

## Pitt Cardiologist Barry London Receives NIH Pioneer Award



Barry London

By Maureen McGaffin

Barry London, the Harry S. Tack Professor of Medicine and chief of the Division of Cardiology in Pitt's School of Medicine, was named one of 16 NIH (National Institutes of Health) Director's Pioneer Award recipients at the 2008 Pioneer Award Symposium on NIH's Bethesda, Md., campus. London is the first Pitt faculty member to receive the distinction.

The award gives London, who also is director of the UPMC Cardiovascular Institute, \$2.5 million in direct costs from the NIH to conduct novel experiments to better identify patients at high risk for sudden cardiac arrest, for which no reliable

drugs currently exist.

London and colleagues will develop two revolutionary techniques to image electrical activity in the heart. In the first project, London will adapt the most common clinical imaging technique, which is two-dimensional echocardiography (ultrasound imaging of the heart), to detect electrical activity of the heart in real time. In the second project, London and his colleagues will develop a modified adult stem cell implant to detect nervous system activity affecting the heart.

He will collaborate with Flordeliza Villanueva, a Pitt professor of medicine

and director of noninvasive cardiac imaging and the Center for Ultrasound Molecular Imaging and Therapeutics at the UPMC Cardiovascular Institute.

Villanueva and her colleagues at the center will develop an electrically sensitive microbubble contrast agent, which is a tiny, inert gaseous bubble injected into the bloodstream. When it is applied to ultrasound imaging, the microbubble will visualize electrical activity within the heart muscle. "London's concept of using microbubbles to noninvasively see pathways of electrical conduction in the beating heart is an ingenious idea," Villanueva said. "This project truly embodies the spirit of the Pioneer Award to support high-impact, innovative work," she added. If successful, the research will then be applied to humans.

NIH Director Elias A. Zerhouni said the Pioneer Awards, given to scientists at any career level, and New Innovator Awards, aimed at early-career scientists, "are central elements of NIH efforts to encourage and fund especially novel investigator-initiated research, even if it might carry a greater than usual degree of risk of not succeeding."

In 2007, Pitt assistant professor of psychiatry and pediatrics Eva M. Szigethy was one of the 29 initial recipients of the NIH Director's New Innovation Awards, which carry a \$1.5 million grant in direct costs. Her project was titled "Understanding and Treating Neuropsychiatric Symptoms of

Pediatric Physical Illness."

This year's 15 other Pioneer Award recipients are faculty researchers at the California Institute of Technology; Harvard, Northwestern, Princeton, and Stanford universities; the Massachusetts Institute of Technology; Santa Fe Institute; and the University of Pennsylvania.

"Highly creative biomedical research, such as London plans to conduct with his well-deserved Pioneer Award, not only exemplifies the kind of great science that we value so much here at the University of Pittsburgh but also, in this case, holds tremendous promise for clinical advances," said Arthur S. Levine, senior vice chancellor for the health sciences and dean of the School of Medicine. "Developing novel and innovative tools to study arrhythmias and better identify those patients who are at risk of unexpected cardiac death holds the potential to save countless lives."

**"Highly creative biomedical research, such as London plans to conduct with his well-deserved Pioneer Award, not only exemplifies the kind of great science that we value so much here at the University of Pittsburgh but also, in this case, holds tremendous promise for clinical advance."**

—Arthur S. Levine

Arrhythmias are a major cause of morbidity and mortality, with more than 250,000 people dying from sudden death each year in the United States. If successful, both techniques will increase understanding of arrhythmias, improve better identification of patients at risk for sudden death, and guide therapeutic interventions. Thus, identifying novel tools to study arrhythmias in vivo and stratify arrhythmic risk would represent a major advance in cardiovascular care.

## Pitt Researchers Find Stronger Evidence That Virus Causes Deadly Skin Cancer

By Anita Srikameswaran

University of Pittsburgh scientists are uncovering more evidence that a virus they recently discovered is the cause of Merkel cell carcinoma, an aggressive and deadly form of skin cancer.

The findings, published in an online edition of the *Proceedings of the National Academy of Sciences*, put to rest the possibility that Merkel cell polyomavirus, or MCV, infects tumors that already have formed. If that were the case, the virus would be a passenger rather than the driver of the disease.

Experiments in human tumors reveal that the cancer develops in two steps: During infection, MCV integrates into host cell DNA and produces viral proteins that promote cancer formation. Tumors occur when a mutation removes

part of a viral protein needed for the virus to reproduce and infect other healthy cells,

**"MCV infects normal cells before they turn into cancer cells. The virus could not have infected a tumor afterwards, because it can no longer replicate. It looks very much like MCV is the culprit that causes the disease."**

—Patrick Moore

explained senior investigator Patrick Moore, professor of microbiology and molecular genetics in Pitt's School of Medicine and director of the Molecular Virology Program at the University of Pittsburgh Cancer Institute. The virus then can spread only as the cancer cells themselves multiply.

Clearly, "MCV infects normal cells before they turn into cancer cells," Moore said. "The virus could not have infected a tumor afterwards, because it can no longer replicate. It looks very much like MCV is the culprit that causes the disease."

The researchers propose two possible reasons why these mutations develop: If viral replication continues, the immune system could recognize the intruder to

eliminate diseased cells, or the viral replication itself will lead to the death of the cancer cells. Both of these possibilities provide promising leads to find better ways to kill Merkel cell cancer cells without harming healthy tissues.

Also, "this research shows evolution within tumors on a molecular level," Moore said. "You can see the specific molecular steps." The team's current work could account for such known risk factors for Merkel cell carcinoma as UV exposure and ionizing radiation, which damage DNA and can lead to the viral mutations.

Merkel cell cancers are rare, occurring in about 1,500 Americans annually. Half of patients who have advanced disease die within nine months of diagnosis, and two-thirds of them die within two years. The elderly and people with compromised immune systems are at greater risk of developing the cancer, which arises in skin nerve cells that respond



Patrick Moore



Yuan Chang

to touch or pressure.

In a paper published in *Science* in January, Moore and his wife, Yuan Chang, who codirects their lab, reported their identification of the virus and that it could be found in 80 percent of Merkel cell tumors. They cautioned that although up to 16 percent of the population carries MCV, very few will develop cancer.

There is no treatment for MCV infection right now, but identifying the agent and understanding how it triggers disease could lead to targeted interventions, Moore said.

Coauthors of the study are Masahiro Shuda, Huichen Feng, Hyun Jin Kwun, Ole Gjoerup, and Yuan Chang, all of the Molecular Virology Program at the University of Pittsburgh; and Steven T. Rosen of Northwestern University. Funding for this research was provided by a grant from the University of Pittsburgh EXPLORER fund.

# Briefly Noted



Sculpture by Derry Sean

## Pitt Studio Arts Faculty to Exhibit Work Oct. 1-Nov. 21

Pitt's Department of Studio Arts will present its 2008 Faculty Exhibition Oct. 1 through Nov. 21 in the University Art Gallery, Frick Fine Arts Building. An opening reception will be held there from 4 to 6 p.m. Oct. 1.

The exhibition offers the unique and diverse perspectives of 14 Pitt faculty artists whose work has earned regional, national, and international recognition. Their art also has been a major part of the Pittsburgh art scene, included in exhibitions at the Carnegie Museum of Art and the Mattress Factory, among other city venues. Two of the exhibiting artists are Guggenheim Foundation Fellows, and two have been honored as "Artist of the Year" with exhibitions at the Pittsburgh Center for the Arts.

Nine faculty members will offer Noon Gallery Talks in the University Art Gallery. The schedule follows:

- Oct. 8—Lenore Thomas and Barbara Weissberger;
- Oct. 22—Kenneth Batista and Michael Morrill;
- Nov. 05—Sean Derry, Anna Divinsky, and JoAnna Commandaras; and
- Nov. 19—Julie Stunden and Ann Hoffman.

More information is available at 412-648-2436 and [www.studioarts.pitt.edu](http://www.studioarts.pitt.edu).

## Pitt's Allegheny Observatory Open House Set for Oct. 3

Explore the heavens and a historic scientific landmark during a 7 to 10 p.m. Oct. 3 open house at Pitt's Allegheny Observatory. The free event will allow groups to enter every half hour; reservations and tickets are required.

During the open house, visitors can freely roam the observatory and peer into the night sky through the 30-inch Thaw Refractor telescope—a 47-foot telescope normally reserved for research. In addition, members of the Amateur Astronomers Association of Pittsburgh will set up telescopes on the observatory lawn for the public. If the night is clear, guests can catch a close-up of Jupiter through the 13-inch Fitz-Clark Refractor telescope. Constructed in 1861, the Fitz-Clark was the

primary telescope for the first Allegheny Observatory and the third-largest telescope in the world when it was built. It enabled a number of early breakthroughs in astronomy, including visual proof that Saturn's rings comprise orbiting particulate.

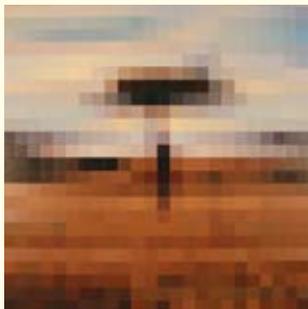
As one of the world's major centers for astronomical research, the observatory houses one of the oldest and largest collections of photographic plates of star fields; the collection began in 1914 and now boasts more than 110,000 images. Unlike regular observatory tours, the open house allows people to browse through these plates and take self-guided tours of the observatory's research rooms.

The observatory is located at 159 Riverview Ave., Riverview Park, North Side. Reservations are limited to six people per group and can be made by calling the observatory at 412-321-2400 between 9 a.m. and 5 p.m. For more information, visit the observatory's Web site at [www.pitt.edu/~aobsrvtry](http://www.pitt.edu/~aobsrvtry).

—Morgan Kelly

## Pitt's Katz School Unveils State-of-the-Art Financial Lab

Pitt's Joseph M. Katz Graduate School of Business has added a key tool to its experience-based learning curriculum: a new state-of-the-art financial laboratory. A ribbon-cutting ceremony for the financial analysis lab, hosted by Pitt Provost and Senior Vice



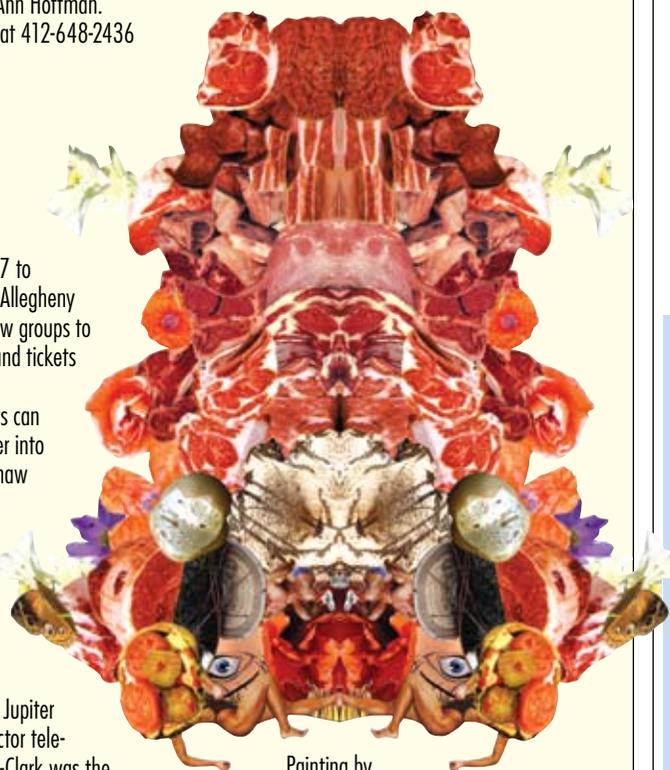
Kenyan landscape by K. Batista

Chancellor James V. Maher and John T. Delaney, dean of the Katz School and the College of Business Administration (CBA), will be held at 11:30 a.m. Oct. 3 on the second floor of Mervis Hall. An interactive demonstration of the room's capabilities will follow the ceremony.

The \$2.3 million, 3,000-square-foot lab features a financial trading simulator, stock tickers, tote display boards,

58 computer stations, live news feeds, and classroom space. It provides students with real-time stock market data and access to faculty who are seasoned in global financial markets. Courses, geared toward both CBA upperclassmen and Katz graduate students, will be tailored to give students a serious glimpse into the world of financial markets.

—Amanda Leff



Painting by Barbara Weissberger

# Heinz Endowments Funds Center for Healthy Environments and Communities at GSPH



Conrad D. Volz uncovers an eagle's nest along a local river.

By Clare Collins

In an effort to expand environmental public health efforts in Pitt's Graduate School of Public Health (GSPH), the Heinz Endowments has awarded \$200,000 to the school's Center for Healthy Environments and Communities (CHEC). The grant will help support the Allegheny River Steward-

equal partnership between traditionally trained experts and local residents. "We believe that it is vital to involve community members in research projects so that they have a stake in the health and well-being of their own communities," said Volz.

In addition to the Allegheny River Stewardship Project, other CHEC initiatives include identifying environmental risk factors for high-preterm delivery rates, low birth-weight rates, and high asthma rates in the Braddock-Rankin area of Pittsburgh; working with the Pittsburgh Public Schools to improve the health and nutrition of students; and conducting training with physicians on environmental health issues.

Other CHEC faculty members include Robbie Ali and Ravi Sharma, both assistant professors in Pitt's Department of Behavioral and Community Health Sciences, and Charles Christian, CHEC manager. For more information on

CHEC, visit [www.chech.pitt.edu](http://www.chech.pitt.edu).

One of the largest and most innovative independent philanthropic foundations in the country, the Heinz Endowments awarded more than \$84 million in grants in 2007.

**"One of the things we strive to do within the center is to help individuals and communities identify the most important environmental problems they face and empower them to develop their own action plans for healthy living."**

—Conrad D. Volz

Founded with initial funding by the Heinz Endowments in 2004, CHEC works to conduct research on the relationship between the ecosystem and human health and to serve as a resource for data, educational materials, and general information on conservation and healthy and sustainable living. The renewed funding will allow CHEC to expand the geographical scope of the Allegheny River Stewardship Project into other areas in Pennsylvania, Ohio, and West Virginia, and to map water pollution concentrations to better understand health risks from environmental contamination.

"One of the things we strive to do within the center is to help individuals and communities identify the most important environmental problems they face and empower them to develop their own action plans for healthy living," said Conrad D. Volz, director of CHEC and an assistant professor in GSPH's Department of Environmental and Occupational Health. "We are extremely grateful to the Heinz Endowments for its continued and sustaining support of this mission."

According to Volz, CHEC employs a participatory research model based on an

## Oct. 1 Memorial Service Set for Late Pitt Professor Keiko McDonald

A memorial service for the late Keiko I. McDonald, author and University of Pittsburgh professor of Japanese literature and cinema, will be held at 3 p.m. Oct. 1 in Heinz Chapel.

McDonald, an avid angler, passed away Sept. 14 as a result of injuries suffered from a fall while fishing.

A memorial fund in McDonald's name has been established. Contributions can be sent to Matt Smith, Office of Institutional Advancement, 316B Craig Hall, 200 S. Craig St., Pittsburgh, PA 15260. Checks should be made payable to the University of Pittsburgh Keiko I. McDonald Memorial Fund.

## PittChronicle

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 Patricia Lomando White

**CONTRIBUTING WRITERS** Clare Collins  
 Maureen McGaffin  
 Amy Dugas Rose  
 Anita Srikameswaran  
 Lauren O'Leary

**HAPPENINGS EDITOR**  
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# Hard Work, High Achievement, and Immeasurable Impact

This is the printed version of the report delivered by Chancellor Mark A. Nordenberg at the June 27, 2008, annual meeting of the University of Pittsburgh Board of Trustees.

**T**homas Edison once said, "Opportunity is missed by most people because it is dressed in overalls and looks like work." That is a particularly telling observation, coming, as it did, from the "Wizard of Menlo Park." Mr. Edison, of course, remains this country's unquestioned champion when it comes to innovation: the holder of nearly 1,100 patents; the creator of the first industrial research laboratory; the inventor of such products as the incandescent light bulb, the phonograph, and the motion picture projector, not to mention the voting booth, which, at least in some places, seems not to have been improved since his day; and the founder of the company that became General Electric.

Decades later, in what we think of as the "age of innovation," it is not unusual to hear the view expressed that there is a basic disconnect between the "blue-collar values" that made this region great and the "new-knowledge economy" that will provide the foundation for its future. Certainly, times have changed. But when you look at our home region's earlier industrial history, the successes of corporations like Westinghouse Electric, U.S. Steel, PPG Industries, Alcoa, and H.J. Heinz were grounded not only in hard work but in smart work, tied to superior products and more efficient processes born through innovation.

And today, even in a 21st-century institution of higher learning and research, which is fueled by its intellectual power, hard work never has gone out of style. Think, for example, about the compelling news from a single day that we celebrated just a few weeks ago.

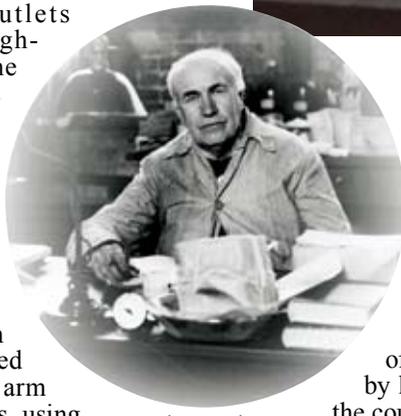
First, media outlets around the world highlighted the work done by a team of scientists led by Pitt Professor of Neurobiology Andrew Schwartz. *The New York Times* began its front-page article with the following description:

"Two monkeys with tiny sensors in their brains have learned to control a mechanical arm with just their thoughts, using it to reach for and grab food and even to adjust for the size and stickiness of the morsels when necessary. ..."

"[This] is the most striking demonstration to date of brain-machine interface technology. Scientists expect that technology will eventually allow people with spinal cord injuries and other paralyzing conditions to gain more control over their lives."

Paired with that story was a report that another Pitt team, this one led by Hillman Professor of Pediatric Immunology Massimo Trucco and his colleague Professor of Pathology Nick Giannoukakis, had developed a new vaccine approach that had prevented and even reversed new-onset cases of type 1 diabetes in animals. That approach currently is being tested in humans in a Phase 1 clinical trial that has been approved by the U.S. Food and Drug Administration.

We think of such developments as "breakthroughs"—and in terms of their advancement of scientific understand-



Thomas Edison

**Thomas Edison once said, "Opportunity is missed by most people because it is dressed in overalls and looks like work."**

ings, they are. But such advances do not just suddenly happen. Instead, though Mr. Edison's overalls may have been converted into lab coats, these important forms of progress almost always are the result of tens of thousands of hours of effort, most often expended by large numbers of people over the course of many years.

The work that enables Pitt to continue moving forward involves contributions of countless types. Those contributions are made by committed members of our community, dressed in whatever attire is appropriate for their own institutional responsibilities.

The still-growing record of success crafted at the direction and with the

support of this board is an enviable one: 13 consecutive years in which each and every year has been markedly better than the one that preceded it. That progress is the product of a well-developed ability to recognize and capitalize on a broad range of opportunities. And both seizing opportunities and meeting the challenges that typically travel with them have required creative thinking, high ambition, a commitment to mission, and a real appetite for hard work.

In terms of overall progress forged

by that work, last year we celebrated the fact that Pitt had climbed into the very highest cluster of the country's top public research universities in the annual assessment *The Top American Research Universities*, published by the Center for Measuring University Performance. That recognition was a source of special pride for a number of reasons.

- The clustering done in this study is tied to objective measures across key areas of performance—encompassing research, private support, faculty, graduate and postgraduate programs, and quality undergraduates—and is not simply another subjective survey of reputation.

- To climb from the fourth cluster, which

already was a high ranking, in the inaugural 2000 study to the first cluster just six years later required that we improve our relative position with respect to 15 of this country's finest universities, all formidable competitors and all committed to moving forward themselves.

- And reaching the top cluster put us in very distinguished company, as we joined just six other top-ranked institutions—Berkeley, Illinois, Michigan, North Carolina, UCLA, and Wisconsin.

Mindful of Irving Berlin's admonition that "the toughest thing about success is that you've got to keep on being a success," we were particularly heartened to learn, when this year's *The Top American Research Uni-*

**...13 consecutive years in which each and every year has been markedly better than the one that preceded it.**

*Continued on page 4*



Mark A. Nordenberg



## The Top American Research Universities

The Center for Measuring University Performance (December 2006)

Top Cluster Public Universities

Berkeley  
Illinois  
Michigan  
North Carolina

PITT  
UCLA  
Wisconsin



## The Top American Research Universities

The Center for Measuring University Performance (December 2007)

Top Cluster Public Universities

Berkeley  
Illinois  
Michigan  
North Carolina

PITT  
UCLA  
Wisconsin

# Hard Work, High Achievement, and Immeasurable Impact

Continued from page 3

versities report was released, that its highest cluster was unchanged. There was Pitt, again in the top-ranked group.

When you are in the highest group, some might say that there is no room to rise. But we know that we have room to improve on multiple fronts. To convey some sense of our ongoing quest for ever-higher levels of quality, I want to focus on three key topics today: the continuing climb of Pitt students, the growing stature and impact of Pitt faculty members, and the increasing importance of Pitt's private benefactors. In doing so, I will share some additional numbers, demonstrating both how far we have come and how our momentum continues to build. But I will spend even more time highlighting inspiring human examples.

## The Continuing Climb of Pitt Students

The external review commissioned by this board in 1996 explicitly concluded that our "average SAT scores and high school rankings of the entire undergraduate entering classes" were "disappointingly low compared to the Association of American Universities cohort." As a result, we made attracting higher-achieving undergraduates one of our highest priorities, and our continuing record of improvement—not only compared to our less-enviable position in the mid-1990s, but also to more recent years, which were themselves a source of shared pride—has been remarkable.

In 1995, our baseline year, we attracted 7,825 applications for admission to the undergraduate programs on the Oakland campus. Last year, we received 19,056 applications, and this year, we are up to 20,639. Because of the very different starting points, it is hard to know whether the 164 percent increase since 1995 or the 8 percent increase in just the last year is more impressive. But trend lines show that we increasingly have become an institution of choice within the critical population of potential students. And from our larger applicant pool, we have been able to attract better and better-credentialed students.

In 1995, for example, our average SAT score was 1110. Last year, it was 1248, and this year (though these numbers may change some over the course of the summer), we stand at 1265.

And in 1995, just 19 percent of our freshmen had graduated in the top 10 percent of their high school classes. Last year, that number had risen to 48 percent, and this year, we currently stand at 50 percent.

Year after year, these accomplished high school applicants have become high-achieving Pitt undergraduates—one telling indication that we are discharging our most basic responsibility as an educational institution. In fact, our record as one of this country's most consistent producers of top-performing undergraduates has become a defining institutional quality, and we continue adding to it.

This year, for example, Eleanor Ott, a University Honors College junior with a triple major in chemistry, history, and French, was one of just 65 students nationally to be named a Truman scholar, a highly competitive award targeted to college juniors with exceptional leadership potential who are committed to



Pitt students in the William Pitt Union

careers in public service.

Both Todd Moyle, a University Honors College sophomore majoring in chemical engineering, and Charles Sleasman, a University Honors College junior majoring in physics and mathematics, were named Goldwater scholars—this country's highest undergraduate honor for students studying science or engineering.



Eleanor Ott (A&S '08)



Charles Sleasman (A&S '09)



Todd Moyle (ENGR '11)

And past national scholarship winners continue to earn new forms of recognition. This spring, for example, Justin Chalker (A&S '06), who currently is studying at Oxford as a Rhodes scholar, and Anna Quider (A&S '07), who currently is studying at Cambridge as a Marshall scholar, both won National Science Foundation Graduate Research Fellowships to support their doctoral studies.

But it is not just those students earning high national honors who are true achievers. Day after day, tens of thousands of Pitt students are crafting records of accomplishment as they build the educational foundation from which they will pursue their dreams. Increasingly, and to an extent that is heartwarming, our students not only are advancing their

own academic agendas but also are regularly and visibly expressing their gratitude both for the opportunities and for the supportive culture they have found here.

The most striking example was last fall's student-sponsored I Love Pitt Day, something that none of us reasonably could have expected, even from a very happy student body. Later in the year, our students sprang another surprise by naming their new social and recreational center in the William Pitt Union Nordy's Place.

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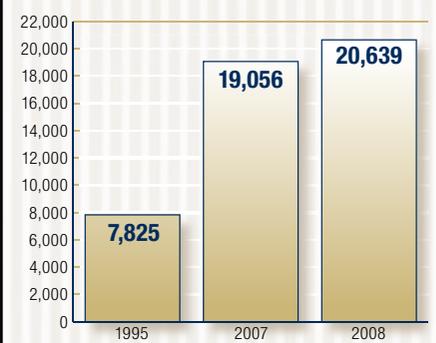
The use of this nickname from my own student days, reborn in our current student body, gives this designation an apparent personal ring. But it more accurately can be viewed as expressing appreciation for the student-oriented commitment of Pitt's entire leadership team. Clearly, we have moved a long way from the student culture of a dozen years ago, when Pitt undergraduates were described by our external reviewers as inadequately credentialed, underappreciated, and largely disengaged.

One force that has helped generate this closer sense of community is pride in Pitt athletics, a force that extends well beyond our student body. And recent months have given all Panther fans plenty to cheer about.

Our football team derailed the

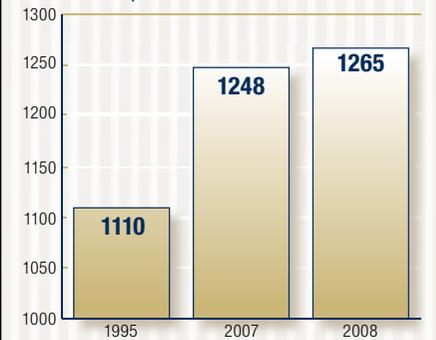
## Freshman Applications

Oakland Campus



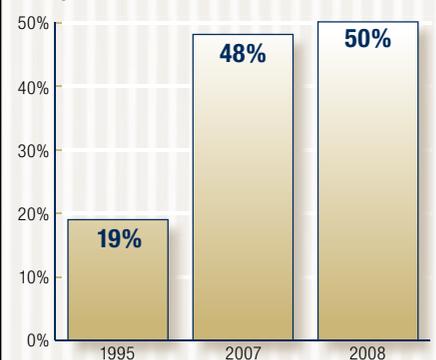
## Average SAT Scores

Oakland Campus



## Freshmen in Top 10%

of High School Class



## National Award-Winning Students

University of Pittsburgh, 1995 to present

- 2 Rhodes Scholars
- 6 Marshall Scholars
- 5 Truman Scholars
- 4 Udall Scholars
- 1 Churchill Scholar
- 3 Mellon Humanities Fellows
- 31 Goldwater Scholars

national championship-bound "Mountaineer Express" in a game that was nationally televised from Morgantown, W.Va.

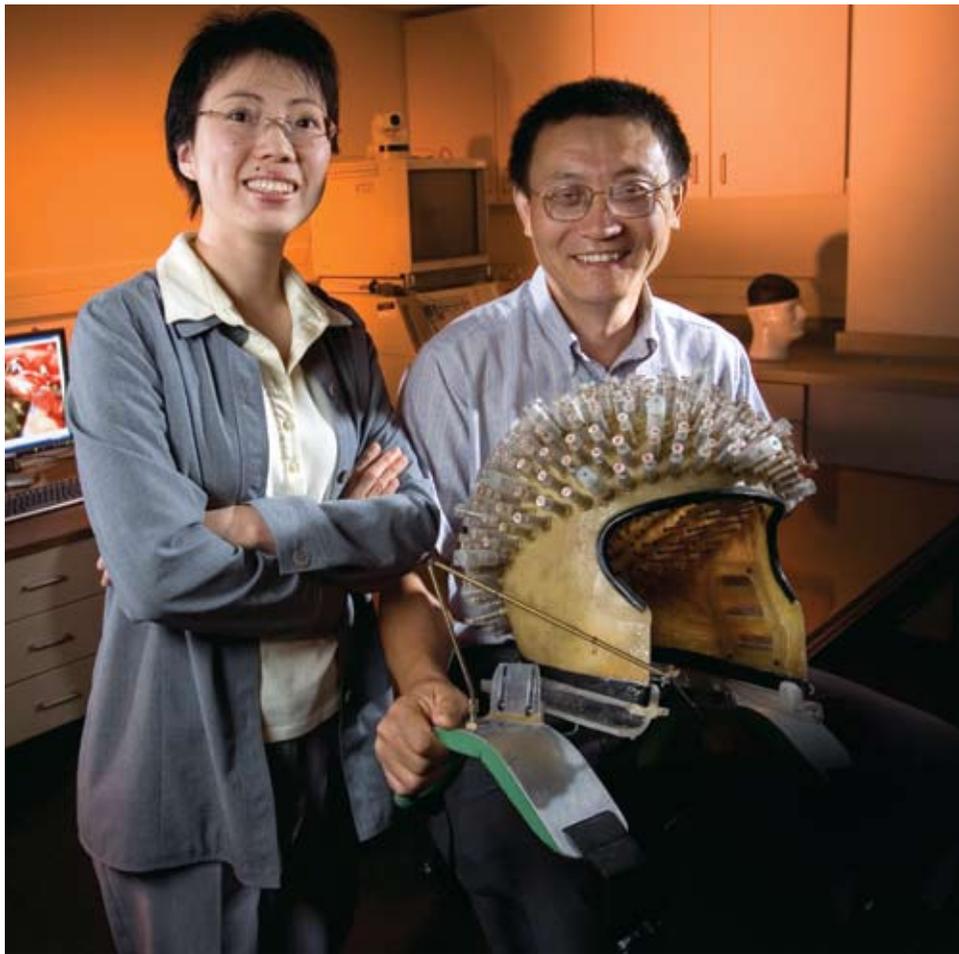
Our men's basketball team, playing in what it affectionately describes as its second home, won the Big East tournament in a decisive upset of a very good Georgetown team at Madison Square Garden.

Our women's basketball team provided us with a season full of thrills and advanced to the NCAA's "Sweet 16" round for the first time in Pitt history.

And wrestler Keith Gavin completed a remarkable 27-win undefeated season—the first undefeated season for a Pitt wrestler

Continued on page 5

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Tracy Cui (left), Pitt professor of bioengineering, and Mingui Sun (right), Pitt professor of neurological surgery, bioengineering, and electrical engineering, collaborated to design two novel electrodes used to process signals that measure electrical activity in the brain.

in 20 years—and claimed an NCAA championship.

Of course, we also are proud of the good citizenship and commitment to academics that sit at the heart of our athletics program. This past term, the Pitt Alumni Association honored 305 student-athletes who had earned grade point averages (GPAs) of 3.0 or higher during the preceding two semesters. That group included 21 student-athletes who had earned a perfect 4.0 GPA.

### The Growing Stature of Our Faculty

Though their work is not performed in arenas packed with fans, when it comes to both national recognition and work of global impact, our faculty also had a championship-level year. This is a group that not only sits at the heart of our educational mission, but also continues to make very significant contributions to new knowledge through scholarship and research.

Collectively and comparatively, this was another great year in terms of the research support attracted by members of our faculty. The most recent comparative statistics released by the National Science Foundation reveal that Pitt ranks 11th nationally in terms of total federal science and engineering research and development support. We sit just outside a top 10 that consists of Johns Hopkins, the University of Washington, Penn, UCLA, Michigan, Stanford, the University of California at San Francisco, Duke, Columbia, and Harvard.

In terms of National Institutes of Health (NIH) support attracted by members of our faculty, we moved into sixth place nationally during the past year. The NIH top 10 consists of Harvard, Johns Hopkins, Penn, UCSF, the University of Washington, Pitt, UCLA, Duke, Michigan, and Washington University in St. Louis.

Obviously, we can be very proud to be so well positioned in that distinguished company. However, as you can see, we now are poised to move even higher—into the

top 10 in total federal science and engineering research and development support and into the top five in NIH funding. And it is our intention to do both.

Embedded in our large annual research expenditures—which should exceed \$630 million this year—is support for very important initiatives. Included in this year's new federal grants, to give just a few examples, were \$8 million to lead the largest study ever of the autoimmune disorder myositis, \$16 million to establish an HIV research center, \$4.75 million to launch a new center on spinal cord injuries, and \$9.6 million to elevate our autism research center into an Autism Center of Excellence.

Moving further away from the numbers, the special forms of recognition won by faculty members across the disciplines during the last year were very impressive. For example:

- David Lewis, UPMC Endowed Professor in Translational Neuroscience and director of our Translational Neuroscience Program, was elected to membership in the Institute of Medicine;

- Isabel Beck, emeritus professor of education and senior scientist in our Learning Research and Development Center, was elected to the National Academy of Education;

- Susan Amara, Thomas Detre Professor of Neuroscience and chair of the Department of Neurobiology; George Klinzing, vice

research and W.K. Whiteford Professor of chemical and petroleum engineering; and Ching-Chung Li, professor of electrical and computer engineering and of computer science, were elected fellows of the American Association for the Advancement of Science; and

- And Nuel Belnap, the Alan Ross Anderson Distinguished Professor of Philosophy, was elected a fellow of the American Academy of Arts and Sciences. This is the third consecutive year that a Pitt philosopher has received this honor.

Other high honors received by faculty during the past year include the following:

- Lee Antoinette Darville, professor of pediatrics and immunology, received one of just 12 Individual Biomedical Research Awards from the Hartwell Foundation;

- Toi Derricotte, professor of English, received both the Elizabeth Kray Award from Poets House and the Barnes & Noble Writers for Writers Award;

- Professors William Klunk from the Department of Psychiatry and Chester Mathis from the Department of Radiology received the American Academy of Neurology's Potamkin Prize (also known as the "Nobel Prize of Neurology") for their pioneering work in the early diagnosis of Alzheimer's disease; and

- And Marcus Rediker, chair of the Department of History, received both the Merle Curti Award from the Organization of American Historians and the George Washington Book Prize for his book *The Slave Ship: A Human History*.

New leaders were recruited to important leadership positions within the University. Among the year's highlights, for example,

were the formal installations of Jem Spectar as president of the University of Pittsburgh at Johnstown and Sharon Smith as president of the University of Pittsburgh at Greensburg.

Well-established faculty members also rose to positions of leadership nationally and internationally. For example:

- David Geller, the Richard L. Simmons Professor of Surgery, was chosen as president-elect of the Society of University Surgeons;

- Patricia Kroboth, dean of our School of Pharmacy, was elected chair of the Council of Deans of the American Association of Colleges of Pharmacy; and

- Jeffrey Schwartz, professor of anthropology and of history and philosophy of science, was installed as president of the World Academy of Art and Science;

- And Harvey White, from the faculty of the Graduate School of Public and International Affairs, served as president of the American Society for Public Administration.

As impressive as this record of accomplishment by more senior members of the faculty is—and I could add many other examples—one of the most exciting things about the last year was the large number of high honors won by more junior faculty on the basis of their demonstrated potential, showing that the talent in our pipeline is exceptional.

- Pete Rubin, assistant professor of plastic and reconstructive surgery,

### Federal Science and Engineering Research and Development Obligations

National Science Foundation Ranking  
Fiscal Year 2005

1. Johns Hopkins	9. Columbia
2. U. of Washington	10. Harvard
3. Penn	11. PITT
4. UCLA	12. Washington U.
5. Michigan	13. UC-San Diego
6. Stanford	14. Wisconsin
7. UCSF	15. Yale
8. Duke	



### National Institutes of Health Funding

(Educational Institutions and Affiliates)  
Fiscal Year 2006

1. Harvard	6. PITT
2. Johns Hopkins	7. UCLA
3. Penn	8. Duke
4. UCSF	9. Michigan
5. U. of Washington	10. Washington U.

was chosen by the White House Office of Science and Technology Policy to receive a Presidential Early Career Award for Scientists and Engineers. This is widely considered to be the highest honor bestowed by the federal government on scientists who still are in the early years of their careers.

**In terms of National Institutes of Health support attracted by members of our faculty, we moved into sixth place nationally during the past year.**

- Two of just 19 Howard Hughes Medical Institute Physician-Scientist Early Career Awards were received by "Pitt people"—Yvonne Chan, an assistant professor in the Division of Pulmonary, Allergy, and Critical Care Medicine, and Allan Tsung, who currently is a resident in the Department of Surgery and

who will join the faculty of our School of Medicine in just a few days.

- Five very talented assistant professors—four from the Swanson School of Engineering and one from the School of Arts and Sciences—won very prestigious Faculty Early Career Development Program awards from the National Science Foundation. They are Tracy Cui from bioengineering, Di Gao from chemical and petroleum engineering, Rebecca Hwa from computer science, Lisa Weiland from mechanical engineering and materials science, and Jun Yang from electrical and computer engineering.

- And Steven Little, assistant professor of chemical engineering, received another very high national honor, a 2008 Beckman Young Investigators Award from the Arnold and Mabel Beckman Foundation, to support his innovative research.

I doubt that we ever have had a year in which so many junior faculty members captured such prestigious national awards.

And, of course, we are doing everything that we can to build not only the culture but also the infrastructure to support our award-winning researchers, whether junior or senior. Among the very visible steps taken



David Lewis



Susan Amara



Ching-Chung Li



Toi Derricotte

Continued on page 6

# Hard Work, High Achievement, and Immeasurable Impact

Continued from page 5

to advance our collective research strength during the past year were the creation of our Center for Vaccine Research, the Richard King Mellon Foundation Institute for Pediatric Research, and our new Center for Energy.

At the same time, existing centers of academic excellence continued to distinguish themselves. For example, our European Union Center was redesignated a European Union Center of Excellence by the European Union Delegation of the European Commission. And just last year, as you may recall, all four of our area studies centers—Asian, European, Latin American, and Russian and East European—as well as our International Business Center were competitively redesignated National Resource Centers by the U.S. Department of Education.

## The Increasing Importance of Private Support

**W**e are pressing forward on this ambitious path even though, as you all know, these are very challenging economic times. Our longest-standing competitive disadvantage has been the comparatively low level of support provided by Pennsylvania to its public research universities that has lagged well behind our peers. With a recommended increase to our appropriation of just slightly more than 1 percent in a year when the recommended overall increase to the state budget is 4.2 percent, our assigned priority is low, and the outlook for state support in the next fiscal year is bleak.

More recently, pressures on the federal budget have affected the levels of support available for university research—a trend that is especially troublesome for an institution that is as research-intensive as Pitt. Essentially, we are competing hard, and successfully, to capture an ever-larger share of a federal research “pie” that steadily is being eroded through a significant loss of its purchasing power.

Of course, the University also is affected by the more general problems plaguing the national economy, including rapidly rising utility charges, construction costs, and food prices, among many other things. To date, we have been highly successful at avoiding the specific problems that have plagued many other fine institutions in the troubled capital markets. But our endowment certainly will not experience the levels of growth that we have seen in recent years.

This makes continuing success in private fundraising even more critical. And while the final tallies are not yet in, this year will have been our best year ever in terms of total voluntary support, individual support, foundation support, and the total number of donors. And just 20 months after we burst through the \$1 billion barrier, we now have passed the \$1.25 billion mark in our \$2 billion capital campaign.

Examples of major gifts from the past giving year underscore both the breadth and impact of recent contributions to Pitt.

• As I mentioned just moments ago, the Pittsburgh-based Richard King Mellon Foundation, one of this University’s most generous supporters over the course of many years, made a \$23 million gift to Pitt and Children’s Hospital of Pittsburgh of UPMC, permitting us to create the new Richard King Mellon Foundation Institute for Pediatric Research.



ALEXANDER DENIMASH

A pioneer in the application of finite-element methods to engineering, John A. Swanson earned his PhD at Pitt in 1966. In 2004, he was awarded the John Fritz Medal, widely regarded as the highest honor in the engineering profession. This past year, in recognition of his extraordinary generosity, Pitt’s School of Engineering was renamed the John A. Swanson School of Engineering.

- The Bill & Melinda Gates Foundation, which is not locally based and which has not provided major support to Pitt in the past, made two very large grants to us this year, both tied to our new Center for Vaccine Research: an \$11.4 million grant to develop new strategies to control tuberculosis and a \$10 million grant to support a vaccine modeling initiative.

- A \$12 million bequest from an anonymous individual donor has created a permanent endowment to provide scholarship support for commuter students at the University of Pittsburgh at Johnstown.

- And, of course, the high point of the year was the historic \$41.3 million gift made by fellow Trustee John Swanson to provide a broad and very flexible form of support to the school that now bears his name—the John A. Swanson School of Engineering.

Though the size of his gift continues to defy comprehension, for those of us who know John and have seen both his extraordinary generosity and his deep sense of commitment to Pitt, the fact that he would make such a surprising gift, if anyone was going to do it, is not so surprising. And speaking more broadly, it also is not surprising that such philanthropic leadership would come from within the Board of Trustees, because this board has played such a key role in leading Pitt forward in virtually every way.

Certainly, the examples of high achievement and broad impact that have come from within this board are inspiring in their own

right and underscore, in highly personal and very meaningful ways, the importance of our mission. Let me give just three examples from the past few months.

- Steve Beering became one of this country’s most respected academic leaders during his long and distinguished service as the president of Purdue University. Steve, who also earned his undergraduate degree at Pitt, recently celebrated the 50th anniversary of his graduation from our medical school, as well as the 60th anniversary of his arrival in this country as a teenage immigrant. In the midst of all that celebrating, he also recently was reelected chair of the National Science Board, a critical position in the shaping of this country’s science policy.

- Our board chair, Ralph Cappy, who also earned two degrees at Pitt, brought nearly three decades of distinguished service as a member of the judiciary to an end when he stepped down as chief justice of the Pennsylvania Supreme Court. As he left that position, honors came to him from virtually every direction. From the National Center for State Courts, he received the Harry L. Carrico Award for Judicial Innovation; the Pennsylvania Bar Association made him just the ninth person in that

**Our goals, though, always have extended beyond building for today. Instead, particularly with Pitt’s proud 221-year history to inform us, we understand that we also are building for a far more extended future.**

organization’s 112-year history to receive its Bar Medal; the Philadelphia Bar Association presented him with its top award for distinguished service; and the Women’s Bar Association of Western Pennsylvania honored him with its Susan B. Anthony Award for his efforts to promote equality in the legal profession.

- Fellow Trustee Bill Strickland likes to remind us that he enrolled in this University on academic probation but now holds both an earned degree and an honorary doctorate from Pitt. Earlier in the year, right here on campus, he launched the release of his acclaimed autobiography, *Make the Impossible Possible: One Man’s Crusade to Inspire Others to Dream Bigger and Achieve the Extraordinary*, which became the five millionth book in our University Library System’s collection. At the same time, Bill continued exporting his innovative and effective system of education, not only to other American cities, but also to locations abroad.

One of my favorite quotes comes from Henry Adams, who once said, “A teacher affects eternity; he can never tell where his influence stops.” These three examples prove that basic point, because the teachers of Steve Beering, Ralph Cappy, and Bill Strickland could not possibly have predicted the scope of their future influence and impact.

Those examples also suggest that we might broaden Mr. Adams’ statement to capture the immense, but incalculable, impact of a major institution like the University of Pittsburgh. Even if we cannot specifically predict each of its products, our collective enterprise—devoted, as it is, to teaching, research, and public service—has been, and will continue to be, an enormous force for good.

Your contributions as trustees, then, should trigger two levels of well-deserved satisfaction. Think, for example, about the levels of quality that have been achieved, the facilities that have been constructed, the campuses that have been beautified, the communities that have been enriched, the extraordinary work that has been supported, and the countless lives that have been touched. Measured purely in terms of current impact, this already is an exceptional record.

Our goals, though, always have extended beyond building for today. Instead, particularly with Pitt’s proud 221-year history to inform us, we understand that we also are building for a far more extended future. In doing so, we are driven by our shared belief that, if we can continue to build our momentum—by working hard, by working smart, and, most importantly, by working together—for our University and for the countless people who will be touched by our University, the best is yet to come!



Steven C. Beering



Ralph J. Cappy



William E. Strickland Jr.

# Happenings

## Lectures/Seminars/ Readings

**Reading by Maxine Hong Kingston**, fiction and nonfiction writer, 8:30 p.m. **Sept. 29**, David Lawrence Hall, Pittsburgh Contemporary Writers Series, 412-624-6506, [www.english.pitt.edu](http://www.english.pitt.edu).

**"Taking Aim at Osteoarthritis: Report From the Front Line,"** Constance R. Chu, the Albert B. Ferguson Jr. Assistant Professor in Pitt's Departments of Bioengineering and Orthopedic Surgery and director of the Cartilage Restoration Program, 4:30 p.m. **Sept. 30**, 2500 Posvar Hall, Provost's Inaugural Lecture, 412-624-5750, [www.provost.pitt.edu/index.html](http://www.provost.pitt.edu/index.html).

**Reading by Paula Bohinc**, poet and author, 7 p.m. **Sept. 30**, Village Hall coffeehouse, Pitt-Greensburg, 2008-09 Written/Spoken Reading Series, 724-836-7481, [loj@pitt.edu](mailto:loj@pitt.edu), [www.upg.pitt.edu](http://www.upg.pitt.edu).

**"Responsible Conduct of Research for Emerging Investigators: Understanding Relations Between Academia and Industry,"** Barbara E. Barnes, assistant vice chancellor for continuing education in Pitt's School of Health Sciences, and Leland L. Glenna, professor of rural sociology at Penn State University, 9 a.m.-noon **Oct. 1**, Connolly Ballroom, Alumni Hall, 2008 Preview Event for Postdoctoral Fellows and Graduate Students, Pitt Office of Academic Career Development, 412-648-8486, register at [www.science2008.pitt.edu/specialevents.html](http://www.science2008.pitt.edu/specialevents.html).

**Steve Forbes**, editor-in-chief of *Forbes Magazine*, 8 p.m. **Oct. 1**, Heinz Hall, 600 Penn Ave., Downtown, Robert Morris University's Pittsburgh Speakers Series, 412-392-4900, [www.pittsburghspeakers-series.org](http://www.pittsburghspeakers-series.org).

**"Building Resilience Through Socio-technical Systems: Early Tsunami Detection for Sumatra, Indonesia,"** Louise Comfort, Pitt professor of public and international affairs, noon **Oct. 2**, 4130 Posvar Hall, Pitt Asian Studies Center, Asia Over Lunch Lecture Series, 412-648-7370, [www.ucis.pitt.edu/asc](http://www.ucis.pitt.edu/asc).

**"Why Sociology Matters in Bioethics,"** Linda J. Morrison, Duquesne University professor of sociology and graduate center for social and public policy, noon **Oct. 2**, Room 113 Barco Law Building, Pitt's Center for Bioethics and Health Law, Grand Rounds Fall 2008, 412-647-5700, [www.pitt.edu/~bioethic](http://www.pitt.edu/~bioethic).

**"Basaltic Volcanoes—Surface to Source—and Ties to Risk Assessment,"** Greg Valentine, SUNY Buffalo professor of geology, 4 p.m. **Oct. 2**, 203 Thaw Hall, Pitt Department of Geology and Planetary Science, Fall 2008 Colloquium Series, [www.geology.pitt.edu](http://www.geology.pitt.edu).

**"Slavery: An Old Crime in the New Global Economy,"** Benjamin E. Skinner, author, and Kevin Bales, Roehampton University professor of sociology, 6 p.m. **Oct. 2**, 107 Barco Law Building, Global Issues Lectures Series, 412-624-2918, [www.globalsolutionspgh.org](http://www.globalsolutionspgh.org).

**Pittsburgh in Words**, literary readings about Pittsburgh, 7:30 p.m. **Oct. 2**, WYEP Community Broadcast Center, 67 Bedford Square, South Side, Pittsburgh Arts and Lectures, American Shorts Reading Series, 412-622-8866, [www.pittsburghlectures.org](http://www.pittsburghlectures.org).

**Linda Sue Park**, author, 10:30 a.m. **Oct. 4**, Carnegie Library Lecture Hall, 4400 Forbes Ave., Oakland, Pittsburgh Arts and Lectures, Black, White, & Read All Over Series, 412-622-8866, [www.pittsburghlectures.org](http://www.pittsburghlectures.org).

**Edwidge Danticat**, author, 7:30 p.m. **Oct. 6**, Carnegie Music Hall, 4400 Forbes Ave., Oakland, Drue Heinz Lecture Series, 412-624-4187, [www.pittsburghlectures.org](http://www.pittsburghlectures.org).

**"Global Public-Private Partnerships for Risk Management Improves Security for All and Need to Become the Norm, Not the Exception,"** Scott E. McHugh, Wal-Mart's vice president for global asset protection and security, 3 p.m. **Oct. 6**, Room 528 Alumni Hall, registration recommended by Oct. 3, register at 412-624-8291, [www.cnp.pitt.edu/seminar](http://www.cnp.pitt.edu/seminar).

**"Iran in the New Middle East,"** Ray Takeyh, Council on Foreign Relations senior fellow on the Middle East,

7:30 p.m. **Oct. 7**, 1500 Posvar Hall, Pitt's Matthew B. Ridgway Center, the National Security Network, Pittsburgh Middle East Institute, [www.ridgway.pitt.edu](http://www.ridgway.pitt.edu).

## Miscellaneous

**Book Sale**, 9 a.m.-5 p.m. **Sept. 29**, Assembly Room, William Pitt Union, University of Pittsburgh Book Center, 412-648-1455.

**Health, Safety, and Security Day**, 10:30 a.m.-2:30 p.m. **Sept. 30**, William Pitt Union Patio and Lawn, Pitt Department of Environmental Health and Safety and Staff Association Council, 412-624-4236, [sac@pitt.edu](mailto:sac@pitt.edu).

**Fall 2008 Job/Internship Fair**, noon-6 p.m. **Oct. 1**, Petersen Events Center, University of Pittsburgh, 412-648-7130, [www.careers.pitt.edu](http://www.careers.pitt.edu).

**RAD Day at Phipps Conservatory and Botanical Gardens**, free admission, 9:30 a.m.-5 p.m. **Oct. 2**, One Schenley Park, Oakland, Allegheny County Regional Asset District RADical Days, 412-622-6914, [www.phipps.conservatory.org](http://www.phipps.conservatory.org).

**RAD Day at Society for Contemporary Craft**, free admission, 10 a.m.-5 p.m. **Oct. 2**, 2100 Smallman St., Strip District, Allegheny County Regional Asset District RADical Days, [www.contemporarycraft.org](http://www.contemporarycraft.org).

**Celebrating Gandhi: The Man & His Teachings**, candlelight vigil, interfaith prayer, and talk by University of Notre Dame professor David Cortright, 7 p.m. **Oct. 2**, Heinz Chapel, Asian Studies Center, 412-648-7370, [www.ucis.pitt.edu/asc/](http://www.ucis.pitt.edu/asc/).

**RAD Day at Pittsburgh Glass Center**, glassblowing demonstrations and art exhibitions, free admission, 10 a.m.-9 p.m. **Oct. 3**, 5472 Penn Ave., Friendship, Allegheny County Regional Asset District's RADical Days, [www.pittsburghglasscenter.org](http://www.pittsburghglasscenter.org).

**RAD Day at Pittsburgh Filmmakers**, screening from Ann Arbor Film Festival, free admission, 7:30 p.m. and 9:30 p.m. **Oct. 3**, 477 Melwood Ave., Oakland, Allegheny County Regional District's RADical Days, [www.pghfilmmakers.org](http://www.pghfilmmakers.org).

**RAD Day at Attack Theater**, free admission 8-11 p.m., free performances at 9 p.m. and 10 p.m. **Oct. 3**, 4805 Penn Ave., Garfield, Allegheny County Regional Asset District's RADical Days, [www.attacktheatre.com/buildex.html](http://www.attacktheatre.com/buildex.html).

**RAD Day at Bulgarian Cultural Center**, free admission, 9 a.m.-3 p.m. **Oct. 4**, 449-451 W. Eighth Ave., West Homestead, Allegheny County Regional Asset District's RADical Days, [www.bmnecc.org](http://www.bmnecc.org).

**RAD Day at the National Aviary**, free admission, 9 a.m.-5 p.m. **Oct. 4**, Allegheny Commons West, off Arch Street, North Side, Allegheny County Regional Asset District's RADical Days, [www.aviary.org](http://www.aviary.org).

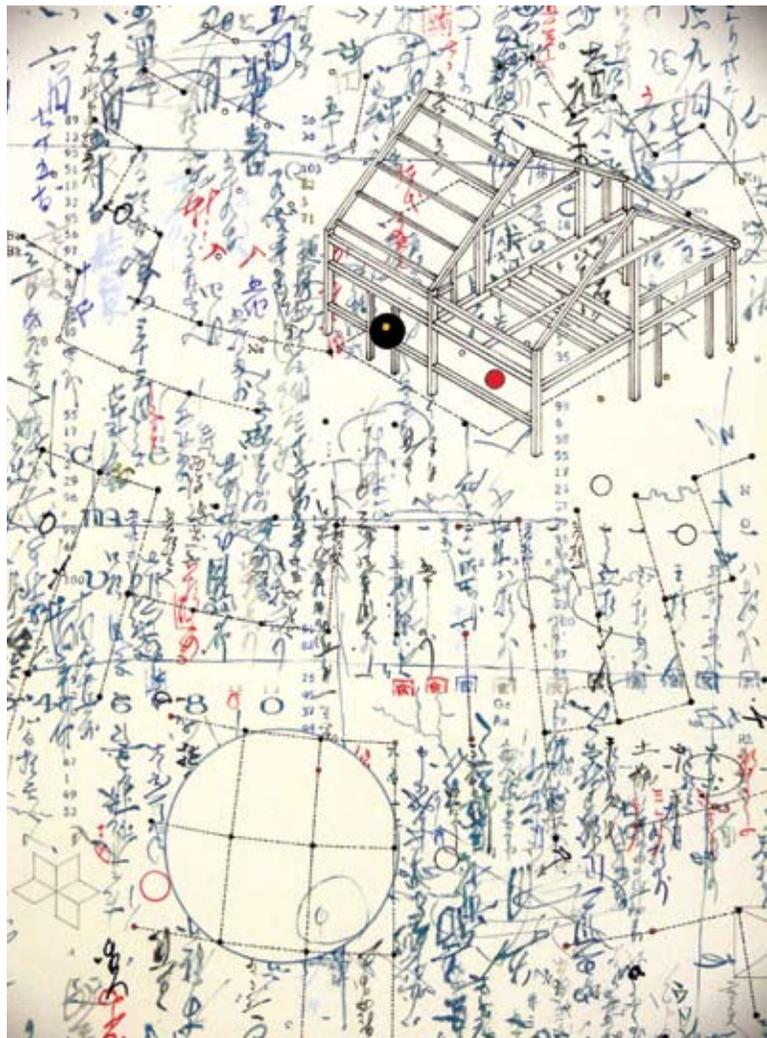
**RAD Day at Frick Art & Historical Center**, free admission, tours, and family activities, 10 a.m.-5 p.m. **Oct. 5**, 7227 Reynolds St., Point Breeze, Allegheny County Regional Asset District's RADical Days, [www.thefrickpittsburgh.org](http://www.thefrickpittsburgh.org).

**RAD Day at Pittsburgh Center for the Arts**, free admission, 10 a.m.-5 p.m., "Clay Olympics," 1-4 p.m. **Oct. 5**, 6300 Fifth Ave., Shadyside, Allegheny County Regional Asset District's RADical Days, [www.thefrickpittsburgh.org](http://www.thefrickpittsburgh.org).

**RAD Day at the Andy Warhol Museum**, free admission, 10 a.m.-5 p.m. **Oct. 5**, 117 Sandusky St., North Side, Allegheny County Regional Asset District's RADical Days, [www.carnegiemu-seums.org](http://www.carnegiemu-seums.org).

**RAD Day at Children's Museum of Pittsburgh**, free admission, noon-5 p.m. **Oct. 5**, 10 Children's Way, North Side, Allegheny County Regional Asset District RADical Days, [www.pittsburghkids.org](http://www.pittsburghkids.org).

**RAD Day at the Mattress Factory**, free admission, noon-5 p.m. **Oct. 5**, 500 Sampsonia Way, North Side, Allegheny County Regional Asset District's RADical Days, [www.mattress.org](http://www.mattress.org).



**Accounting, Paul Glabicki,  
Pitt Department of Studio Arts Faculty Exhibition, October 1-November 21**

## Concerts

**"President's Own" U.S. Marine Band**, 7:30 p.m. **Oct. 2**, Soldiers and Sailors Memorial Hall and Museum, 4141 Fifth Ave., Oakland, Soldiers and Sailors Military Band Concert Series; free admission to museum 10 a.m.-6 p.m. as part of Allegheny County Regional Asset District RADical Days 2008, 412-621-4253, [www.soldiersandsailorshall.org](http://www.soldiersandsailorshall.org).

**The Americas**, Lilly Abreu, soprano; Tangueros De Ley, 7:30 p.m. **Oct. 4**, Frick Fine Arts Auditorium, Pitt's Center for Latin American Studies, 412-648-7394, [www.ucis.pitt.edu/clas](http://www.ucis.pitt.edu/clas).

**Over the Rainbow-Linda Eder Sings Judy Garland's Songbook**, Linda Eder, vocals, **Oct. 2-5**, Heinz Hall, 600 Penn Ave., Downtown, Pittsburgh Symphony Orchestra, 412-392-4200, [www.pittsburghsymphony.org](http://www.pittsburghsymphony.org).

## Exhibitions

**Frick Fine Arts, Department of Studio Arts Faculty Exhibition**, **Oct. 1-Nov. 21**, University Art Gallery, Frick Fine Arts Building, Pitt's School of Arts and Sciences, 412-648-2430, [www.studio-arts.pitt.edu](http://www.studio-arts.pitt.edu).

**Cultural District Gallery Crawl**, 5:30 p.m. **Oct. 3**, throughout the Cultural District, Downtown, 412-456-6666, [www.pgharts.org](http://www.pgharts.org).

**Frick Art & Historical Center, A Panorama of Pittsburgh: Nineteenth-Century Printed Views**, through **Oct. 5**, 7227 Reynolds St., Squirrel Hill, 412-371-0600, [www.frickart.org](http://www.frickart.org).

**Carnegie Museum of Art, Abstract Art Before 1950: Watercolors, Drawings, Prints and Photographs**, through **Oct. 18**; **55th Carnegie International**, through **Jan. 11**; **Worlds Away: New Suburban Landscapes**, through **Jan. 18**; 4400 Forbes Ave., Oakland, 412-622-3131, [www.cmoa.org](http://www.cmoa.org).

**Westmoreland Museum of American Art, Painting in the United States**, through **Oct. 19**, 221 N. Main St., Greensburg, 724-837-1500 ext. 33, [www.wmusemaa.org](http://www.wmusemaa.org).

**Carnegie Museum of Natural History, Insects, Ink, & Inklings: Illustrations by Jane Hyland**, through **Nov. 1**; **Born of Fire: The Life and Pottery of Margaret Tafoya**, through **Jan. 4**, R.P. Simmons Family Gallery; **Exploring the Arctic Seafloor: Photographs by Chris Linder**, through **Jan. 25**; 4400 Forbes Ave., Oakland, 412-622-3131, [www.carnegiemnh.org](http://www.carnegiemnh.org).

**Silver Eye Center for Photography, Eloquent Eggs & Disintegrating Dice: Photographs by Rosamond Purcell**, through **Nov. 29**, 1015 E. Carson St., South Side, 412-431-1810, [www.silver-eye.org](http://www.silver-eye.org).

**American Jewish Museum, Love/Fences/Nests Projects by Ally Reeves**, through **Dec. 15**, 5738 Forbes Ave., Squirrel Hill, 412-521-8011, [www.jccpgh.org/museum.asp](http://www.jccpgh.org/museum.asp).

**Andy Warhol Museum, 1958**, through **Jan. 11**, 117 Sandusky St., Northside, 412-237-8300, [www.warhol.org](http://www.warhol.org).

**Mattress Factory, Inner & Outer Space**, through **Jan. 11**, 500 Sampsonia Way, North Side, 412-231-3169, [www.mattress.org](http://www.mattress.org).

## Films

**Daddy and Papa** (2002), directed by John Symons, 4:30 p.m. **Oct. 1**, Danforth Room, University Center, Carnegie Mellon University, Pittsburgh Consortium for Adoption Studies, Pitt's School of Arts and Sciences, [www.english.pitt.edu](http://www.english.pitt.edu).

**Valentin** (2002), directed by Alejandro Agresti, 7:30 p.m. **Oct. 1**, Frick Fine Arts Auditorium, Latin American Film Series, Pitt's Center for Latin American Studies, [amigoscinelatinoamericano08@blogspot.com](mailto:amigoscinelatinoamericano08@blogspot.com), [clas@pitt.edu](mailto:clas@pitt.edu).

**Honey and Clover** (2006), directed by Kenichi Kasai, 7 p.m. **Oct. 3**, McCormack Hall, Carnegie Mellon University, Japanese Film Festival, Pitt's Department of East Asian Languages and Literatures, [www.ucis.pitt.edu](http://www.ucis.pitt.edu).



**Three Kinds, 2008  
Haegue Yang, Life on Mars,  
55th Carnegie International, through  
January 11, 2009**

**RAD Day at Carnegie Museums of Art and Natural History**, free admission and parking, noon-5 p.m. **Oct. 5**, 4400 Forbes Ave., Oakland, Allegheny County Regional Asset District's RADical Days, 412-622-3131, [www.cmoa.org](http://www.cmoa.org), [www.carnegiemnh.org](http://www.carnegiemnh.org).

## Opera/Theater/ Dance

**The Iliad**, theatrical performance by the Aquila Theater Company, 4 p.m. **Sept. 29**, Byham Theater, 101 Sixth St., Downtown, Pittsburgh Cultural Trust, 412-456-6666, [www.pgharts.org](http://www.pgharts.org).

**Elie Kihonia & Waongo Dance Company**, musicians and dancers from Congo perform ancestral songs and dances of Central Africa, free lunch, noon **Oct. 1**, Nordy's Place, Lower Level, William Pitt Union, Artful Wednesdays, PITT ARTS, 412-624-4498, [www.pittarts.org](http://www.pittarts.org).

**Magic Tree House: The Musical**, through **Oct. 4**, Byham Theater, 101 Sixth St., Downtown, Pittsburgh Cultural Trust, 412-456-6666, [www.pgharts.org](http://www.pgharts.org).

**Wicked**, musical, through **Oct. 5**, Benedum Center, 719 Liberty Ave., Downtown, PNC Broadway Across America, 412-456-6666, [www.broadwayacrossamerica.com](http://www.broadwayacrossamerica.com).

**Radio Golf** by August Wilson, through **Nov. 2**, Pittsburgh Public Theater, 621 Penn Ave., Downtown, 412-316-1600, [www.ppt.org](http://www.ppt.org).

**The Wonder Bread Years** by Pat Hazell, indefinite-run special engagement, Lester Hamburg Studio Theatre at City Theatre, 1300 Bingham St., South Side, 412-431-2489, [www.citytheatrecompany.org](http://www.citytheatrecompany.org).

## Pitt PhD Dissertation Defenses

**Heather Hensler**, Graduate School of Public Health, "Studies of Human Herpesvirus-8 Interactions With Dendritic Cells," 9:30 a.m. **Sept. 30**, Room 109 Parran Hall.

**Melinda R. Bolar**, School of Education, "Effects of Training Status, Exercise Made, and Intensity on Differentiated Ratings of Perceived Exertion," 1 p.m. **Oct. 2**, Conference Room, Petersen Events Center.

**Eileen St. John**, School of Education, "Cognitive Tutoring Systems: A Look at How the Utilization of an Audio Support System Impacts the World Problem Solving Skills of Struggling Readers," 1 p.m. **Oct. 3**, 5140 Posvar Hall.



## Pitt's Science 2008 Program to Highlight Contemporary Research, New Technology

By Amy Dugas Rose

Science 2008, Pitt's annual showcase of science and technology, will feature keynote lectures by four of the nation's leading scientists and highlight current research by Pitt and Carnegie Mellon University researchers as well as scientists working in local industries.

The two-day program will be held Oct. 2 and 3 in Alumni Hall. Admission is free and open to the public, but registration is required, either on site at the event or in advance at [www.science2008.pitt.edu](http://www.science2008.pitt.edu).

"We have a duty to harness the scientific advances entrusted to us by previous generations and to further develop them for our own benefit as well as for those who will follow us," said Arthur S. Levine, senior vice chancellor for the health sciences and dean of the School of Medicine. "This is our time and our chance to make a difference."

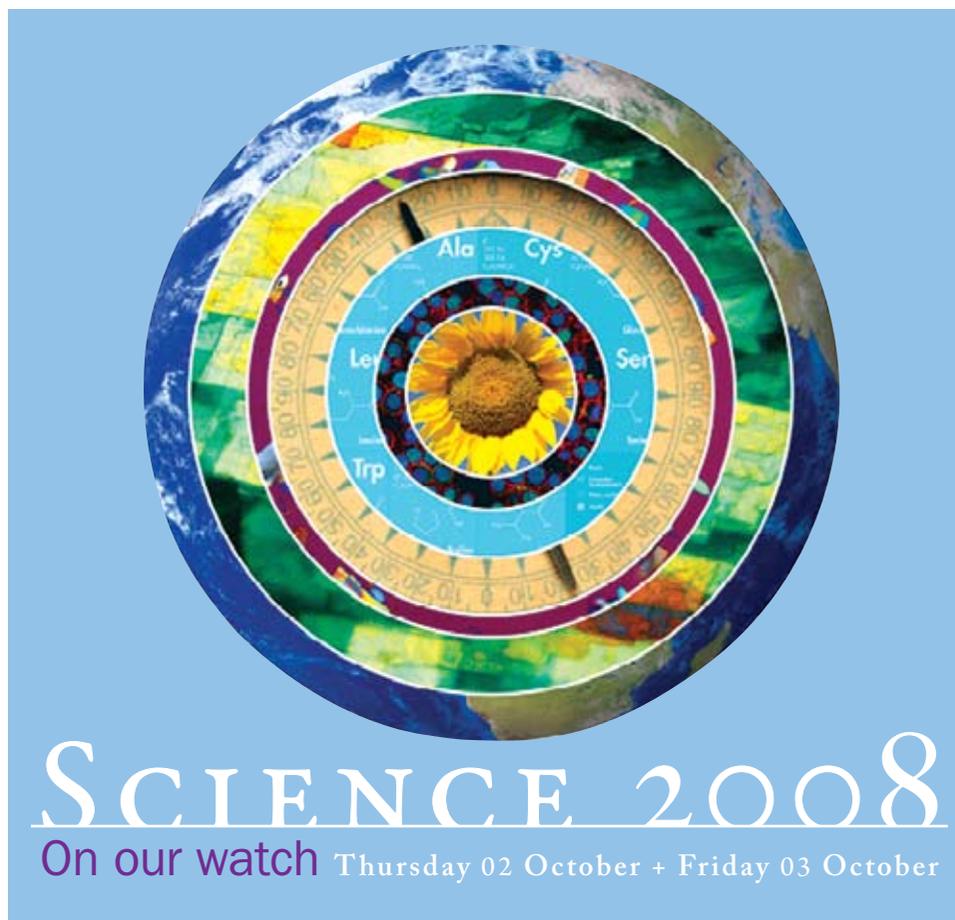
Science 2008 will feature, in addition to the keynote speakers, presentations by more than 50 researchers from Pitt, Carnegie Mellon, and local industry; a showcase of new technology developed by Pitt researchers that is available for licensing; research poster sessions; a professional development workshop for early-career scientists; and other events.

"One of the truly remarkable aspects of this annual event is its cross-campus appeal to students, researchers, and faculty from diverse programs in the sciences, engineering, medicine, the other health sciences, and computation," said James V. Maher, Pitt provost and senior vice chancellor. "In addition, this program is a tremendous opportunity to welcome our colleagues from Carnegie Mellon and other local universities, as well as scientists working in local industry, to come and share ideas and common interests."

The full program of events for Science 2008 can be found online at [www.science2008.pitt.edu](http://www.science2008.pitt.edu). Highlights follow.

### Plenary Lectures

The **2008 Dickson Prize in Medicine Lecture**, "Dissecting the Secretion Pro-



cess: From Basic Mechanism to Human Disease," 11 a.m. Oct. 2, Randy W. Schekman, a Lasker Award-winning cell and developmental biologist at the University of California, Berkeley.

The **Provost Lecture**, "Bridging the Scales: Connecting Computer Simulations of Molecular Phenomena to the Problems of the Real World," 4 p.m. Oct. 2, Gregory A. Voth, Distinguished Professor of Chemistry and director of the Center for Biophysical Modeling and Simulation at the University of Utah.

The **2008 Mellon Lecture**, "The

Unfolded Protein Response: How the Endoplasmic Reticulum Talks to the Nucleus," 11 a.m. Oct. 3, Peter Walter, professor and chair of biochemistry and biophysics at the University of California, San Francisco.

The **Klaus Hofmann Lecture**, "Two Views of Brain Function," 4 p.m. Oct. 3, Marcus E. Raichle, a professor of radiology, neurology, neurobiology, biomedical engineering, and psychology at Washington University in St. Louis.

### Spotlight Sessions

Twelve spotlight sessions will feature

"One of the truly remarkable aspects of this annual event is its cross-campus appeal to students, researchers, and faculty from diverse programs in the sciences, engineering, medicine, the other health sciences, and computation."

—James V. Maher

some of the latest and most innovative science being explored by Pitt and Carnegie Mellon researchers. The topics include nanoscience and nanosafety, immunology, and stem cells in development and in cancer, among many others.

### Science at Work Sessions

In collaboration with scientists working in local industry, Science 2008 also will feature sessions on various topics with scientists and researchers from IBM, Innovation Works, Pittsburgh Life Sciences Greenhouse, Renal Solutions, Vivisimo, and Intel Research.

**PUBLICATION NOTICE** The next edition of *Pitt Chronicle* will be published Oct. 6. **Items for publication in the newspaper's *Happenings* calendar (see page 7) should be received six working days prior to the desired publication date.** *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 may be e-mailed to [chron@pitt.edu](mailto:chron@pitt.edu), faxed to 412-624-4895, or sent by campus mail to 422 Craig Hall. For more information, call 412-624-4238 or e-mail [aleff@pitt.edu](mailto:aleff@pitt.edu).