., Gressette Room, Harper College. Food will be served. For more information, e-mail lastlectureatusc@gmail.com.



Bloomquist

Nov. 11 Linguistics, Colloquium, Jennifer Bloomquist, Gettysburg College, 2–3:15 p.m., Sloan College, Room 112. The topic will be the impact of southern-styled hip hop on African-American English place and regional developments in hip-hop culture. And same speaker, 4–5:30 p.m., Sloan College, Room 112. The topic will be construction of ethnicity via voicing: African-American English in children's animated film. A reception will follow in the Humanities Office Building, Room 104. For more information, e-mail weldont@mailbox.sc.edu or go to www.cas.sc.edu/ling/activities/colloquia.html.

Nov. 12 Chemistry and Biochemistry, "Characterization of Host Cell-HIV Protein-RNA Interactions as Novel anti-HIV Targets," Karin Musie-Forsyth, Ohio State University, 4 p.m., Jones Physical Science Center, Room 006. Refreshments served at 3:45 p.m.

Nov. 15 Women's Faculty Organization, "Family Friendly Policies Forum," Senior Vice Provost Christine Curtis, 3:30–5 p.m., Gressette Room at Harper College.

Nov. 16 Medication Safety and Efficacy, "Community of Scholars" Research Colloquia, "SeniorSMART® Center of Excellence in SmartHOME®," noon–1 p.m., Coker Life Science, Room 110. The speakers will be Sue Levkoff, director, SeniorSMART®, and CoEE chair, SmartHOME®, professor, College of Social Work, and Deb Krotish, assistant director, SeniorSMART®, assistant professor, USC School of Medicine, Division of Geriatrics. Learn about research and collaborative opportunities to help older adults live independently and safely. Brown bag lunches welcome. For more information, e-mail pweiss@mailbox.sc.edu.



Levkoff



Krotish

Nov. 19 Chemistry and Biochemistry, Space Science Division of NASA, Fred Weissman Lecture in Chemistry, Chris McKay, 4 p.m., Jones Physical Science Center, Room 006. Refreshments served at 3:45 p.m.

■ Contemporary galloping

The USC Dance Company performs the contemporary ballet, *The Great Galloping Gottschalk*, by Tony-nominated choreographer Lynne Taylor-Corbett, in their concert, *Classics to Contemporary*, at the Koger Center Nov. 18–19. The performance also will include Arthur Saint Léon's *La Vivandiere* and George Balanchine's *Raymonda and Ondine*, choreographed by USC Dance artistic director Susan Anderson. Tickets are students, \$10; USC faculty, staff, military, and seniors age 60 and above, \$14; and general public, \$16. For tickets, call the box office at 7-5112. To charge by phone, call 251-2222. For more information, call Kevin Bush, 7-9353.

■ Miscellany

Nov. 4 Center for Teaching Excellence: Teaching Excellence Workshop, "5 Things You Can Do With a Wiki," 2–3:15 p.m., Center for Teaching Excellence, Thomas Cooper Library, Room 511. Learn how faculty at the USC College of Nursing incorporated wikis into on-campus and online courses at the undergraduate and graduate levels. To RSVP, go to www.sc.edu/cte/workshops/wiki/.

Nov. 9 Center for Teaching Excellence: "Mutual Expectations Workshop: Academic Integrity," 3:30–4:45 p.m., Harper College, Gressette Room. Students and faculty will participate in a structured discussion about mutual expectations dealing with academic integrity inside and outside of the classroom. Light refreshments will be served. RSVP by e-mail at cte@sc.edu, call 7-8322, or go online at www.sc.edu/cte/workshops/mx2 or www.sc.edu/cte.

Nov. 9 Law School: "Crude Justice: the Deepwater Horizon Oil Spill and the Search for Justice," followed by a discussion led by Josh Eagle, an associate professor in the School of Law, 6 p.m., USC School of Law, Room 135. For more information, send an e-mail to Robinspd@law.sc.edu.

Nov. 9 McCutchen House: Wine Classes, "Zinfandel," 6:30–8:30 p.m. Cost is \$50 per person. To register, go to www.mccutchenhouse.sc.edu.

Nov. 10 University Libraries: Flynn T. Harrell "Collection on Separation of Church and State," 10:30 a.m., Hollings Library, enter through Thomas Cooper Library. J. Brent Walker, executive director of the Baptist Joint Committee for Religious Liberty and an expert on church-state issues, will give a talk on the separation of church and state. The Harrell collection is held by S.C. Political Collections and contains materials from a variety of sources documenting the history and debate over this key principal defining America's government. For more information, call 7-5564.

■ Nov. 10 Clinical

Pharmacy and Outcomes Sciences: Graduate Research Seminar Series, "Racial Differences in Statin Medication Adherence and Associated Outcomes among Hyperlipidemic Medicaid Patients," Jun Wu, assistant professor, Clinical Pharmacy and Outcomes Sciences, S.C. College of Pharmacy-GHS campus, 12:15–1:15 p.m. Coker Life Sciences, Room 110. Open to all faculty, staff, students, and community members. Brown bag lunches welcome. For more information, send an e-mail to pweiss@mailbox.sc.edu.

Nov. 11 University Libraries: Robert Crawford will give a reading and book signing as part of the Fall Literary Festival, sponsored by Thomas Cooper Library and the Department of English, 6 p.m. The event is free and open to the public and will be held in the Ernest F. Hollings Special Collections Library. Enter through Thomas Cooper Library. For more information, go to www.sc.edu/library/fallfestival.html.

Nov. 11 Consortium for Science, Technology, Environment, and Medicine in Society: A Fundamental Challenge, "The Debate over Return of Results to Human Subjects in Genomic Research," 5:30–7:30 p.m., School of Law Auditorium. Open to the USC community and the public. For more information, call 7-2393 or go to <http://cstem.sc.edu>.

■ Miscellany

Nov. 12 Consortium for Science, Technology, Environment, and Medicine in Society: Communicating Across Cultures, "Science, Technology, Environment, and Medicine in Society," 8:30 a.m.–5:30 p.m., Harper College, Gressette Room. The USC community and the public can attend all or part of a free one-day workshop about interdisciplinary issues. For more information, call 7-2393 or go to <http://cstem.sc.edu>.

Nov. 16 McCutchen House: Wine and Cheese, 6:30–8:30 p.m. The cost is \$50 per person. To register, go to www.mccutchenhouse.sc.edu.

Nov. 17 Center for Teaching Excellence: "Power Lunch for Columbia Tenure-Track Faculty: Teaching and Research in Tenure and Promotion," 12:15–1:45 p.m., Center for Teaching Excellence, Thomas Cooper Library, Room 511. The Center for Teaching Excellence invites new tenure track faculty for lunch and for brief presentations by Senior Vice Provost Christine Curtis and a recently tenured faculty member. The workshop will include an interactive discussion of mechanisms faculty can use to achieve balance between effective teaching and productive scholarship. Registration is required. Register by Nov. 10 online at www.sc.edu/cte/power/columbia/ or www.sc.edu/cte. Co-sponsored by the Office of the Provost and the Center for Teaching Excellence.

Nov. 17 Clinical Pharmacy and Outcomes Sciences: Graduate Research Seminar Series, "Headline News: A Blood Test for Mild TBI: What are the Implications for Pharmaceutical Research in TBI Treatment," Libby Dismuke, Research Health Scientist, Center For Disease Prevention and Health Interventions For Diverse Populations, Ralph H. Johnson Department of Veterans Affairs Medical Center, Charleston, and Clinical Pharmacy and Outcomes Sciences, S.C. College of Pharmacy, 12:15–1:15 p.m., Coker Life Sciences, Room 110. Open to

all faculty, staff, students, and community members. Brown bag lunches welcome. For more information, send an e-mail to pweiss@mailbox.sc.edu.

Nov. 17 University Libraries: "Politics on Film Festival," 4:30 p.m., Ernest F. Hollings Special Collections Library, Program Room. The festival will continue with a screening of *Boogie Man*, the 2008 documentary on Lee Atwater. Politics on Film Festival is a monthly event presented by S.C. Political Collections. Each event offers an introduction and screening of a film relating to government and politics, free pizza and soda for the first 25 guests, and a discussion after the film's conclusion. The events are free and open to the public. Subsequent films will be shown the third Wednesday of January, February, and March.

Every Thursday McCutchen House: Four- or five-course evening dinner designed and prepared by students in the Hotel, Restaurant, and Tourism Management program under the direction of teaching staff and chefs, 6:30–6:45 p.m. The cost is \$20 per person. To register and for menus, go to www.mccutchenhouse.sc.edu.

Through Dec. 3 McCutchen House: Lunch buffet, 11:30 a.m.–1:30 p.m., Tuesday–Friday. Cost is \$10 per person. For reservations, call 7-4450.



A high-tech experience Trans-Siberian Orchestra, a top selling act around the world, creates one of the most captivating concert experiences on the road today. Insistent on giving their fans the most value for their dollar, TSO puts on an over-the-top audiovisual spectacular complete with lasers, pyrotechnics, and state of the art lighting. Tickets, from \$27 to \$59, are on sale now for the Dec. 3 concert in Colonial Life Arena. To buy tickets for the 8 p.m. event, call 877-4-TWC-TIX.

Hightower's work accepted into juried exhibition

Mary Lou Hightower, an associate professor of art education and director of the FOCUS Gallery at USC Upstate, had a mixed media art piece, right, entitled *Circling Around The Problem*, accepted into the S.C. Watermedia Society's 33rd-annual Exhibition in Rock Hill. Hightower's work, which was selected from more than 200 entries, is on exhibit in the Center for the Arts on Main Street, Rock Hill, through Nov. 19. The S.C. Watermedia Society promotes the aesthetic and professional interests of its members and provides the public with artistic opportunities through watermedia painting. For more information, contact Hightower at 864-503-5817 or mhightower@uscupstate.edu.



Around the campuses

Nov. 4 USC Salkehatchie: Faculty Organization meeting, 1 p.m., 120 East Campus. For more information, call Maureen Anderson, 843-549-6314.

Nov. 4 USC Upstate: Warhol Lecture Series, "Andy Warhol's Photographs In and Out of the Still Life Tradition," 3 p.m., George Dean Johnson Jr. College of Business and Economics, 160 E. St. John St., Spartanburg, Room 150. Rachel Snow, assistant professor of art history at USC Upstate, will speak.

Nov. 9 USC Salkehatchie: Salkehatchie Arts Holiday Open House, 3-7 p.m. Author Ken Burger book signing at 3 p.m. Holiday Open House at 4 p.m., Salkehatchie Arts Center. For more information, contact Anne Rice, 803-584-3446.

Nov. 12 USC Salkehatchie: Student Government Administration Forum, 1 p.m., East Campus, Room 111. Open forum for students with the Salkehatchie administration. For more information, call Anne Rice, 803-584-3446.

Nov. 12 USC Aiken: Faculty artist recital, featuring the original compositions of Richard Maltz, 7:30 p.m., Etheredge Center. Admission free, reception to follow.

Nov. 17 USC Salkehatchie: Salkehatchie Education Consortium Meeting of School District Consortium, noon, Education Building, West Campus. For more information, call Andy Sandifer, 803-584-3446.

Nov. 18 USC Salkehatchie: SGA Drive In Movie Night, 8 p.m., lawn of Science Building, West Campus, featuring a movie and popcorn under the stars. For more information, contact Mandy Smith, 803-584-3446.

Through Dec. 5 USC Sumter: "Excerpts," featuring works by Frank McCauley, Upstairs Gallery, Administration Building. Gallery hours are 8:30 a.m.-5 p.m. Monday-Friday. For more information, contact Cara-lin Getty, gallery director, at cgetty@uscsumter.edu or Laurel Jordan, gallery assistant, at jordalau@uscsumter.edu.

Through Dec. 11 USC Sumter: "Liisa Salosaari Jasinski: Oil Paintings," featuring works by Liisa Salosaari Jasinski, University Gallery, Anderson Library. Gallery hours are 8:30 a.m.-8 p.m. Monday-Thursday, 8:30 a.m.-1 p.m. Friday, and 2-6 p.m. Sunday. The gallery is closed Saturday. For more information, contact Cara-lin Getty, gallery director, at cgetty@uscsumter.edu or Laurel Jordan, gallery assistant, at jordalau@uscsumter.edu.

Through Dec. 15 USC Sumter: "A History of Surface," featuring works by Kathy Casey, Umpteenth Gallery, Arts and Letters Building. Gallery hours are 8:30 a.m.-5 p.m. Monday-Friday. For more information, contact Cara-lin Getty, gallery director, at cgetty@uscsumter.edu or Laurel Jordan, gallery assistant, at jordalau@uscsumter.edu.



Hopkins

Andreas Koessler

Theatre/opera/dance

Nov. 12-20 Theatre and Dance: *The Water Station*, by Shogo Ohta, and directed by USC's Steven Pearson, a professor of acting and head of the MFA acting program. Performances will be at 8 p.m. Nov. 17-18 and 20-21 and at 8 p.m. and 11 p.m. Nov. 19. Performances will be in the Center for Performance Experiment at Hamilton Gym. *The Water Station (Mizo No Eki)* uses Ohta's concept of slow movement and silence to explore human relationships with the elements and each other. The play is being produced through Pearson and Robyn Hunt's performance group, Pacific Performance Project/east. Seating is limited and available on a first-come, first-served basis. For more information, call Kevin Bush, 7-9353.

Nov. 12-20 Theatre and Dance: *Big Love*, by Charles Mee, and directed by Chris Clavelli. Performances will be at 8 p.m. Nov. 12 and Nov. 17-19; 7 p.m. Nov. 13; 3 p.m. Nov. 14; and 7 p.m. and 11 p.m. Nov. 20 in Longstreet Theater. A question-and-answer session will follow the Nov. 17 performance. Admission is half price for the 11 p.m. Nov. 20 performance. Tickets are \$16 for the public; \$14 for military and USC faculty and staff; and \$10 for students. The Longstreet box office will open at 12:30 p.m. Nov. 5. For more information, call Kevin Bush, 7-9353. (See story page 8)

Concerts

Nov. 5-7 Opera at USC: *Mr. Scrooge*, by Samuel O. Douglas, and *Miss Havisham's Wedding Night*, by Dominick Argento, 7:30 p.m. Nov. 5-6 and 3 p.m. Nov. 7, Drayton Hall. Tickets are general admission, \$18; seniors, faculty, staff, military, \$15; and students, \$5. Season tickets are available. For tickets, call 7-0058. For more information, contact Ellen Schlaefer, opera director, at eschaefer@mozart.sc.edu.

Nov. 9 School of Music: World Symphonic Jazz Orchestra Concert, 7:30 p.m., Center-Contemporary Art, 701 Whaley St. Admission is free. For more information, call 7-4280 or go to www.music.sc.edu/ea/SymphJazzWorld/index.html.

Nov. 11-14 School of Music: The Society for Composers International Conference. More than 200 composers and performers will participate in fourteen concerts of more than 100 works of new music and six academic paper presentation/demonstrations. Faculty and students from the School of Music also will perform during the conference. For more information, go to www.music.sc.edu/events.html.

Nov. 14 School of Music: Chamber Innovista Concert Series, 3 p.m., School of Music Recital Hall, Room 206. The event will be the final concert of the Society for Composers International Conference. Individual tickets are adults, \$15, and seniors and students, \$5. For more information, call 7-4280 or send an e-mail to frontoffice@mozart.sc.edu.

Nov. 14 School of Music: Carolina Alive, 7:30 p.m., School of Music Recital Hall, Room 206. Admission is free. For more information, call 7-5369.

Nov. 15 School of Music: Christopher Creviston Guest Artist Saxophone Recital, 7:30 p.m., School of Music Recital Hall, Room 206. Admission is free. For more information, call 7-4280.

Nov. 16 School of Music: USC Symphony Orchestra, featuring Janet Hopkins, mezzo-soprano, an assistant professor of voice in the USC School of Music, 7:30 p.m., Koger Center. Tickets are adults, \$25; seniors and USC faculty and staff, \$20; and students, \$8. Tickets are available at www.capitoltickets.com or the Carolina Coliseum box office. For more information, call 251-222.

Nov. 18 School of Music: USC Faculty Jazz Recital, featuring Bert Ligon, Craig Butterfield, and Kevin Jones, 7:30 p.m., School of Music Recital Hall, Room 206. Admission is free. For more information, call 7-4280.

Theatre/opera/dance

Nov. 18-21 Theatre and Dance: *Bent*, by Martin Sherman, 8 p.m. all performances, Lab Theatre, Wheat Street, across from the Blatt P.E. Center. Directed by Robert Richmond, a USC associate professor of theater, the play tells the story of how gays in Nazi Germany were arrested and interned at work camps before the genocide of Jews, gypsies, and the disabled, and continued to be imprisoned even after the fall of the Third Reich and liberation of the camps. Tickets are \$5 and are available only at the door. For more information, call Kevin Bush, 7-9353.

Sports

Nov. 6 Football: Arkansas, 7 p.m., ESPN, Williams-Brice Stadium.

Nov. 13 Football: at Florida, Time TBA

Nov. 20 Football: Troy, Time TBA, Williams-Brice Stadium

Nov. 27 Football: at Clemson, Time TBA

Exhibits

Oct. 25-Nov. 24 McMaster Gallery: The gallery will feature works by California artist Garth Johnson of altered collector vessels using decals, laser transfers, and china paint. McMaster Gallery, located in the art building at 1615 Senate St., is open from 9 a.m. to 4:30 p.m. Monday-Friday and closed weekends and University holidays. For more information, contact Mana Hewitt at 7-7480 or mana@sc.edu.

Nov. 13-Jan. 15 McKissick Museum: "The Art of Environmental Awareness: The Batiks of Mary Edna Fraser and Anna Heyward Taylor—Batiks: Tropical Flora from British Guiana," third floor lobby. Join McKissick Museum's celebration of art and nature during the "Year of the Environment" with a reception for the exhibitions from 5:30 to 7 p.m. Nov. 12.

Through Dec. 14 McKissick Museum: "The Art of Environmental Awareness: The Batiks of Mary Edna Fraser," North Gallery, second floor.

Through Dec. 18 McKissick Museum: "Silver Yana: The Photographic Works of F. Tobias Morris," South Gallery, second floor. Morris came to Columbia in 2005 fleeing the ravished gulf coast following Hurricane Katrina. A popular instructor in USC's Department of Art, Morris' life and career were cut short following a hit-and-run accident on Feb. 21, 2010. He was 36 years old.

Through Dec. 18 South Caroliniana Library: "A Gospel of Health: Hilla Sheriff's Crusade Against Malnutrition in South Carolina," Lumpkin Foyer.

Through December Hollings Library: "Two Centuries of Collecting: Some Treasures from the Irvin Department of Rare Books and Special Collections," Irvin Department Exhibition Gallery.

Through December Hollings Library: "Selected Treasures," S.C. Political Collections Gallery. The exhibit showcases a few treasures from the collections.

List your events

The *Times* calendar welcomes submissions of listings and photographs for upcoming campus events. Information should include the title of the event, starting time, location, speaker or presenter and their affiliation, cost to attend, and the host department or program. Send information or direct questions to Jane Jeffcoat at jwj@mailbox.sc.edu or 7-3683. The deadline for receipt of information is 11 business days prior to the publication date of issue. The next publication date is Nov. 18.

Online calendar

USC Calendar of Events is at <http://events.sc.edu>. To add events here, contact Cassandra Pope at popectl@mailbox.sc.edu or 7-0019.

If you require special accommodations, please contact the program sponsor.

USC board cuts tuition on five campuses

The University's Board of Trustees voted unanimously Oct. 26 to roll back 2010–11 tuition increases to 6.08 percent at USC's two-year campuses and to 7 percent at USC Beaufort.

The new rate, which takes effect in spring 2011, is in response to the State Budget and Control Board's Sept. 29 moratorium on capital projects at the state's four-year public institutions with tuition increases above 7 percent and two-year campuses with tuition increases that exceeded 6.3 percent.



Moore

The moratorium impacted building plans at one of the USC system's four-year campuses: USC Beaufort. The Board of Trustees had approved a 9.5 percent tuition increase for FY 2011 to move tuition for the former two-year campus more in line with that of other four-year public institutions. At USC Beaufort, plans are under way to complete the second floor of its main library, and USC Lancaster,

which had a tuition increase of 6.5 percent, is planning to construct a classroom building.

Ted Moore, vice president and chief financial officer, said the move will be particularly difficult for USC Beaufort, though library expansion will now move forward. Administration will work to ensure that effects on academic programs are minimal, he said.

"USC Beaufort has the lowest tuition of any public baccalaureate institution in South Carolina," Moore said. "We carefully review budget needs on all campuses each year and raise tuition as little as possible while maintaining support for our core mission in light of state budget cuts. It will be difficult, but we will manage the effects of the rollback to minimize effects on academic programs. The rollback on the regional campuses is much smaller, so its effect will be less serious."

The action means that resident tuition and fees for students at the two-year campuses, including students in the baccalaureate Palmetto Programs, will be \$2,932 per semester, a drop of \$12 per semester. The part-time rate for resident undergraduates with fewer than 75 hours will drop by \$1, from \$229 per credit hour to \$228. Tuition and fees will remain the same for full-time and part-time nonresident undergraduates and part-time for students with more than 75 hours.

USC Beaufort's resident undergraduate tuition will drop \$92 per semester, from \$3,970 to \$3,878. The part-time rate for resident undergraduates will drop from \$317 per credit hour to \$310.

"If we were not to comply with the moratorium, USC Beaufort would be unable to upfit the second floor of the library, and that would impact our students and the academic mission."

Mandal continued from page 1

Quantum cutting refers to conversion of ultraviolet radiation to visible light—which can then be converted to energy by a solar panel. Mandal's experimental model accomplishes that quantum cutting conversion with a flexible, thin-film PVC plastic coated with a proprietary formula of chemical and rare earth materials.

The film is placed on top of a conventional solar panel and converts a much larger portion of the visible and invisible light spectrum to a usable form of photon energy for the solar panel underneath to absorb. The result? An improvement in solar cell efficiency from 12–30 percent without the film to as high as 60 percent with the film.

"The film we've developed works like a lens that converts all of the light energy for the solar panel below to use," Mandal said. "The key is doping [or coating] cadmium sulfide and zinc sulfide materials with rare earth elements, which transport the lost spectrum of UV light to the solar panel."

The metal-sulfide and rare earth materials are called quantum dots: semiconductor crystals that can absorb and emit energy from specific bandwidths of light. By tuning the quantum dots to specific sizes and with specific materials, one can capture the whole spectrum of light for energy conversion.

Mandal has applied for patent protection of the specific formula he and his team have developed, and he envisions launching a start-up company at some point in the future. He has collaborated with Richard Adams, a USC chemistry professor, and with leading photovoltaics researchers across the country.

"DARPA (Defense Advanced Research Agency) thinks this is a great idea," he said. "And if we can prove that this technology will double, perhaps even triple the amount of electricity generated by existing solar cells, everyone will think it's a great idea."

State of the university: 'Great things lie ahead'

Despite some of the steepest funding cuts experienced by any university in the country, the University of South Carolina is strong, focused and determined not to allow circumstances to define its future, President Pastides said Oct. 27 in his State of the University address.

"Our university has been stretched, pushed, tugged on, and tested in so many ways this past year, and while I don't expect that to change any time soon, I am confident that we are more ready, more resilient, and more resourceful than at any time in our past," Pastides said. "I am confident that great things lie ahead."

Pastides, who is starting his third year as USC's president, spoke to the University's faculty, staff, and students in the School of Law Auditorium, updating them on a year that has seen deep cuts in funding but huge accomplishments in the classrooms, research labs, fund raising efforts, and on athletic fields.

He pointed to the University's many highlights of the past year. They include:

- Welcoming a record number of freshmen in Columbia and throughout the system. Nearly half of the baccalaureate and graduate degrees in the state are earned at USC.
- A contribution of some 350,000 volunteer hours and nearly \$1.5 million in donations to community organizations by the University family.
- Private contributions of more than \$117 million, including \$30 million from graduates Bill and Lou Kennedy of Florida to create the Kennedy Pharmacy Innovation Center.
- The University's contributions to the state's economic development. Since 2000, the University's technology incubator has graduated 27 companies with 720 new jobs, and dozens more companies are in the pipeline.
- A record year in research funding and the National Research Council's recently released study of graduate programs in humanities and sciences that included several highly ranked programs at USC, including the state's top rated graduate programs for engineering, and high marks for English, biology, and geography, among others.

Pastides also spoke of the University's commitment to the state and its role in community outreach, particularly in the area of health disparities among South Carolinians. The Arnold School of Public Health this year received \$6.7 million from the National Institutes of Health to further develop efforts in studying cancer and other health disparities.

The University's commitment to address health disparities



Pastides

is evident in its plan to increase the size of the medical school. Earlier this year, the boards of USC and Greenville Hospital System approved plans to move forward in establishing a campus of the USC School of Medicine in Greenville to train more doctors. No state funding will be used in the budget model for the program, Pastides said.

His talk was accented with video clips from University students, alumni, faculty, staff, and researchers, who spoke about the University's accomplishments in the past year. Among the clips were Kelly Truesdale, a recent Moore School IMBA graduate, and Ralph Riley. Truesdale is the chief operating officer of SysEDA, a new start-up company that uses intellectual property developed in the College of Engineering and Computing with the expertise of the Moore School. Riley, a physician practicing family medicine in Saluda, has witnessed the face of health disparities in rural parts of the state.

Looking ahead, Pastides predicted the next year would be "a vexing one for every one of our campuses, from Allendale to Union, and every one in between."

Some common ground was found at a recent higher education summit called by Gov. Mark Sanford, but there was also disagreement on higher education funding, Pastides said.

"We used facts front and center, as we always will, but we will also need to use the art of advocacy," Pastides said. "The fact is that economists are projecting an additional \$20 million to \$25 million cut for USC in the next fiscal year in addition to the \$110 million taken away over the past two years."

He said he expects the next political season to bring calls for tuition caps and limits on out-of-state enrollment, and there has already been a limited moratorium on campus construction—even though nearly every dollar spent on construction is not state allocated or tuition based, he said.

"We have never been reckless or wanton in setting its tuition rates. We have been and always will be compassionate and businesslike in setting the cost of the high quality product we deliver," he said.

"The reality is that the direct annual costs of a college education are in the neighborhood of \$16,000 to \$17,000 per student—and that has to come through some combination of tuition and state funding. It's the same at every public university in America."

He said the University system remains committed to educating every applicant from South Carolina who meets the University's admissions standards, along with a good mix of out-of-state and international students. The combination allows USC to serve its students and the state's global future.

"As a University system, we have never before been educating so many South Carolinians, and our goal is to further increase access to higher education in this state," he said. "Access and affordability are the watchwords of our commitment."

Research continued from page 1

advantage in this broad and vital area." USC faculty in the College of Arts and Sciences, the Arnold School of Public Health, and the College of Engineering and Computing have active environmental sciences research projects. Environmental sciences research includes areas such as climate change, environmental remediation, and toxicology studies and covers a range of academic disciplines.

"The research in this area is distributed across campus—it's not the domain of any single department—and I think that's why our strength in this area doesn't always receive the recognition that it should," Thunell said.

USC's success in garnering environmental sciences related

research funding is epitomized by a \$4.9 million grant earlier this year from the Department of Energy to the University's Earth Sciences and Resources Institute. The project, which is studying the potential for carbon dioxide sequestration in the South Georgia Rift Basin, has been recently supplemented by an additional \$5 million in DOE funding.

"Those grants will be tallied for FY 2010 and 2011 and bode well for our NSF rankings in the coming years," Thunell said, adding that faculty have begun a series of roundtable discussions to promote more collaborative efforts in environmental sciences research across campus.

Provosts continued from page 1

we'll have a Web-based request form for space needs."

Ford, former chair of the history department, is working to bring more coordination to the University's varied distance education offerings. He's particularly interested in developing coherent policies and infrastructure support for distance ed programming.

"In addition to making sure we have the right technology support, we have to develop rigorous and rewarding online courses that feature the right pedagogy," Ford said.

"To take any course to distance education, you need course designers to help make it interactive. It's a demanding task for faculty, but as a University, we have to prepare for a day in which a portion of every college education is received online; it's what students expect."

Ford said there is neither a quota for the number of courses the University should have online nor a timetable for implementing a larger offering, "but we do need to reach a certain threshold. In the next two years, I want to have the infrastructure in place to accomplish that."

Distance education programs in engineering and computing, library and information science, nursing, business, and social work are already functioning at a high level, but more emphasis is needed University wide on undergraduate courses, Ford said.

Ford also is the principal liaison from the provost's office with the Graduate School. He's also working with the law school as it searches for a new dean and with that school's blue ribbon commission to plot the school's future.



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Director of periodicals: Chris Horn chorn@mailbox.sc.edu

Managing editor: Larry Wood larryw@mailbox.sc.edu

Design editor: Betty Lynn Compton blc@mailbox.sc.edu

Senior writer: Marshall Swanson mswanson@mailbox.sc.edu

Photographers: Michael Brown mfbrown@mailbox.sc.edu
Kim Truett ktruett@mailbox.sc.edu

Times calendar editor: Jane Jeffcoat jwj@mailbox.sc.edu

To reach us: 7-8161 or larryw@mailbox.sc.edu

Campus correspondents: Office of Media Relations, Columbia; Deidre Martin, Aiken; Shana Funderburk, Lancaster; Jane Brewer, Salkehatchie; Misty Hatfield, Sumter; Tammy Whaley, Upstate; Terry Young, Union.

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Faculty/staff news

Faculty/staff items include presentations of papers and projects for national and international organizations, appointments to professional organizations and boards, special honors, and publication of papers, articles, and books. Submissions should be typed, contain full information (see listings for style), and be sent only once to Editor, Times, 920 Sumter St., Columbia campus. Send by e-mail to: chorn@mailbox.sc.edu.

BOOKS AND CHAPTERS

Robert G. Brookshire, Lynn B. Keane, integrated information technology and management, and Kara M. Lybarger, "Virtual Workplace Learning: Promises Met?" SAGE Handbook of Workplace Learning, Margaret Malloch, Len Cairns, Karen Evans, and Bridget N. O'Connor, editors, The SAGE Publications, London.

ARTICLES

Steven D. Smith, S.C. Institute of Archaeology and Anthropology, "Obstinate and Strong: The History and Archaeology of the Siege of Fort Motte, South Carolina," *Journal of Middle Atlantic Archaeology*.

Steven N. Blair, exercise science, S.S. Sawada, I.M. Lee, H. Naito, K. Tsukamoto, and T. Muto, "Muscular and Performance Fitness and the Incidence of Type 2 Diabetes: Prospective Study of Japanese Men," *Journal of Physical Activity and Health*.

Stacy L. Fritz and Bruce McClenaghan, exercise science, **D. McCarty**, and **E. Blanck**, "Examining Dance Therapy as an Adjunct Therapy for Selected Measures of Postural Stability, Gait, and Sensory Processing for Children with Mild to Moderate Cerebral Palsy," *Journal of Student Physical Therapy Research*.

James M. Mensch, Karen E. French, and **Murray Mitchell**, physical education, **Stacy L. Fritz**, exercise science, A. Goodman, and M. Jay, "Retention and attrition factors of female certified athletic trainers in the NCAA Division-I FBS setting," *Journal of Athletic Training*.

Xuemei Sui, Steven N. Blair, and **Timothy S. Church**, exercise science, Allen W. Jackson, Duck-Chul Lee, James R. Morrow Jr., and Andrea L. Maslow, "Muscular Strength Is Inversely Related to Prevalence and Incidence of Obesity in Adult Men," *Obesity*.

Edward A. Frongillo, health promotion, education, and behavior, M.H. Cantor, T. MacMillan, T.D. Issacman, R. Sherrow, M. Henry, E. Wethington, and K. Pillemer, "Who are the recipients of meals-on-wheels in New York City?: A profile based on a representative sample of meals-on-wheels recipients, Part I," *Care Management Journals*.

Marianne C. Bickle, retailing, and **Rich Harrill**, International Tourism Research Institute, "Avoiding Cultural Misconceptions During Globalizations of Tourism," *International Journal of Culture, Tourism and Hospitality Research*, and, same journal, with Sujie Wang, "Residents' Attitudes Toward Tourism Development in Shandong, China."

PRESENTATIONS

Charles K. Cook, Michael R. Bacon, and **Rebecca A. Hillman**, mathematics, Sumter, "The 'Magicness' of Powers of Some Magic Squares," International Conference of Fibonacci Numbers and Their Applications, Instituto de Matemáticas de la UNAM, Morelia, Michoacán, México.

Lighter times



Yes. With grant requests, when you hear "va va voom!" it means funded.

Rebecca A. Hilman, Charles K. Cook, and **Michael R. Bacon**, mathematics, Sumter, and Gerald E. Bergman (South Dakota State University), "Some Specific Binet Forms for Higher-Dimensional Jacobsthal and Other Recurrence Relations," International Conference of Fibonacci Numbers and Their Applications, Instituto de Matemáticas de la UNAM, Morelia, Michoacán, México.

Lisa Hammond, English, Lancaster, "Naughty Mommies: Sexual Identity in Contemporary American Women's Memoir," Popular Culture Association/American Culture Association in the South Conference, Savannah, Ga.

Hayes Hampton, English, Sumter, "Presence: Occulture and the End of Secrecy," Popular Culture Association in the South/American Culture Association in the South Conference, Savannah, Ga.

Anna Berger, Institute for Public Service and Policy Research, "National Recession's Impact on South Carolina Local Governments," Southeastern Conference for Public Administration, Wilmington, N.C., and, "The State of South Carolina Local Government Finances: All You Wanted to Ask But Were Afraid to Know," S.C. Government Finance Officer's Association, Myrtle Beach.

OTHER

Marianne C. Bickle, retailing, is blogging for Forbes about trends in economic, retailing, and consumer purchasing patterns: <http://blogs.forbes.com/prospernow/>.

Job vacancies

For up-to-date information on USC Columbia vacancies and vacancies at other campuses, go to uscjobs.sc.edu. The employment office is located at 1600 Hampton St.

Former social work dean receives national award



Raymond

Frank B. Raymond, former dean of the College of Social Work, has received the Council on Social Work Education's top award for individual achievements in the area of international social work education.

CSWE, the sole accrediting agency for social work education in the United States, presented Raymond the Partners in Advancing Education for International Social Work Award, given "in recognition of conceptual, curricular, and programmatic innovations in education for international social work."

Raymond, dean emeritus and distinguished professor emeritus at USC, was dean of the College of Social Work for 22 years, retiring in 2002. During his deanship, he was a national leader in advancing international social work education and global social development, and he has continued these efforts since his retirement.

Under his leadership, the College of Social Work was one of the first social work schools to offer study-abroad learning experiences. Raymond also began developing partnership arrangements between the College of Social Work and academic programs in other countries, eventually establishing some 20 international partnerships. Also during Raymond's tenure, the college established a branch program in South

Korea to offer the school's MSW degree program there. With the graduation of the sixth cohort of students in 2010, more than 150 MSW degrees will have been awarded by USC through the Korea-based MSW program.

Crocker named visiting scholar

Thomas Crocker, an associate professor in the USC School of Law, has been named a visiting scholar at the American Academy of Arts and Sciences and will spend the 2010-11 academic year working on *By Any Means Necessary? Securing Constitutional Commitments in a State of Emergency*.

By Any Means Necessary? is an exploration of the relations between ethical values and constitutional commitments in light of contemporary national security policy, examining how necessity arguments challenge established normative orders and how everyday ethical life interacts with constitutional principles.

Crocker holds a Ph.D. from Vanderbilt University, a JD from Yale Law School, an MA from the University of Wales, and a BA from Mississippi State University.

He is one of seven awarded fellowships this year as part of the academy's Visiting Scholars Program, which supports scholars in the early stages of their careers who show potential of becoming leaders in the humanities, policy studies, and social sciences.

Tarr earns top teaching award

Simon Tarr, an assistant professor in the College of Arts and Sciences, has received the 2010 University Film and Video Association Teaching Award.



Tarr

Tarr, who teaches in the Department of Art, was cited for his innovative approaches to teaching media and digital art fundamentals and for enriching the field of film and video education. Tarr primarily teaches new media art, game design, animation, and comprehensive digital art.

Founded in 1947 as the University Film Producers Association, the UFVA has developed into an organization of more than 1,000 professionals and institutions involved in the production and study of film, video, and other media arts. An international organization, UFVA members are image-makers and artists, teachers and students, archivists and distributors, college departments, libraries, and manufacturers.

Two faculty earn national recognition

Arnold School of Public Health research faculty members James W. Hardin and Sacoby Wilson, both from the Department of Epidemiology and Biostatistics, have earned national recognition.

Hardin is the 2010 recipient of the H.O. Hartley Award, a major honor presented annually to a former student from the Department of Statistics at Texas A&M University (TAMU).

Hardin, who joined USC's faculty in 2003, is a research associate professor. He also works on funded research with the Arnold School's Center for Health Services and Policy Research and the Rural Health Research Center and the University's Institute for Families in Society.

The Hartley Award is named in honor of H.O. Hartley who founded the TAMU Institute of Statistics in 1962. He was a pioneer and leader in the development of the theory and real-world applications of statistics.

Wilson, chair of the Environment Section of the American Public Health Association, also has been elected to the Board of Directors of the Community-Campus Partnerships for Health (CCPH), an organization that utilizes community-university partnerships to promote health.

A researcher with USC's Institute for Families in Society, Wilson is a research assistant professor in the Department of Epidemiology and Biostatistics. His areas of expertise include environmental health research, exposure assessment, spatiotemporal mapping, air pollution monitoring, and environmental and social epidemiology.

Wilson is the principal investigator on a \$1.2 million grant from the National Institute of Environmental Health Sciences to help residents address environmental injustice, public health, and revitalization issues in seven disadvantaged neighborhoods in North Charleston.



Hardin



Wilson

Malone represents Upstate at Narcotics Commanders School

Bob Malone, assistant chief of police at USC Upstate, attended the Narcotics Commanders School, a five-day training session conducted by the District of South Carolina United States Attorney's Office through its Law Enforcement Coordinating Committee (LECC) Drug Subcommittee.

Malone was selected from a pool of applicants across South Carolina to attend the 19th-annual school. Twenty-eight narcotics officers in management or supervisory positions attended the training held at the National Advocacy Center at USC Columbia, which is the national training center for the U.S. Department of Justice.

Although officers learn about some of the newest drug trends and resources available to state and local law enforcement, the course is designed to teach both experienced and new law enforcement supervisors about management skills they can apply to certain situations in the narcotics investigation field.

Burgin wins McCallum Prize

Brent Burgin, director of archives at USC Lancaster, received the 2010 Brenda McCallum Prize from the Archives and Libraries Section of the American Folklore Society for the campus' Native American Studies Archive.

The archive includes the digital gallery of Catawba Nation images and the Georgia Harris online exhibit.

The prize is given for exceptional work dealing with folklife archives or with the collection, organization, and management of ethnographic materials.

Other winners of the award include the American Folklife Center at the Library of Congress, the state of Florida, UNC Chapel Hill, and UCLA.



Theater professor Robyn Hunt and guest actor and alumnus Eric Bultman
Kevin Bush

Play slowly, silently bares human emotion

Using slow motion and silence, *The Water Station (Mizo No Eki)*, by Shogo Ohta, explores human relationships with the elements and each other.

Directed by USC's Steven Pearson, the play will be performed at 8 p.m. Nov. 17–18 and Nov. 20–21 and at 8 p.m. and 11 p.m. Nov. 19 in the Center for Performance Experiment at Hamilton Gym. Seating is limited and available on a first-come, first-served basis.

Through extremely slow movement and only the actor's expressions, the one-act play depicts, in a post-war time and unidentified place, the dramatic stories of several individuals as they interact with a public water spigot. *The Water Station* is being produced through theater professors Robyn Hunt and Pearson's performance group, Pacific Performance Project/east.

"Ohta theorized that humans are silent much more than we have utterances," Hunt said. "He wanted to cause the audience to wake up and see things."

"The challenge for the actors is to figure out the physics of slow movement while keeping the integrity of their characters' emotional journeys.

"It's also fascinating to see what happens to the audience, as they are challenged to change their sense of time."

The cast members are Hunt; Eric Bultman and Paul Kaufmann, MFA acting alumni; Melissa Peters, community actress; Gabrielle Peterson, a BA theater alumna; Latrelle Brennan and Sarah Crouch, theater majors; and Katie Krueger, Lin Ying, and Todd Zimbelman, third-year theater MFA students.

Theatre South Carolina

Big Love takes a large look at the battle of the sexes

Featuring the new class of first-year MFA acting students, *Big Love*, by Charles Mee, is a take on an ancient play that examines the very modern topics of gender politics, love, and domestic violence.

Theater South Carolina will perform the play, based on Aeschylus's *The Suppliants*, at 8 p.m. Nov. 12 and Nov. 17–19, at 7 p.m. Nov. 13, at 3 p.m. Nov. 14, and at 7 p.m. and 11 p.m. Nov. 20 in Longstreet Theater. A question-and-answer session will follow the performance Nov. 17. Admission is half price for the 11 p.m. performance Nov. 20.

Tickets are \$16 for the public; \$14 for military and USC faculty and staff; and \$10 for students. Tickets will be available at the Longstreet box office, which will open at 12:30 p.m. Nov. 5. For tickets, call 7-2551.

Big Love tells the story of 50 brides who flee to a manor in Italy to avoid arranged marriages to their cousins. But, when the husbands-to-be drop in by helicopter to retrieve their brides, who are now free and basking in the sun, a fiery battle of the sexes erupts, making casualties of love and life.

"The characters in *Big Love* are confronting changing ideas about role-playing, and consequently everybody's really frustrated with the state of male/female relationships," said guest director Chris Clavelli, an actor who directs and teaches in professional theater.

"In some ways, you can boil the story down to the 'battle of the sexes,' but what I've been discovering is that the battle of the sexes changes as society changes; and now, as mores shift, it's harder to understand the traditional roles of men and women in romance and how romance pertains to partnerships.

"The ultimate answer that Charles Mee suggests is that there is no civilization without love. It doesn't matter how hard you find any kind of certainty. The only constant that actually makes it possible for us to consider living on earth is a loving relationship with another person. The only constant is love. And if you lose site of that, then you've lost sight of your own humanity.

"Love prevails in this piece, not before a lot of bloodshed, but it

does prevail. There's no civilization without lasting love, and that's basically the theme of the night."

Clavelli called the production a "kind of music video," featuring musical choices from around the world. "We have calypso, 50's rock 'n' roll, and classical, pieces from the film *Cinema Paradiso*," he said.

The play also is very physical.

"It's outlandish and a crazy three-ring circus of physicality," Clavelli said. "When the men and women get frustrated with each other, they

basically beat each other up and throw themselves all over the set, which is actually a padded playground set.

"We're experimenting with as much outrageous physicality as we can, so these will in no way be your traditional theatre fight scenes, where actors mimic the fighting while clearly trying to protect each other. It's not that at all. It's chaotic; it's ecstatic; it's hysterical. If the production works, the end should be a huge dance party for the audience. We really want to get the audience out of their seats at the end of the show."

The first-year MFA students in the show are Jessi Noel as Lydia; Amanda Forstrom as Olympia; Yvonne Senat as Thyona; Catherine Friesen as Bella/Eleanor; Joe Mallon as Piero/Bubba; Don Russell as Giuliano; Andy Hernandez as Constantine; and Samuel Kinsman as Nikos. The other cast members are undergraduate theater majors.

Scenic design is by Carl Hamilton, an MFA lighting design alumnus;

costume design, April Brown, second-year MFA costume design; lighting design, Marc Hurst, second-year MFA lighting design; and sound design, Adam Bintz, a theater undergraduate major.

Clavelli called the play a celebration of love. "It is big love, and that big love comes with big troubles, big challenges, big rewards, and big pains," he said. "If anybody in the audience has ever had a very challenging passionate relationship, and understands that the more passionate they are the more trouble they tend to be, they'll relate to the circumstances in this play."



Yvonne Senat makes a point with Sam Kinsman in Theatre South Carolina's production of *Big Love*, by Charles Mee. The first-year MFA acting students will appear in a modern retelling of an ancient Greek play in which brides go to murderous extremes to avoid arranged marriages. The play will run Nov. 12–20.

Jason Ayer

Southern Exposure New Music Series

Cellist Matt Haimovitz, pianist Geoffrey Bursleson to perform

Cellist Matt Haimovitz and pianist Geoffrey Bursleson will be the guest artists for the next Southern Exposure New Music Series concert.

They will perform at 7:30 p.m. Nov. 20 in the School of Music Recital Hall. The concert is free and open to the public.

"It's no stretch to say that Matt Haimovitz is a truly astounding cellist, not to mention an incredible advocate for new music. We're thrilled to have him perform on the series and work with our cello students at the School of Music," said John Fitz Rogers, associate professor of composition and artistic director of the Southern Exposure series.

Considered a musical pioneer and one of the world's greatest living cellists, Haimovitz is known for his visionary approach, groundbreaking collaborations, and innovative recording projects. He combines his extensive touring schedule with mentoring an award-winning studio at McGill University in Montreal, Canada.

Haimovitz made his debut in 1984 at the age of 13, as soloist with Zubin Mehta and the Israel Philharmonic. At 17, he made his first recording with James Levine and the Chicago Symphony Orchestra for Deutsche Grammophon. He has since gone on to perform on the world's most well known stages with the Berlin Philharmonic, New York Philharmonic, Boston Symphony Orchestra, and Montreal Symphony Orchestra.

Haimovitz made his Carnegie Hall debut when he substituted for his teacher, Leonard Rose, in Schubert's *String Quintet in C*, alongside Isaac Stern, Shlomo Mintz, Pinchas Zukerman, and Mstislav Rostropovich.

Haimovitz's 50-state "Anthem" tour in 2003 celebrated living American composers and featured his own arrangement of Jimi Hendrix's *Star-Spangled Banner*. He was also the first classical artist to play at New York's CBGB club, in a performance filmed by ABC News for *Nightline UpClose*.

In 2006, Haimovitz received the Concert Music Award from ASCAP for his advocacy of living composers and pioneering spirit, and in 2004, the American Music Center awarded Haimovitz the Trailblazer Award for his contributions to American music.

Bursleson has performed throughout Europe and North America and is equally active as a recitalist, concerto soloist, chamber musician, and jazz performer. He currently performs as principal pianist with the Boston Musica Viva and the New York Art Ensemble, as well as IMPETUS. He is also a member of Princeton University's Richardson Chamber Players.

Haimovitz and Bursleson's Southern Exposure concert will feature masterpieces of contemporary cello music, including works by Claude Vivier, Brian Cherney, Salvatore Sciarrino, Luciano Berio, Pierre Boulez, David Sanford, and Elliott Carter.

Cellist Matt Haimovitz, above right, and pianist Geoffrey Bursleson will perform at 7:30 p.m. Nov. 20 at the Southern Exposure New Music Series concert in the School of Music Recital Hall. The program will feature masterpieces of contemporary cello music.

