

# Pitt Chronicle

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## Science2006: Feel the Power

By Kelli McElhinny  
and Karen Hoffmann

Four scientists doing ground-breaking research in areas ranging from brain development to alternative fuel sources will give plenary lectures in Pitt's Alumni Hall Auditorium during Science2006: Feel the Power, the University's sixth annual festival of scientific discovery, Oct. 5-6.

The free, public program also will include spotlight sessions presented by scientists from Pitt and Carnegie Mellon University, a technology showcase highlighting recent inventions now available for licensing, a career development workshop for emerging scientists, and various networking and social events.

"The power of science thrives at the University of Pittsburgh and throughout the region," said Arthur S. Levine, Pitt senior vice chancellor for the health sciences and dean of the School of Medicine. "Science2006 will illustrate how researchers are using this power to explore the pivotal biological process of transcription, mine vast data resources, prepare for pandemics in an age of uncertainty, pioneer the frontiers of the human brain, investigate alternative energy sources, and understand the various other topics comprising this year's program—and to creatively apply their findings for society's benefit."

James V. Maher, Pitt provost and senior vice chancellor, said, "Science2006 will clearly celebrate the University of Pittsburgh's role as a scientific leader, demonstrate once again the mutually beneficial collaboration between researchers at Pitt and Carnegie Mellon University, and incorporate presentations by scientists from local industry. One of our most important goals for this event each year is to illustrate the promise that scientific discovery holds for the region's economic development in the near term as well as in years to come."

A complete schedule of Science2006 events and registration information is available at [www.science2006.pitt.edu](http://www.science2006.pitt.edu).

Following are details on the plenary lectures.

### Dickson Prize in Medicine Lecture, "Chromatin and Transcription"

Roger D. Kornberg, Mrs. George A. Winzer Professor of Medicine and professor of structural biology, Stanford University Oct. 5, 11 a.m.

Kornberg's presentation will be based on his research on various components of transcription, the process by which the genetic information encoded in DNA is transferred to the cellular assembly mechanism responsible for protein synthesis. Breakthroughs such as the discovery of the

nucleosome—the unit into which the DNA double helix and associated proteins called histones are compressed to fit within a cell's nucleus—have resulted from Kornberg's work, which has greatly enhanced the understanding of the transcription process and how it is regulated.

Further investigation of the transcription machinery's structure at the molecular level is the focus of Kornberg's current research, along with the structure and function of chromatin, the DNA-protein complex found in the nucleus, and its role in the transcription process.

"You can't understand a machine if you don't know the place of all the pieces,

and our discoveries have helped locate the parts of the machine that makes RNA," Kornberg said. "Our work has accomplished two things—first, an understanding at the atomic level of how transcription occurs and, second, a description of how it is regulated."

Kornberg, the inaugural Mrs. George A. Winzer Professor in Medicine at Stanford, completed his undergraduate education in chemistry at Harvard University and earned his doctorate at Stanford. In 1978, after a postdoctoral fellowship in Cambridge, England, and a brief tenure in the biological chemistry department at Harvard Medical School, Kornberg returned to Stanford,

where he chaired the Department of Structural Biology from 1984 until 1992. He has held his current post since 2003.

The Dickson Prize in Medicine, the most prestigious award presented by Pitt's School of Medicine, recognizes individuals who have made significant, progressive contributions to the field of medicine. Established in 1969 by the estates of Joseph Z. Dickson, M.D., and his wife, Agnes Fischer Dickson, the prize consists of a bronze medal and an award of \$50,000.

### Mellon Lecture, "Dynamic Interplay Between Nature and Nurture in Brain Development"

Carla J. Shatz, Nathan Marsh Pusey Professor and Chair of the Department of Neurobiology, Harvard University Medical School Oct. 5, 4 p.m.

Shatz will discuss how the spontaneous waves of activity generated by certain cells in a developing fetus can initiate the formation of cellular patterns that provide the foundation for sensory perception, which is then further refined after birth by the input of external signals and experience.

Much of Shatz's work has focused on the human visual system. Most recently, she investigated how the visual system is shaped by experience over time, determining that visual deprivation during the "critical period," which lasts roughly from the time a child is nine months old until age 2, can result not only in undeveloped vision but also in diminished activity in genes that respond to visual input.

Since 2000, Shatz has been the Nathan Marsh Pusey Professor and chair of the Department of Neurobiology at Harvard Medical School. After earning her bachelor's degree in chemistry at Radcliffe College and her doctorate in neurobiology at Harvard Medical School, Shatz spent nearly 15 years at the Stanford University School of Medicine before moving to the University of California-Berkeley, where she served as a professor of neurobiology. In 1994, she was named a Howard Hughes Medical Institute investigator.

Among Shatz's numerous professional accomplishments is her election to the American Academy of Arts and Sciences, the American Association for the Advancement of Science, and the Institute of Medicine.

The Mellon Lecture was established in 1915 with initial support from Richard B. Mellon and has continued in recent years with support from the Richard King Mellon Foundation. The lectureship provides an opportunity for eminent investigators and scholars to lecture at Pitt on the science of medicine.



## Tobias Memorial Service Scheduled for Oct. 10 in Heinz Memorial Chapel

A memorial service for Pitt English Professor Richard C. Tobias is scheduled for 2 p.m. Oct. 10 in Heinz Memorial Chapel. A reception will follow in 501 Cathedral of Learning.

Tobias, who was beginning his 49th year as a Pitt faculty member, died of cancer Sept. 13.



### Transportation Survey Posted At New URL

Pitt officials are encouraging faculty and staff members to complete an online Oakland transportation survey. Survey responses will be used to develop a comprehensive model of the transportation system in Oakland.

A Sept. 12 letter to the University community stated that the survey could be accessed through the my.pitt.edu Web portal. Quicker access is now available: Simply visit [www.pitt.edu/trafficsurvey](http://www.pitt.edu/trafficsurvey).

Pitt is facilitating the survey on behalf of the Allegheny Conference's Oakland investment committee, made up

of representatives of Pitt, Carnegie Mellon University, the Carnegie Museums of Pittsburgh, UPMC, the Heinz Endowments, and the Richard King Mellon Foundation. The survey, being conducted by Trans Associates in cooperation with the Allegheny Conference, is part of a series of surveys designed to create new transit options based on existing traffic patterns and the projected growth of Oakland's economy.

### Poet Gabeba Baderoon To Give Reading Here

Poet Gabeba Baderoon will give a free public reading as part of the Pittsburgh Contemporary Writers Series at 8:30 p.m. Oct. 4 in 501 Cathedral of Learning.

An internationally renowned poet, Baderoon grew up in Crawford and Athlone, South Africa. She earned the Ph.D. degree in English at the University of Cape Town; her thesis was on the images of Islam in South African media, literature, and art. Baderoon's work has been published in two anthologies—*Worldscapes* (Oxford University Press, 2005) and *Ten Hallam Poets* (Mews Press, 2005)—and her own collections are *The Dream in the Next Body* (Kwela/Snailpress, 2005), *The Museum of Ordinary Life* (DaimlerChrysler, 2005), and most recently, *A Hundred Silences* (Kwela/Snailpress, 2006).

Baderoon has received numerous honors and awards, including the 2005 DaimlerChrysler Award for South African poetry. She has held fellowships at the African Gender Institute at the University of Cape Town, Pennsylvania State University, and the Oxford Institute for Islamic Studies.

The Pittsburgh Contemporary Writers Series, which runs through April 4, is cosponsored by the Wyndham

Garden Hotel-University Place and Pitt's Book Center, University of Pittsburgh Press, and Creative Nonfiction and Film Studies Programs. For more information, call 412-624-6505 or visit [www.english.pitt.edu](http://www.english.pitt.edu).

—Audra Sorman

### Nocturnal Wanderer to Open Pitt Rep Season

Nobel Laureate Gao Xingjian's haunting tale, *Nocturnal Wanderer*, will open the University of Pittsburgh Repertory Theatre's 2006-07 season with a preview performance at 8 p.m. Oct. 4 in the Studio Theater, located in the basement (B-72) of the Cathedral of Learning. The production will continue through Oct. 15.

In the play, a man wandering the streets of urban China in the middle of the night is confronted by a prostitute, a homeless man, and a thief. When the prostitute is found murdered, the blame shifts to the wanderer.

"*Nocturnal Wanderer* is not a story, but a dream. It is a dream about restlessness, isolation, brutality, and blame," said director Paul "Spike" Wilson. "Simple in plot but powerful in meaning, Xingjian's play encourages human detachment from violence as an *acceptable* reality, as a regularity in life. Once that detachment is achieved, a dream state, in which reality fluctuates, becomes a powerful exploratory tool. As perceptions shift, we can see the mechanisms, the source, the root of human violence, and come a step closer to ending it."

For ticket information, call 412-624-PLAY (7529) or visit [www.play.pitt.edu](http://www.play.pitt.edu).

—Yvonne Hudson

### UCLA Professor to Give Lecture on "The Jewish Question and the Crisis of Postcolonial Culture"

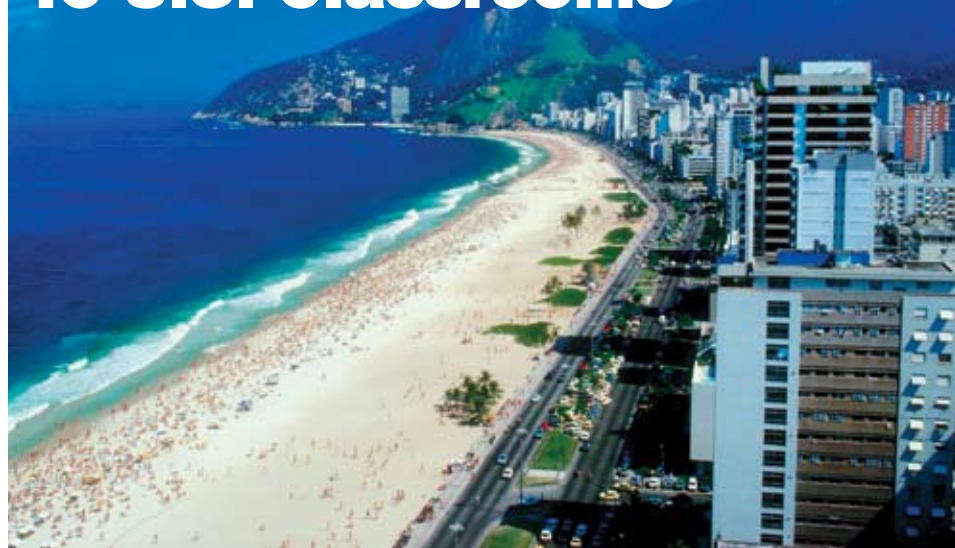
Aamir Mufti, an associate professor of comparative literature at the University of California, Los Angeles, will deliver a free public lecture titled "The Jewish Question and the Crisis of Postcolonial Culture" at 4 p.m. Oct. 5 in 501 Cathedral of Learning. Pitt Distinguished Professor Paul A. Bové, editor of the Pitt literary journal *boundary 2*, is coordinating this event.

Mufti specializes in colonial and postcolonial literature, with a primary focus on India and Britain and 20th-century Urdu literature. His scholastic interests lie in Marxism and aesthetics, genre theory, canonization, minority cultures, exile and displacement, the cultural politics of Jewish identity in Western Europe, human rights, refugees and the right to asylum, modernism and fascism, language conflicts, and the history of anthropology.

Published by Duke University Press, *boundary 2* is an international journal of literature and culture, available in print or online. Primary funding of its Pitt-based editorial office comes from Pitt School of Arts and Sciences' Dean N. John Cooper.

—Audra Sorman

## From Northeastern Brazil To U.S. Classrooms



PHOTOS.COM

Western Pennsylvanian teachers developing lessons based on research during University-funded trip

By Amanda Leff

One of Kathy Talipan's more vivid memories of her Pitt-funded trip to Brazil last summer is of the time she and several fellow teachers took a group of orphans to a mall in the town of Recife, where they dined and played video games. "It was such a fulfilling experience to be able to give to kids who have so little," says Talipan, a middle school Spanish teacher in the Bethel Park School District.

Susan Smith, a reading and math curriculum coach in Phillips Elementary School who formerly taught Spanish, recalls watching members of the nongovernmental organization Pro-Crianca teaching Brazilian students the Maracatu, a traditional dance of African origin. "Some students drummed the beat, some danced with enthusiasm, and a few others represented an African king and queen with their court," Smith says.

Talipan and Smith were among the dozen K-12 teachers from Western Pennsylvania who participated in a teacher-training program in Brazil last summer, thanks to Pitt's Center for Latin American Studies (CLAS).

The program was funded by a \$82,000 grant to CLAS from the U.S. Department of Education's Fulbright-Hays Group Project Abroad program. The trip was a major component of the CLAS outreach project called "Northeastern Brazil: People, Culture, and History." CLAS, one of 18 National Research Centers on Latin America as designated by the U.S. Department of Education, conducted the project to research and collect materials to be used in the design of interdisciplinary lessons and activities. These lessons will eventually be integrated into U.S. middle and high school world language and social studies classrooms.

Prior to departing for the Brazilian states of Pernambuco and Bahia, participating teachers attended a Pitt-sponsored seminar during which they were introduced to Brazilian Portuguese and cultural aspects of Northeastern Brazil. Also during the seminar, a curriculum design specialist guided teachers in selecting research projects to pursue during their trip. Project topics, which will be incorporated into lesson plans, ranged from *futebol* to the history of slavery to current living conditions of African Brazilians.

After arriving in Olinda, Pernambuco, the teachers continued to study Brazilian Portuguese and practiced the language in marketplaces, restaurants, and public libraries. Visits to private and public schools gave the teachers opportunities to meet with people who play vital roles in education in Northern Brazil, including Mozart Neves Ramos, the Secretary of Education for the state of Pernambuco, and Thereza Maria Paes Barreto dos Santos, administrator of Ginasio Pernambucano, a model school.



Pittsburgh public school teacher Susan Smith (right) and curriculum design specialist Leonard Donaldson (left) converse with high school students in Recife, Brazil.

Now that the teachers have settled into a new school year, they are beginning to design lessons based on their Brazilian research. These lessons will enrich existing secondary school courses and will be distributed nationally through CLAS' Web site and outreach program.

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# Surprising Milestone: Cloned Mice Created From Fully Differentiated Cells

*Studies discover that differentiated cells are more efficient than stem cells for somatic-cell nuclear transfer*

By Lisa Rossi

New research dismisses the notion that adult stem cells are necessary for successful animal cloning, proving instead that cells that have completely evolved to a specific type not only can be used for cloning purposes, but they may be a better and more efficient starting point.

As proof, researchers report they created two mouse pups from a type of blood cell that itself is incapable of dividing to produce a second generation of its own kind.

This is the first demonstration that an animal can be derived directly from a fully differentiated cell, report lead researchers Tao Cheng of Pitt and Xiangzhong Yang of the University of Connecticut in the journal *Nature Genetics*.

Moreover, they say, results of their studies provide compelling evidence that Dolly the sheep and other mammals cloned by somatic-cell nuclear transfer were most likely derived from fully differentiated cells—not adult stem cells, as most have argued in the nine years since Dolly was cloned.

Because stem cells can self-renew and differentiate into any specialized cell type, they have been heralded for their promise for treating a variety of diseases and conditions. Yet, even for cloning of an embryo to the blastocyst stage—from which embryonic stem cells can be generated—adult stem cells have yielded disappointing results, with success rates in the range of 1 to 5 percent.

Somatic-cell nuclear transfer (SCNT), the scientific term for cloning, involves creating an embryo by using a nucleus that's been removed from a somatic cell (any cell other than a reproductive cell) and transferring it into an unfertilized egg that has had its chromosomes removed. Because the resulting new embryo contains the entire genome of the donor somatic cell, it is an identical copy. This cloned embryo is then implanted into a surrogate mother, and, if the process is successful, is carried to term.

In their studies, the researchers compared the efficiency for cloning mice using a fully differentiated blood cell called a granulocyte with its ancestor cells at different stages: hematopoietic stem cells, which are found in bone marrow and give rise to all red and white blood cells, and progenitor cells. Granulocytes are well-characterized white blood cells unique for their segmented nuclei and the numerous granules in the cells' cytoplasm.

Surprisingly, the granulocytes were the most efficient donor cells for nuclear transfer among the different lineage cells, with 35 to 39 percent becoming a blastocyst, an early embryo consisting of about 100 to 150 cells, compared with 11 percent for the progenitor cells and only 4 percent for the stem cells.

Only the granulocytes were able to produce two live cloned pups, although both died within a few hours of birth. As a control, the researchers performed nuclear transfer using embryonic stem cells; 49 percent developed to the blastocyst stage and 18 cloned pups were born.

"Even we were surprised to find fully differentiated cells were more efficient for cloning, because granulocytes are not capable of dividing," said co-corresponding

author Cheng, associate professor of radiation oncology in Pitt's School of Medicine and director of stem cell biology and coleader of the University of Pittsburgh Cancer Institute's cancer stem cell program. "In fact, we repeated our experiments six times just to be sure. Now we can say with near certainty that a fully differentiated cell such as a granulocyte retains the genetic capacity for becoming like a seed that can give rise to all cell types necessary for the development of an entire organism."

"Our results clearly demonstrate that there is no apparent advantage in using either adult stem cells or progenitor cells over fully differentiated cells as nuclear donors. To the contrary, we found that cloned pups can be produced from adult, fully differentiated somatic cells, a conclusion that goes against popular opinion and current hypotheses," said Yang, animal science professor, director of the University of Connecticut's Center for Regenerative Biology, and co-corresponding author of the study.

Previous attempts by scientists to produce animal clones directly from fully differentiated B cells, T cells, and neurons had failed beyond the blastocyst stage. Only with a second step that involved combining the blastocyst with a fertilized embryo, which produces what biologists call a chimera, or by performing another nuclear transfer using the embryonic stem cells derived from these blastocysts, could "cloned" pups be produced. Even so, other researchers have countered these are not bona fide clones because they possess chromosomes that are not identical to those of the original donor nucleus.

Since Dolly, animal cloning using adult cells has been accomplished in more than a dozen mammalian species, but the process is highly inefficient. Even if the reconstructed eggs survive to the blastocyst stage, only a handful, at most, of these result in live young when implanted into a female.

Many have attributed cloning's limited success to a theory that clones must be derived from adult stem cells, which reside in a specific area of each tissue and remain quiescent until they are activated by the presence of disease or tissue injury. Yet, if this were true, Cheng and Yang point out, the results of their studies would have found the adult stem cells to be more efficient than the other, more differentiated cells.

"Of the 1,828 nuclear transfers we performed with stem cells, very few could develop to the blastocyst stage and not one clone was produced," Yang noted. "With such odds, it's hard to believe that Dolly and other cloned animals could have possibly been derived from adult stem cells. Much more likely is that these animals were derived from fully differentiated tissue cells."

While more research is needed to determine if what they found with hematopoietic cells will be true for cells of other tissue types, the investigators say their current studies may have important implications for regenerative medicine, since

the findings suggest the potential of adult stem cells in this arena may be more limited than previously thought.

However, of particular interest to Cheng is the relevance of their findings to cancer stem cell research.

"An interesting question to me is whether SCNT can play a role in understanding or even reprogramming the behavior of cancer stem cells. Such studies may potentially reveal a new set of molecular targets that could aid in the treatment of cancer," Cheng said.

## Pitt Forms New Center to Accelerate Global Research, Outreach Efforts on Healthy Aging

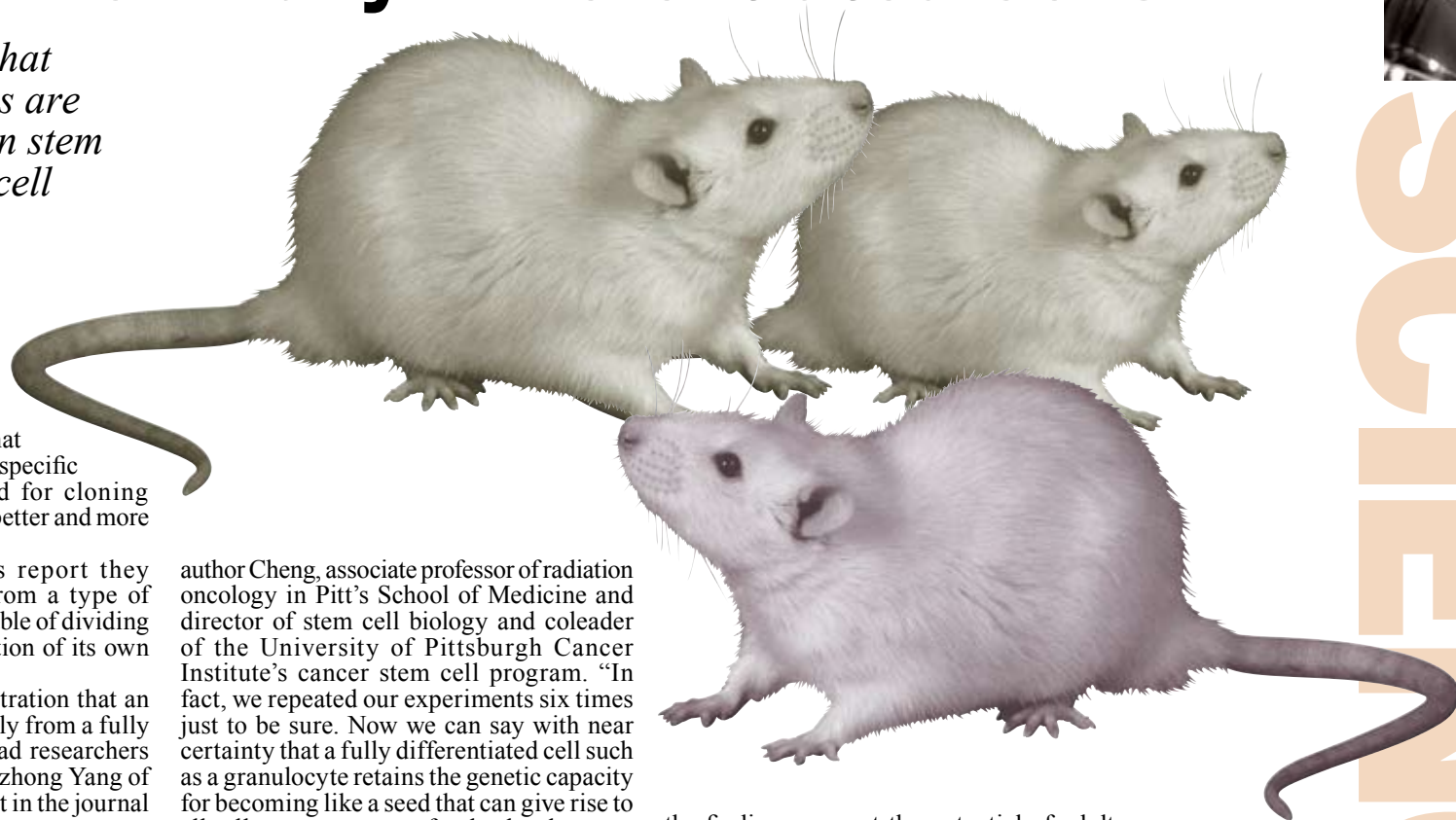
*Internationally recognized researcher on aging Anne B. Newman to head new center in GSPH*

By Jim Swyers

Striving to apply recent scientific advances in understanding the determinants of healthy aging, Pitt's Graduate School of Public Health (GSPH) has announced the formation of a new Center for Aging and Population Health (CAPH), which will be led by Anne B. Newman, a GSPH professor of epidemiology and medicine.

Internationally renowned for her work in the epidemiology of aging, longevity, and disability, Newman has established that the potential for healthy aging far exceeds previous expectations.

"Previously, aging research focused on preventing advanced disability," Newman said. "However, we and others recently have found important medical, behavioral, and genetic determinants of healthy aging without major disability. Yet, the potential for substantially reducing disease and disability in our elderly population is far from being realized. By forming this center, our goal is to leverage what we know about successful aging and make it possible for a large segment of the U.S. and global population to reach that potential."



On the frontiers of  
**SCIENCE**



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# NEWSMAKERS

Campus

JESSICA DAVIS



**INDABA** Newly inducted Black Action Society (BAS) steering committee members gather with outgoing steering committee members and guest speaker Jeff "Cousin Jeff" Johnson following BAS's "Indaba" ceremony Sept. 15. This annual ceremony marks the official beginning of BAS's calendar year and introduces new members to the organization's mission, history, and vision for the year. BAS held a joint cookout with the National Pan Hellenic Council Sept. 16 to promote fellowship among minority students.

Pictured, from left: BAS adviser Danielle Colbert-Lewis; Adaobi Ezedinma, academic affairs vice chair; Carmen Berkley, political action vice chair; Kyle Hill, Black Active Students Intercollegiate Struggle (BASICS) vice chair; Mennie Eldridge, public relations chair; Martens Roc, outgoing community outreach chair; Sheila Isong, executive assistant; Yannick Skerritt, public relations vice chair; Mario Dones, president; Natalie Lilavois, outgoing executive secretary; Jason Bell, executive secretary; guest speaker Jeff Johnson; Adolph Sims, outgoing financial secretary; Jennifer Blemur, membership chair; Latesha Watson, vice president; Derrick Cephas, political action chair; Joy Coleman, financial secretary; Cameo Rowe (partially visible), assistant editor of BAS's BlackLine; Sharae J. Graham, academic affairs chair; Glynnis Rutland, community outreach chair; Mindy Skelly, fundraising chair; Brianna Smith, programming vice chair; and Stephanie Lilavois, outgoing BlackLine editor-in-chief.

## Superintendent Calls for Raising Academic Achievement

**"This economy is relentlessly cruel to those who are undereducated," said Roosevelt, whose Sept. 26 lecture kicked off the Pitt Center on Race and Social Problems' Buchanan Ingersoll and Rooney Fall 2006 Speaker Series.**



JOE KAPELEWSKI/CIDDE



Calling the disparity in classroom performance between Black and White students in America "the most complex, serious, politically and emotionally charged issue of our time," Pittsburgh Public School Superintendent Mark Roosevelt told a Pitt audience last week that parents, educators, and future teachers and social workers must work together to raise the academic achievement levels of Black as well as White students in city schools.

"This economy is relentlessly cruel to those who are undereducated," said Roosevelt, whose Sept. 26 lecture kicked off the Pitt Center on Race and Social Problems' Buchanan Ingersoll and Rooney Fall 2006 Speaker Series.

While many White students are underachieving, too, the numbers on African American student performance in U.S. public schools are "just plain depressing," Roosevelt said. For example, only 13 percent of Black fourth graders nationally are performing at or above the literacy levels for their grade, he noted.

Racism, poor-quality schools, teachers' differing expectations of Black and White students, and students' home environments all may be working against African American students, according to the superintendent. An urban youth culture that "emphasizes swagger more than it does work" also is "hugely debilitating," he said.

Roosevelt, who became superintendent of Pittsburgh Public Schools in August 2005, pledged to provide immediate help to students when they begin to fall behind academically and to create smaller classes for high school underclassmen, among other initiatives. "If we don't put the full force of our intellectual and monetary assets behind this issue" of improving public education in the United States, he declared, "it will be the issue that brings this country down."

—Sharon S. Blake

HASSAN WILCOX



**FORGOTTEN ROOTS** Jerome Branche, a professor and director of graduate studies in the Department of Hispanic Languages and Literatures in Pitt's School of Arts and Sciences, facilitated a discussion that accompanied a Sept. 23 screening of *La Raiz Olvidada (The Forgotten Roots)* in Pittsburgh Filmmakers' Melwood Screening Room in Oakland. *La Raiz Olvidada*, which documents the history of Mexico's often overlooked African populations, was part of Women of Visions, Inc.'s *Migrations of the African Diaspora* film series.

## Day of Caring 2006



Pitt volunteers painted a playground wall in Hazelwood as part of the 16th annual Pitt-United Way Day of Caring. Some 400 volunteers from the University volunteered for service projects in neighborhoods near Pitt. Sept. 15 was the official date of Pitt's Day of Caring, but wet weather delayed the playground wall project until Sept. 22.



JASON TOGYER

## Cave Canem's 10th Anniversary Celebrated Here

JIM BURKE/CIDDE



Pitt English Professor Toi Derricotte (above, right) and fellow poets Terrance Hayes (left) and Nikky Finney (center) discussed African American aesthetics and Cave Canem, the celebrated poetry workshop that Derricotte cofounded, during a Sept. 22 celebration at Pitt of the workshop's 10th anniversary.

Cave Canem poets don't answer the question, "Are you a Black poet or are you a poet?" said Derricotte, who observed that racism fragments the ego, while writing heals. Cave Canem poets "have the hunger to get better and to know poetry from all angles," she said. "It has to do with widening the Black aesthetic in all ways."

The 10th anniversary celebration also featured an evening poetry performance by The Black Took Collective, which was formed during a Cave Canem workshop in 1999.

Black Took members emphasized the importance of not allowing dominant aesthetics to quarantine their work. "The 'Black aesthetic' is not a monolith. By virtue of race, we do not know 'X,Y,Z.' There is no easy system of equivalents," said Duriel E. Harris, pictured, left, with fellow Black Took member Dawn Lundy Martin.

—Mary Zangrilli

## Constitution Day Panelists Defend Judicial Jurisdiction



During the University's observation of Constitution Day Sept. 18, Pitt law professor Jules Lobel (above, left) and former federal judges Robert J. Cindrich (to Lobel's left) and Timothy K. Lewis (not pictured) defended judicial independence and criticized a recent movement in the U.S. Congress to usurp jurisdiction over foreigners held in American custody outside the United States.

"Congress seemed poised to eliminate [the U.S. Supreme Court's] habeas corpus jurisdiction for U.S. detainees held overseas, which would be inconsistent with Constitutional traditions and values," Lobel noted.

Habeas corpus reform "is not consistent with judicial culture. If they can do it with these cases [of aliens held in U.S. custody], they will do it with others," said Lewis, an attorney with Schnader, Harrison, Segal, and Lewis in Washington, D.C.

Narrowing judicial jurisdiction endangers civil liberties, argued Cindrich, chief legal officer and general counsel for UPMC.

The discussion followed a screening of a documentary titled "A Conversation on the Constitution," featuring U.S. Supreme Court justices Stephen Breyer and Anthony Kennedy and former justice Sandra Day O'Connor.

—Mary Zangrilli

JIM BURKE/CIDDE



Shown at the 2006 Tina and David Bellet Arts and Sciences Teaching Excellence Award ceremony are (from left to right) Regina Schulte-Ladbeck, professor and associate dean of undergraduate studies; Daniel Mossé, associate professor in the Department of Computer Science; Anthony Bledsoe, lecturer in the Department of Biological Sciences; Tina and David Bellet; and N. John Cooper, professor and dean of the School of Arts and Sciences.

## Bellet Awards Committee Streamlines Process, and Prize Money Is Increased

By Carol Mullen

Since the Tina and David Bellet Arts and Sciences Teaching Excellence Awards were established in 1998, 24 faculty members in Pitt's School of Arts and Sciences have been recognized for teaching innovation and passion, and commitment to students. The honorees represent departments throughout the humanities, natural sciences, and social sciences. But while their disciplines vary, they were all judged to be excellent educators by committees of their peers and students.

The month-long call for nominations for the 2007 Bellet Awards begins today. Students and faculty members may submit nominations to Associate Dean for Undergraduate Studies Regina Schulte-Ladbeck at 140 Thackeray Hall. Faculty members who meet all criteria and who receive three or more nominations will be invited to participate in the first round of review by submitting a dossier.

According to Schulte-Ladbeck, there are some notable changes to this year's nomination process. Also, the prize money has increased.

"We have moved the call for nominations to October and the request for dossiers to the beginning of November," she said. "Our hope is that by starting the process earlier in the year, we will provide candidates with more time to assemble their materials before the end of the term."

The dossier requirements have also been amended. Last year, candidates were required to submit all undergraduate teaching evaluations for the past three years. This year, candidates are limited to submitting evaluations for three recent undergraduate courses.

Another change this year is that representative annotated instructional materials from an undergraduate setting are limited to 10 pages.

In 2007, each Bellet Awardee will receive a one-time prize of \$3,000—up from \$2,000 in the past—and, for the first time, each honoree's department will receive a \$5,000 grant.

"Many of our past honorees donated their prize money back to their departments," explained Schulte-Ladbeck. "We approached the Bellets about incorporating this practice into the administration of the awards, and they were delighted to make the provisions to do so."

Long-time friends and supporters of Pitt, the Bellets have attended every annual recognition dinner for Bellet Award recipients since the first prizes were given in spring 1999. While they are active philanthropists who donate time and resources to a number of causes and organizations, Tina and David Bellet have a special commitment to teachers. This dedication reflects their positive experiences both as students and in front of the classroom: David has been a guest lecturer at Stanford University and Columbia University, and Tina taught for 10 years in New York City.

In a 1998 interview, David Bellet summed up the mission and the motivation behind the Bellet Awards. "Teachers should be acknowledged, rewarded, and encouraged," he said.

Arts and Sciences Dean N. John Cooper said, "This award, made possible by the generosity of our good friends, Arts and Sciences alumnus David Bellet and his wife, Tina, provides an opportunity for us to celebrate the centrality of teaching in our mission as a school of arts and sciences, and the value we place on excellence in teaching as a centerpiece for our vision for the future of the school."

For more information about the Bellet Awards, contact Carol Lynch at clynch@as.pitt.edu.

### To be eligible for a Bellet Award, a faculty member must:

- Be an Arts and Sciences faculty member with a regular full-time appointment who teaches undergraduate students;
- Have taught for three years on the Pittsburgh campus; and
- Receive three or more nominations.

## Science2006: Feel the Power

SCIENCE, continued from page 1

**Klaus Hofmann Lecture**, "Animal Biodiversity and Drug Discovery: Cone Snail Venoms, A Case Study"

*Baldomero M. Olivera, Distinguished Professor of Biology, University of Utah, and adjunct professor, Salk Institute for Biological Studies Oct. 6, 11 a.m.*

Olivera will discuss the possible pharmacological applications of the venom produced by the predatory cone snail *Conus magus*, which contains neurotoxin peptides that are highly specific to their targeted receptors. Many of those receptors are found in neurons, meaning that the peptides could be useful in targeting pain, neurological diseases, and a host of other conditions. Because more than a hundred peptides can be isolated in any single *Conus* species and there are hundreds of varieties of the cone snail, this research has vast potential for drug discovery.

After earning his doctorate in biochemistry at the California Institute of Technology, Olivera began his career at the University of the Philippines. There, limited laboratory resources forced him to find a study subject that was inexpensive and readily available, leading him to the cone snail. Although Olivera's primary research interest lies in the molecular mechanisms of the nervous system and its function, the cone snail remains central to his work. Its peptides have led to the discovery of drugs such as ziconotide, a nonopioid analgesic useful for managing severe and chronic pain.

Olivera is a distinguished professor of biology at the University of Utah and an adjunct professor at the Salk Institute for Biological Studies. In April, he was one of 20 leading research scientists designated as Howard Hughes Medical Institute professors, earning a \$1 million, four-year grant that he plans to use to develop an interdisciplinary undergraduate neuroscience program at the University of Utah and to promote biodiversity awareness among young students in Pacific island nations. The goal of both initiatives is to encourage participants to consider careers in science.

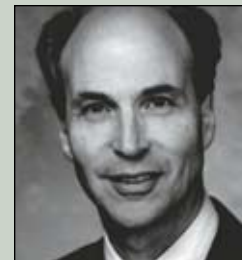
The Klaus Hofmann Lecture is named for a distinguished biochemistry professor who made Pitt his scientific home from 1944 until his death in 1995 at age 84. Within eight years of coming to Pittsburgh, Hofmann had advanced from assistant research professor of chemistry to chair of the Department of Biochemistry in the School of Medicine. He was best known for his contributions to the field of peptides, and his most publicized work dealt with the synthesis of a fully active, shortened form of the pituitary hormone adrenocorticotropin. The Klaus Hofmann Lecture was established by Hofmann's widow, Frances Finn Reichl, in 1999, to recognize a basic scientist whose work has clear clinical relevance.

**Provost Lecture**, "Scientific Challenges in Sustainable Energy Technology"

*Nathan S. Lewis, George L. Argyros Professor of Chemistry and principal investigator of the Beckman Institute Molecular Materials Research Center, California Institute of Technology Oct. 6, 4 p.m.*

Lewis is well known for his groundbreaking work as a chemist and his integrative scientific approach to developing sustainable energy technology. Among his lab's current projects are studies exploring light-induced electron transfer reactions, both at surfaces and in transition metal complexes; the photochemistry of semiconductor/liquid interfaces; new uses for conducting organic polymers and polymer/conductor composites; and the development of sensor arrays from these polymers that identify odors, mimicking the sense of smell in mammals.

Lewis's expertise as a basic scientist provides the foundation for his understanding of the technical, political, and economic challenges involved in breaking society's



Roger D. Kornberg



Nathan S. Lewis



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Carla J. Shatz

dependence on fossil fuels and making the switch to renewable energy sources. His detailed knowledge of the dynamics of energy production and transfer allows him to provide a practical and realistic assessment of the hurdles involved in switching to alternative fuels, such as wind, solar, hydroelectric, nuclear, and geothermal energy.

"We have, at most, 20 years to develop a technology that can cost-effectively produce as much energy in a carbon neutral fashion as we do today from all energy sources combined," Lewis said. "Otherwise, we will be the first generation to guarantee that the planet for the next 3,000 years or more is not the same one we inherited from previous generations of humans. The sun is the grand champion of energy sources and is clearly the only source capable of supplying more energy in a renewable fashion than humans could ever conceive of using on earth."

After earning his Ph.D. in inorganic chemistry at the Massachusetts Institute of Technology in 1981, Lewis was an assistant professor of chemistry at Stanford University before moving to Caltech in 1988 as an associate professor of chemistry. After achieving full professorship in 1991, Lewis was honored as the George L. Argyros Professor in 2002.

Lewis has been recognized as an Alfred P. Sloan Research Fellow, a Camille and Henry Dreyfus Teacher-Scholar, and a Presidential Young Investigator. He received the Fresenius Award in 1990, the American Chemical Society Award in Pure Chemistry in 1991, the Orton Memorial Lecture Award in 2003, and the Princeton Environmental Award in 2003.

The Provost Lecture is presented by Pitt's Office of the Provost.

# Awards & more

• The American Association of Nurse Anesthetists (AANA) has named **John O'Donnell**, director of the nurse anesthesia program in Pitt's School of Nursing, as Program Director of the Year. The recognition is given annually by the AANA Board of Directors for substantial contributions to the profession of nurse anesthesia in scholarship, education, and leadership.

O'Donnell, who also is the associate director for nursing programs in Pitt's Peter M. Winter Institute for Simulation, Education, and Research, received the honor for his incorporation of human simulation into nurse anesthesia education. In addition to his roles at Pitt, O'Donnell has helped to develop numerous simulation-based courses for certified registered nurse anesthetist (CRNA) students and practicing providers at other institutions. He also has mentored other faculty members on the use of simulation in CRNA training and practice.

• **Barbara Shore**, professor emerita in Pitt's School of Social Work, will receive United Cerebral Palsy's (UCP) 2006 Gertrude Labowitz Lifetime Achievement Award at UCP's annual awards dinner Oct. 17.

• **Laurel Roberts**, a lecturer in the Department of Biological Sciences in Pitt's School of Arts and Sciences, was one of 16 microbiologists recognized at the American Society for Microbiology (ASM) Conference for Undergraduate Educators for completing a yearlong residency program to improve student learning in microbiological sciences.

The program brought together faculty committed to investigating and documenting significant issues and challenges in the teaching of microbiology. The residency program began in July 2005 at the four-day Institute on the Scholarship of Teaching and Learning at ASM headquarters in Washington, D.C., and culminated with a presentation at the ASM Conference for Undergraduate Educators in Orlando, Fla., last May.

Pitt biological sciences lecturer **Susan Godfrey** has been accepted into the 2006 class of the residency program.

• **Paul J. Petrovich**, senior technology consultant at the University's Institute for Entrepreneurial Excellence Small Business Development Center, has received the Tibbets Award, a national honor, for his services in connecting Western Pennsylvanian technology innovators with Small Business Innovation Research (SBIR) funding. SBIR is the federal government's largest research and development grant program targeting small businesses.

• **Magee-Womens Hospital** of the University of Pittsburgh Medical Center has received national recognition from Hospitals for a Healthy Environment, a New Hampshire-based organization founded by the U.S. Environmental Protection Agency, the American Hospital and American Nurses associations, and Health Care Without Harm. Magee received the "Making Medicine Mercury Free" award, a one-time citation for hospitals that have nearly eliminated mercury from their facilities. A potent neurological and developmental toxin, mercury can damage human health at extremely low levels. Hospitals can be a major contributor to mercury-air emissions, and hospitals that receive this recognition must meet stringent benchmarks for mercury elimination.

• Pitt School of Nursing faculty members **Lora E. Burke**, **Susan M. Cohen**, and **Marilyn Hravnak** will be among 55 nurse leaders who will be inducted as Fellows of the American Academy of Nursing during the Academy's 33rd Annual Meeting & Conference on Nov. 11. Fellows are chosen based on their contributions to nursing and health care, with specific consideration given to work that has broad implications for health policy affecting all Americans. Burke is a professor in the nursing school's Department

of Health and Community Systems, Cohen is an associate professor in the Department of Health Promotion and Development, and Hravnak is an assistant professor of acute and tertiary care and coordinator of the school's acute care nurse practitioner program.

• **Katherine L. Wisner**, Pitt professor of psychiatry, obstetrics, gynecology, and reproductive sciences, and epidemiology, has been named president-elect of the Marcé Society. Her term as president-elect will run from 2006 to 2008, and she will serve as the society's president from 2008-2010. The Marcé Society is an international society for the understanding, prevention, and treatment of mental illness related to childbearing. A prolific and well-known researcher on the topic of depression during pregnancy and the postpartum period, Wisner directs the Women's Behavioral Health Care program at the Western Psychiatric Institute and Clinic.

• The Pennsylvania Pharmacists Association (PPA) recently recognized two Pitt School of Pharmacy faculty members. Senior Associate Dean **Randall Smith** received PPA's Mortar and Pestle Award for his service to the pharmacy profession, including his work on the Rite Care project, a collaboration between Rite Aid and Pitt's pharmacy school to provide medication therapy management services to patients, and his active involvement in the PPA. **Melissa Somma**, assistant professor in the pharmacy school and director of the Rite Aid/University of Pittsburgh Patient Care Initiative, received PPA's Distinguished Young Pharmacist Award, which is given to a pharmacist who received his or her degree within the past 10 years. Somma was honored specifically for her work in developing patient-care practices in community-based pharmacies.

• At its 24th Annual Testimonial Dinner this month, the Arthritis Foundation, Western Pennsylvania Chapter will present its Physician Achievement Award to **Thomas A. Medsger**, Gerald P. Rodnan Professor of Medicine and chief of the rheumatology division in Pitt's School of Medicine. Medsger was chosen for the honor based on his leadership and dedication to arthritis care and research, particularly his work in the area of systemic sclerosis, or scleroderma. In addition to his other duties, Medsger also directs Pitt's scleroderma research program.

• **Myrna Silverman**, professor emerita in the Department of Community and Behavioral Sciences in Pitt's Graduate School of Public Health, has received Presbyterian SeniorCare's 2006 Samuel K. McCune Award for Distinguished Service. The award recognized Silverman's exceptional services in support of aging-related concerns and for significant positive impact on the lives of elderly Americans. This award is named in honor of former Presbyterian SeniorCare Board Chair and leader, Sam McCune, who served the organization for 34 years.

• A children's book project initiated by **Linda Winkler**, a professor of anthropology and biology at the University of Pittsburgh at Titusville, and Katie Moran, an artist from New York City, has received a 2006 International Rotary grant.

The project is designed to create two children's books with local African cultural content and drawings of community life. One of the books tells the story of a girl named Grace, who lives in Karagwe. The second book is the sequel to an earlier book created by Winkler and her research group for use with children in Tanzanian AIDS-education projects. This sequel tells the story of an AIDS orphan named Adelina.

Winkler and Moran spent May and June in rural Tanzania's Karagwe district developing the book. While there, they were welcomed by members of the Karagwe Rotary Chapter. The grant will be matched with contributions from Rotary clubs in the United States and used to publish books and distribute them to the Karagwe community.

**Pitt's Center for Minority Health was the subject of a feature segment on WQED-TV's On Q program. The segment recently won a 2006 Mid-Atlantic Regional Emmy® Award.**

## Pitt Forms New Center to Accelerate Global Research, Outreach Efforts on Healthy Aging

HEALTHY AGING, continued from page 3

To accomplish this goal, CAPH will incorporate several entities within GSPH's Department of Epidemiology, including the Center for Healthy Aging, the Health Studies Office, and the Epidemiology of Aging training program.

The Center for Healthy Aging, which is funded by a grant from the U.S. Centers for Disease Control and Prevention, conducts health promotion and disease prevention activities targeted toward the older adult population. The Health Studies Office is a clinical research facility for conducting large epidemiological studies and clinical trials. It serves as the field laboratory for trainees in GSPH's Epidemiology of Aging program, which focuses on research to determine factors that cause disability and premature death in older adults and methods for preventing them.

According to Roberta Ness, professor

and chair in the GSPH epidemiology department, the formation of CAPH allows for better collaboration among these entities. In addition, it gives departmental researchers on aging access to greater resources and collaborations both within the University and with researchers at other institutions, nationally and internationally.

"Establishing this center allows us to link population-based research with new techniques in genetics, imaging, and advanced laboratory diagnostics available here at Pitt and at other institutions," said Ness. "In addition, CAPH will allow the Department of Epidemiology to expand its current research programs on aspects of healthy aging and the genetics of longevity and exceptional survival as well as investigations into the determinants of aging in the brain and cardiovascular system."

To extend its global reach, CAPH plans to collaborate with research institutions in Asia, Latin America, and the Caribbean, which are the world's fastest-aging regions; recent projections estimate that the percentage of elderly living in these developing regions of the world will double in the next 20 to 30 years. Without adequate preparation, less developed countries—which already have overburdened health-care systems and few social safety nets—will have difficulty meeting the health-care needs of their growing elderly populations. Therefore, they need better resources and information on how to help people age successfully.

"Our country has had a long time to learn how to deal with its aging population. However, this phenomenon is just beginning in many developing countries and at a much faster rate. Given what we have learned, we have the opportunity to help them prepare for how to deal with this problem," said Donald S. Burke, GSPH dean, Pitt's vice chancellor for global health, and the UPMC-Jonas Salk Professor of Global Health.

One of CAPH's first initiatives will be to hold an international, invitation-only symposium on the topic of successful aging. According to Newman, the primary goal of the symposium will be to gather new knowledge from current national and international population studies on aging.

"We plan to invite aging researchers from around the world to assess both where we are and where we need to go," she said. "Ultimately, we hope this conference will set forth new research goals for learning how to deal with the global aging issue."

## Pitt Opens Curran Center



Pitt School of Pharmacy alumnus John Curran (M.S. '68, Ph.D. '71) and his wife Connie, pictured at left, joined pharmacy school dean Patricia D. Kroboth and Arthur S. Levine, Pitt senior vice chancellor for the health sciences, at the opening of the Dr. John P. and Constance A. Curran Center for Pharmacy Students. The center houses all student affairs functions and activities for the pharmacy school.



## happenings

Oct. 2-Oct. 9, 2006

### Oct. 2

**Lecture**, "Managing the Records of the Parliament," Kimberly Barata, Britain's Parliamentary records manager, 11 a.m., 501 Information Sciences Building, [rjcox@pitt.edu](mailto:rjcox@pitt.edu).

**Pitt-Carnegie Mellon Physics Colloquium**, "Student-Centered Activities for Large Enrollment University Physics" Robert Beichner, assistant professor of physics, North Carolina State University 4:30 p.m., 102 Thaw Hall, [www.phyast.pitt.edu/events](http://www.phyast.pitt.edu/events).

**Musical Performance**, violinist Roger Zahab and pianist Robert Frankenberry, 8 p.m., Bellefield Hall Auditorium, Pitt Department of Music, 412-394-3353, [www.pitt.edu/~concerts/calender/index.html](http://www.pitt.edu/~concerts/calender/index.html).

**Art Exhibition**, *Waking Dreams: The Art of the Pre-Raphaelites*, through Oct. 8, Frick Art and Historical Center, 7227 Reynolds St., 412-371-0600, <http://frickart.org/home>.

**Art Exhibition**, *From Pavement to Paradise: The Urban Revolution of Schenley Plaza*, through Oct. 21, University Art Gallery, Frick Fine Arts Building, [vrcoll.fa.pitt.edu/uag](http://vrcoll.fa.pitt.edu/uag).

**Art Exhibition**, *In To My Self*, featuring works by Ayanah Moor, Wes Kline, Jesse McClean, Lori Felker, Eric Fleischauer, Shaun Slifer, and Steve Summers, addressing issues of self-portraiture and humor, through Oct. 21, Space, 812 Liberty Ave., downtown, [www.spacepittsburgh.org](http://www.spacepittsburgh.org).

**Art Exhibition**, *In the Dwelling-House*, an installation by Ruth Stanford, through Oct. 22, Mattress Factory, 500 Sampsonia Way, North Side, 412-231-3169, [www.mattress.org](http://www.mattress.org).

**Photography Exhibition**, *It's a Dog's Life: Photographs by William Wegman*, through Nov. 4, Silver Eye Center for Photography, 1015 E. Carson St., South Side, 412-431-1810, [www.silvereye.org](http://www.silvereye.org).

**Art Exhibition**, *Henri Matisse: The Thousand and One Nights*, through Nov. 22, Carnegie Museum of Art, 4400 Forbes Ave., Oakland, 412-622-3131, [www.cmoa.org](http://www.cmoa.org).

**Photography Exhibition**, *The American Tintype*, featuring tintypes from Photo Antiquities' collection, through Dec. 31, 531 E. Ohio St., North Side, 412-231-7881.

**Photography Exhibition**, *Roberto Clemente: Photographs by Les Banos*, through Dec. 31, John Heinz Pittsburgh Regional History Center, 1212 Smallman St., Strip District, 412-454-6000, [www.pghhistory.org](http://www.pghhistory.org).

**Natural History Exhibition**, *Amazon Voyage: Vicious Fishes and Other Riches*, through Jan. 7, Carnegie Museum of Natural History, 4400 Forbes Ave., Oakland, 412-622-3131, [www.CarnegieMNH.org](http://www.CarnegieMNH.org).

### Oct. 3

**Lecture**, "To Save Fort Pitt: A National Historic Landmark Under Siege in the 21st Century," Michael V. Nixon, national historic preservation lawyer and consultant, noon-1 p.m., Anthropology Lounge, 3106 Posvar Hall, Pitt Department of Anthropology, [www.pitt.edu/~ljl4](http://www.pitt.edu/~ljl4).

**Pitt Wellness Program Seminar**, "Managing Stress with Cardiac Coherence Training," Ron Glick, medical director of the UPMC Center for Integrative Medicine, noon, William Pitt Union's Kurtzman Room, [www.pitt.edu/~wellpgm](http://www.pitt.edu/~wellpgm).

**Center for Philosophy of Science Lunchtime Talk**, "Quantum Symbolism: A Kantian Aspect of Bohr's Thought," Hernán Pringe, Department of Philosophy, University of Dortmund, 12:05 p.m., 817R Cathedral of Learning, [www.pitt.edu/~pittcntr](http://www.pitt.edu/~pittcntr), 412-624-1052.

**Titusville Spotlight Series Performance**, variety performer Craig Karges blending mystery, humor, psychology and intuition; 7:30 p.m., Pitt-Titusville's Henne Auditorium, 814-827-4503.

### Oct. 4

**Western Psychiatric Institute and Clinic Conference**, "Effective Treatment of Affective Disorders: Partnership, Innovation, and Promise," 8 a.m.-12:15 p.m., featuring keynote address, "A Brilliant Madness: Living with Manic Depressive Illness" by Patty Duke, actress and mental health advocate; Ronald B. Herberman Conference Center, UPMC Cancer Pavilion's 2nd floor, 5150 Center Ave., Shadyside, registration required; e-mail Kyessa Brian at [briankl@upmc.edu](mailto:briankl@upmc.edu).

**Lecture**, "Counting Women/Women Who Count: Gender as Commodity in the Post-Soviet Cuban Literary Sphere," Barbara Riess, assistant professor of modern and classical languages, Allegheny College noon, 2201 Posvar Hall, 412-624-6485, [www.pitt.edu/wstudies](http://www.pitt.edu/wstudies).

**Lecture**, "The Evolving Role of the Military in Homeland Security," D. Barbisch, director, The Institute for Global and Regional Readiness, 3 p.m., Alumni Hall's 5th floor, Pitt's Center for National Preparedness, [www.cnp.pitt.edu](http://www.cnp.pitt.edu).

**Theatrical Performance**, *Nocturnal Wanderer* by Gao Xingjian, directed by Paul Wilson, 8 p.m., continues through Oct. 15, Studio Theatre, (B-72 Cathedral of Learning), Pitt Repertory Theatre, 412-624-7529, [www.play.pitt.edu](http://www.play.pitt.edu).

**Pittsburgh Contemporary Writers Series Reading**, poet Gabeba Baderoon, 8:30 p.m., 501 Cathedral of Learning, 412-624-6506, [www.english.pitt.edu](http://www.english.pitt.edu).

### Oct. 5

**Dickson Prize in Medicine Lecture**, "Chromatin and Transcription," Roger D. Kornberg, Mrs. George A. Winzer Professor of Medicine at Stanford University, 11 a.m., part of Pitt's Science2006: Feel the Power;

[www.science2006.pitt.edu](http://www.science2006.pitt.edu). (For details, see p.1.)

**Asia Over Lunch Lecture**, "Working Toward an East Asian Community," Pitt Ph.D. candidate Yasu Komori, noon, 4130 Posvar Hall, Pitt Asian Studies Center, 412-648-7763.

**Lecture**, "An Extended Field Season on Mars: Exploring Gusev Crater with the Mini-TES Instrument," Steven Ruff, faculty research associate in Arizona State University's School of Earth and Space Exploration, 4 p.m., Thaw Hall's Room 11, [www.geology.pitt.edu](http://www.geology.pitt.edu).

**Lecture**, "The Jewish Question and the Crisis of Postcolonial Culture," Aamir Mufti, professor of comparative literature, University of California, 4 p.m. (For details, see p. 2.)

**Mellon Lecture**, "Dynamic Interplay Between Nature and Nurture in Brain Development," Carla J. Shatz, Nathan Marsh Pusey Professor and chair of Harvard University's Department of Neurobiology, 4 p.m., part of Pitt's Science2006: Feel the Power; [www.science2006.pitt.edu](http://www.science2006.pitt.edu). (For details, see p.1.)

**Theatrical Performance**, *The Good Body* by Eve Ensler, 8 p.m., continues through Oct. 29, City Theatre Company, 1300 Bingham St., South Side, 412-431-2489, [www.citytheatrecompany.org](http://www.citytheatrecompany.org).

### Oct. 6

**Klaus Hofmann Lecture**, "Animal Biodiversity and Drug Discovery: Cone Snail Venoms, a Case Study," Baldomero Olivera, distinguished professor of biology, University of Utah, and adjunct professor, Salk Institute for Biological Studies; 11 a.m., part of Pitt's Science2006: Feel the Power; [www.science2006.pitt.edu](http://www.science2006.pitt.edu). (For details, see p. 6.)

**Lecture**, "Beating the System or Fixing It? International Legal Institutions and Trade Cooperation Under Anarchy," Daniel Y. Kono, assistant professor of political science, University of California at Davis, noon, 4501 Posvar Hall, 412 648-5330 or [lsa@ucis.pitt.edu](mailto:lsa@ucis.pitt.edu)

**Ph.D. Dissertation Defense** by E. Sue Lehman-Trzynka, Pitt School of Nursing, "Psychological and Physiological Predictors of Adherence to Antiretroviral Medications for Women with HIV/AIDS," 12:30 p.m., 451 Victoria Building, [www.nursing.pitt.edu](http://www.nursing.pitt.edu).

**Provost Lecture**, "Scientific Challenges in Sustainable Energy Technology," Nathan S. Lewis, George L. Argyros Professor, professor of chemistry, and principal investigator of the Beckman Institute Molecular Materials Resource Center at the California Institute of Technology, 4 p.m., part of Pitt's Science2006: Feel the Power, [www.science2006.pitt.edu](http://www.science2006.pitt.edu). (For details, see p. 6.)

**Center for Philosophy of Science Lunchtime Talk**, "Learning From a Simulated Universe: The Limits of Virtual Experiments in Astrophysics and Cosmology," Stéphanie Rupy, Department of Philosophy, University of Provence, 12:05 p.m. 817R Cathedral of Learning, [www.pitt.edu/~pittcntr](http://www.pitt.edu/~pittcntr), 412-624-1052.

**Jazz Performance**, guitarist Joe Negri, 5:30 p.m., Carnegie Library of Pittsburgh, 4400 Forbes Ave., Oakland, 412-622-8872, [www.carnegielibrary.org](http://www.carnegielibrary.org).

**Poetry Reading**, "Ovid Night," featuring readings of the Roman poet, 7 p.m., Babcock Room, Cathedral of Learning (40th floor), register at [elc@pitt.edu](mailto:elc@pitt.edu).

**Ballet Performance**, *Carmen*, 7:30 p.m., through Oct. 9, Benedum Center, 719 Liberty Ave., downtown,

[www.pittsburghballettheatre.org](http://www.pittsburghballettheatre.org), 412-281-0360, [www.pbt.org](http://www.pbt.org).

**Comedy Performance**, Steve Couette, 9 p.m., University Room, Pitt-Bradford, 814-362-7500, [www.upb.pitt.edu/students/index.htm](http://www.upb.pitt.edu/students/index.htm).

**Art Exhibition**, "A Sense of Place: Recent Work by Six Contemporary African American Artists," through Dec. 9, University Art Gallery, Frick Fine Arts, <http://vrcoll.fa.pitt.edu/uag>.

### Oct. 7

**Book Signing** by Marianne Novy, author and Pitt professor of English and Women's Studies, 3:30 p.m., 501 Cathedral of Learning, 412-624-6485, [www.pitt.edu/~wstudies/news.html](http://www.pitt.edu/~wstudies/news.html).

**Pittsburgh Shakespeare in the Park**, *A Midsummer Night's Dream*, 2 p.m. Oct. 7, 8, 15 and 16, Frick Park, Squirrel Hill, 412-904-2179.

**Dance Performance**, Paul Taylor Dance Company, 8 p.m., Benedum Center, 719 Liberty Ave., downtown, Pittsburgh Cultural Trust, [www.ptdc.com](http://www.ptdc.com), 412-456-6666.

### Oct. 8

**Pitt Asian Studies Center Film Screening**, *Kashmir: Valley of Despair*, directed by Marion Mayer-Hohdahl, 10 p.m., Sutherland Hall's International Studies Living Learning Community Lounge, 412-648-2113.

### Oct. 9

**Pitt Graduate School of Public Health Open House**, for prospective students; meet faculty and staff; learn about career opportunities, financial aid, departments, and programs, 114 Parran Hall, 412-624-5200, [www.publichealth.pitt.edu/admissions/open\\_house.html](http://www.publichealth.pitt.edu/admissions/open_house.html).

**Lecture**, "Speaking With the Silent Majority: Unculturable Bacteria in Microbial Communities From Soil and Insect Guts," Jo Handelsman, head of the Handelsman Lab, University of Wisconsin-Madison's Department of Plant Pathology, 4:15 p.m., 169 Crawford Hall, [www.pitt.edu/~biology](http://www.pitt.edu/~biology).

**Pitt-Carnegie Mellon Physics Colloquium**, "Micro-wave Solutions in Magnetic Thin Films—Nonlinear Spin Wave Dynamics, Fractals, and Chaos," Carl Patton, professor of physics, Colorado State University, 4:30 p.m., 7500 Wean Hall, Carnegie Mellon University, [www.phyast.pitt.edu/events](http://www.phyast.pitt.edu/events).

**Lecture**, "The Conundrum That Is the Kashmir Problem," Richard Cohen, associate director of Pitt's Asian Studies Center, 9 p.m., Sutherland Hall's International Studies Living Learning Community Lounge, 412-648-2113, [eel58@ucis.pitt.edu](mailto:eel58@ucis.pitt.edu).

**Art in China Exhibition**, *The Beginning*, through Oct. 31, Pitt-Greensburg's Millstein Library, 724-836-7497, [www.upg.pitt.edu](http://www.upg.pitt.edu).

**PUBLICATION NOTICE** The next edition of the *Pitt Chronicle* will be published Oct. 9. The deadline for submitting information is 5 p.m. Oct. 5. Items for publication in the *Pitt Chronicle*, including information for *Happenings*, should be submitted to [chron@pitt.edu](mailto:chron@pitt.edu). *Happenings* items should include the following information: title of the event, name and title of speaker(s), date, time, location, sponsor(s), and a phone number and Web site for additional information. Items also may be faxed to 412-624-4895 or sent by campus mail to 422 Craig Hall. For more information, call 412-624-1033.