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University of Pittsburgh Library System Offers Free E-Journal Publishing Service

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scholarly content."

distribution of

-Rush G. Miller

By Sharon S. Blake

Pitt's University Library System (ULS) is now offering a free e-journal publishing service to help academic journals make their content available to a global audience while eliminating the cost of print production.

The E-journal Publishing Program—part of ULS' D-Scribe Digital Publishing Program, which partners with the University of Pittsburgh Press—"is in keeping with the ULS' commitment to free and immediate access to scholarly information and its mission to support researchers in the production and sharing of knowledge in a rapidly changing publishing industry," said Rush G. Miller, Hillman University Librarian and

director of the ULS. The ULS trains a journal's editorial staff in the use of Open Journal Systems (OJS) software, which channels the flow of scholarly content from initial author submissions through peer review and final online publication and indexing. OJS provides the tools necessary for the layout, design, copyediting, proofreading, and archiving of journal articles. The platform provides a vast set of reading tools to extend the use of schol-

arly content through RSS feeds and postings to Facebook and Twitter. E-journal articles can be discovered via blogs, databases, search engines, library collections, and other means.

"For more than a decade, the ULS has been at the forefront of applying emerging digital technologies to the publishing and distribution of scholarly content," said Miller. "In addition to publishing e-journals, we provide platforms to mount on the Internet conference proceedings, pre- and post-prints of journal articles, and audio and video and other born-digital content, as well

as the University's theses and dissertations and materials from our collections. We are pleased that the response to these services

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Pitt-Children's Team Gets \$8.2 Million To Study Antibiotic Resistance

By Marc Lukasiak

Researchers at the University of Pittsburgh School of Medicine and Children's Hospital of Pittsburgh of UPMC have been awarded a six-year, \$8.2 million contract (pending the availability of appropriations) from the National Institutes of

Health (NIH) to conduct a study of 600 children to address antibiotic resistance.

Children's Hospital is one of only four institutions to be awarded these contracts related to antimicrobial research from the NIH's National Institute of Allergy and Infectious Diseases (NIAID).

The Children's clinical trial will aim to determine the efficacy of short-course antibi-

otic therapy and its impact on antimicrobial resistance in young children with acute otitis media (ear infections). The principal investigator is Alejandro Hoberman, a professor of pediatrics in the University of Pittsburgh School of Medicine and chief of the Children's Division of General Academic Pediatrics.

Acute otitis media is the pediatric illness for which antibiotics are most often prescribed. Three out of four children

will experience an ear infection by age 3. However, diagnosis remains difficult, and experts often are divided on treatment options, Hoberman said.

"Ear infections affect the vast major-ity of children, yet they can

be difficult to diagnose, and clinicians do not always agree on what constitutes adequate treatment. Experts remain divided between the so-called 'watchful waiting' approach and treatment with antibiotics," said Hoberman, who also is the Jack L. Paradise Endowed Professor in Pediatric Research at Children's Hospital. "Children's plans to enroll more than 600 children

in the study to determine the efficacy of a short-duration antibiotic treatment strategy, compared with standard duration, in treating ear infections, and what the impact is on antibiotic resistance."

These new trials are part of a twopronged NIAID approach to antimicrobial research: learning how to make better use of the drugs that exist today to protect their usefulness while simultaneously facilitating the development of new drugs.

Schwartz-Led Project Clearing Carthaginians of Mass Baby Killing Makes List of Top 10 Archaeological Discoveries of 2010



Burial urns such as this one contained calcined bones mixed with sediment that seeped in as the water table rose over the millennia

By Morgan Kelly

A University of Pittsburgh researcher's endeavor to clear the name of ancient Carthage—a North African empire long accused of ritual baby killing-was selected by Archaeology magazine as one of the top 10 archaeological discoveries of 2010. The magazine is the world's largest generalinterest publication for archaeology, with a readership of more than 750,000.

Jeffrey H. Schwartz, a professor of anthropology and of history and philosophy

of science in Pitt's School of Arts and Sciences, is featured in the magazine's January/ February 2011 edition for producing skeletal evidence that refutes claims from as early as the 3rd century BCE that the people of Carthage regularly sacrificed their youngest citizens. A team led by Schwartz reported in the Proceedings of the Library of Science (PLoS) ONE in February 2010 that burial urns thought to contain the remains of sacrificed infants actually contain the remains of all young children regardless of how they died. The team's examination of the remains revealed that most infants perished prenatally or very shortly after birth and were unlikely to have lived long enough to be sacrificed.

Archaeology included the project alongside such notable finds of 2010 as the decoding of the Neanderthal genome, the development of a nondestructive carbondating technique, and the discovery of a 3.6-million-year-old skeleton that proves

early human ancestors walked upright. The top-10 feature is available on the Archaeology Web site at www.archaeology. org.

"To be included on Archaeology's list is quite an honor when you consider the thousands of distinguished archaeologists around the world who work in the field year after year and spend a lifetime analyzing their finds," Schwartz said. "The task of

selecting the 10 most significant finds from thousands of publications is no doubt difficult. To stand out from such a varied and illustrious crowd is a privilege.'

Schwartz worked with Frank Houghton of the Veterans Research Foundation of Pittsburgh, Roberto Macchiarelli of the National Museum of Natural History in Paris, and Luca Bondioli of the National Museum of Prehistory and Ethnography in Rome to inspect the remains of children found in Tophets, burial sites peripheral to Carthaginian cemeteries for older children

and adults. Tophets housed urns containing the cremated remains of young children and animals, which led to the theory that they were reserved for victims of sacrifice. The Pitt project was the first in-depth study of skeletal remains from Tophets.

The team examined the skeletal remains from 348 urns for developmental markers that would determine the children's ages at death. Schwartz and Houghton recorded skull, hip, long bone, and tooth measurements that indicated most of the children

died in their first year, with a sizeable number aged only two to five months. At least 20 percent of the sample was prenatal.

Schwartz and Houghton then selected the teeth from 50 individuals they had concluded died before or shortly after birth. They sent the teeth to Macchiarelli and Bondioli, who specifically looked for a neonatal line, an opaque band that forms in human teeth

between the interruption of enamel production at birth and its resumption within two weeks of life. Identification of this line is commonly used to determine an infant's age at death.

Macchiarelli and Bondioli found a neonatal line in the teeth of 24 individuals, meaning that the remaining 26 individuals died prenatally or within two weeks of birth.

More information on the project is available on Pitt's Web site at www.news. pitt.edu/news/Schwartz-Carthage-infantsacrifice.



Jeffrey H. Schwartz

BrieflyNoted



Swanson School of Engineering Offers New Undergraduate Certificate in **Engineering for Humanity**

Pittsburgh Swanson School of Engineering recently established an undergraduate certificate program that combines engineering with elements of business, public policy, and social science to help aspiring engineers implement technological responses to the world's humanitarian ills.

The Engineering for Humanity certificate is a 15-credit program offered through the Swanson School's Mascaro Center for Sustainable Innovation. It com-

prises four three-credit courses and a service-learning project that can be implemented locally or internationally. Of the four courses, only two are explicitly related to engineering. The other two are a business-related course and a cultural course related to the region of



Lisa Weiland

clean-source hydrokinetic power from the nearby Kiskiminetas River. At the same time, citizens and business owners in Vandergrift are evaluating and adjusting their energy consumption in order to be more efficient producers and consumers of energy and goods. -By Morgan Kelly

the world in which the service-learning project will occur. Program advisor Lisa Weiland, an assistant professor in the Swanson School's Department of Mechanical Engineering and Materials Science, said the multidisciplinary approach enjoins students to approach such global problems as environmental preservation and water management from perspectives beyond the

"Our students are aware that the very real problems affecting our world are too large and complex for one discipline to address alone," Weiland said. "Ethics, economics, business, and societal perspectives-these must all be considered in any effective engineering approach. Today, engineers know that community projects require knowledge of society and how it

functions. By challenging students to think beyond

engineering and consider business-model development and social implications, we are dramatically increasing

Weiland is the lead Pitt researcher for a collabora-

tive project between the Mascaro Center

and citizens of Vandergrift, Pa., that

encompasses the elements of humanitar-

ian engineering, she said. The Vandergrift

Improvement Project is intended to

reinvigorate the town's central business

district by reducing its power consumption and helping Vandergrift become

more sustainable. Weiland is developing electroactive materials to help supply

the town's business district with free,

technical scope of engineering.

their ability to be successful."

University Offers E-Journal Publishing

Continued from page 1

has been so widespread." Timothy Deliyannides, head of ULS Information Systems, added, "We're delighted to offer electronic publishing services free of charge to partners who share our support for Open Access to research information and use a robust peer-review process for their content. We can help clients new to electronic publishing at every step. We will give them the tools they need to set up an efficient workflow and help them produce a scholarly e-journal of the highest quality.'

The ULS currently publishes the fol-lowing e-journals: *Bolivian Studies Journal*; Contemporaneity: Historical Presence in Visual Culture; Éthnology: An International Journal of Cultural and Social Anthropology; Études Ricœuriennes/Ricœur Studies; International Journal of Telerehabilitation; Journal of French and Francophone Philosophy; and Revista Iberoamericana.

E-journal publications expected over the next several months include *Timely*

Interventions: A Translational Journal of Public Policy and Debate; University of Pittsburgh Law Review; Journal of Law and Commerce; Pittsburgh Tax Review; Journal of Technology, Law and Policy; Pittsburgh Journal of Environmental and Public Health Law; Motivational Interviewing: Training, Research, Implementation Practice; and the Pitt Political Review.

For more information about the E-journal Publishing Program, visit www.library. pitt.edu/e-journals/.

The ULS is the 23rd-largest academic library system within the United States. It includes 21 libraries and holds more than 6.2 million volumes and world-class specialized collections, among them the Archive of Scientific Philosophy and the Archives of Industrial Society, as well as major foreignlanguage materials from around the world totaling 1.4 million volumes. The ULS offers state-of-the-art facilities and services, with innovative digital library collections and capabilities.

Pitt Publishes New E-journal on Bolivian Studies

Editors are currently soliciting new research on the history and culture of Bolivia for the *Bolivian Studies* Journal/Revista de Estudios Boliviano, an e-journal published by the University of Pittsburgh's University Library System (ULS). The journal is an international, peer-reviewed journal, published by the ULS with the support of the University's Center for Latin American Studies and Department of Hispanic Languages and Literatures and edited by Elizabeth Monasterios and Martha E. Mantilla.

The journal's editorial board comprises well-known scholars, intellectuals, and writers working in Bolivia, the United States, and Europe. It publishes once a year and accepts material in Spanish, English, or indigenous languages. Editors are seeking innovative interdisciplinary research that critically discusses Bolivia's challenges in the new millennium. The journal is especially interested in disseminating research produced in Bolivia to a worldwide audience. It welcomes articles, case studies, discussions and interviews in a wide range of areas, including Andean studies, Amazonian studies, history, law, philosophy, visual arts, and many others. Visit the journal's Web site for information on submitting articles. For any other inquiries, e-mail bsj@mail.pitt.edu.

-By Sharon S. Blake

Sporadic Breast Cancers Start With Ineffective **DNA Repair Systems, Pitt Researchers Find**



By Courtney McCrimmon

Breast cancers that arise sporadically, rather than through inheritance of certain genes, likely start with defects of DNA repair mechanisms that allow environmentally triggered mutations to accumulate, according to researchers at the University of Pittsburgh School of Medicine, Magee-Womens Hospital of UPMC, and the University of Pittsburgh Cancer Institute. The findings, reported in the *Proceedings of the* National Academy of Sciences, indicate that potent chemotherapy drugs that target DNA in later-stage cancers could be an effective way to treat the earliest of breast tumors.

Recent research has focused on familial breast cancers, in part because the predisposing genes have been well-characterized and women at risk can be identified, said Jean J. Latimer, an assistant professor of obstetrics, gynecology and reproductive sciences in Pitt's School of Medicine. But these cases comprise only 15 percent of the 190,000 breast cancers that are diagnosed every year.

Research on sporadic breast cancer has involved the use of available cell lines derived from late-stage tumors, but most newly diagnosed tumors in the U.S. are Stage I, the earliest form of invasive disease.

Our team is able to grow stage I breast cancer cells-before they have spread to adjacent tissues and lymph nodes-allowing us to examine the mechanisms that underlie cancer development in people who didn't inherit a faulty gene," Latimer said. "The advent of innovative tissue engineering techniques has finally made it possible for us to culture these cells to determine what has gone wrong."

In earlier work, she and her colleagues found that breast tissue does not repair everyday damage to DNA as well as other tissues, such as skin. Ultraviolet light, for example, can cause mutations, but a sophisticated system of nucleotide excision repair (NER) proteins trolls the DNA strands to identify problems and initiate repair processes. The same system repairs damage caused by many environmental carcinogens, including tobacco smoke.

'Even in healthy breast tissue, this system is only about one-fifth as effective as it is in skin," Latimer noted. "This deficiency could set the stage for sporadic cancer development, with the risk increasing with age as DNA damage accumulates."

For the study, the researchers grew and

assessed 19 sporadic Stage I breast tumors placed into culture directly from surgeries to test their NER pathways. In every case, there was a deficiency in repair capacity compared to disease-free breast tissue.

"That is a remarkably consistent fea-ture for cancers that might otherwise seem random in their genesis," Latimer noted. "We rarely see a universal rule when it comes to breast cancer, but then until now we have rarely studied stage I disease.'

Some chemotherapy drugs work espe-cially well on cells that exhibit reduced DNA repair, but they are typically given in later-stage disease. The new findings suggest, however, that these approaches could be effective in treating early-stage disease, she noted.

The research was funded by the National Institutes of Health, the U.S. Department of Defense, the Pennsylvania Department of Health, the Komen for the Cure Awards, and the American Cancer Society.

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Center for Global Health: Creating a Healthier World



Pitt's Sharon L. Hillier (third from left in yellow shirt) meets with local women and (on Hillier's left) their tribal chief in Blantyre, Malawi, where the Microbicide Trials Network (MTN) operates a site. Hillier is an internationally recognized microbiologist who is the principal investigator for the MTN, an HIV/AIDS clinical trials network established by the National Institute of Allergy and Infectious Diseases. She is also a professor and vice chair for faculty affairs and director of reproductive infectious disease research in the Department of Obstetrics, Gynecology, and Reproductive Sciences in Pitt's School of Medicine. In her role at MTN, Hillier leads an international team of investigators and community and industry partners from seven countries and three continents, directing an ambitious HIV-prevention research agenda.

By Jeffery Fraser

The human immunodeficiency virus (HIV) is so adept at eluding the immune system that by the time the body recognizes

Pitt's Center for Global

Health combines

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research with those

health and biomedical

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across the University.

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—Joanne Russell

the center to be a portal

multidisciplinary

partnering with schools

one version of the virus, that version may already have mutated three or four times.

Mycobacterium tuberculosis, the rod-shaped bacterium that causes tuberculosis (TB), is carried by two billion people on the planet. It hides out in tiny, oxygen-deprived pockets deep inside the carrier's lungs and can be transmitted by a sneeze. The H1N1 virus is the

The H1N1 virus is the latest in a series of influenzas that have mutated in pigs, birds, and people. Its 1918 predecessor killed more than 50 million people worldwide.

These diseases affect billions of people. They can thwart economic development, roil political systems, and dislodge whole societies. And in today's increasingly global and mobile society, they can spread within hours.

To combat these and other diseases, a growing scientific field has emerged: global health. Once thought of as a cottage industry within medicine—the domain of a few daring medical missionaries and biomedical explorers—today the field is attracting the interests of epidemiologists, virologists, biostatisticians, and computer modelers. "We're much more interconnected, and the health challenges we face in this country can't be separated anymore from the

rest of the world," says Helene Gayle, president and CEO of CARE, the global humanitarian nonprofit organization. "It's not so much that we're doing something to take care of 'these' people and exotic diseases in faraway countries. We all have something to learn, and it's in our own interest to focus on a more global way of looking at disease."

Pitt's Center for Global Health

The University of Pittsburgh, a national powerhouse in the health sciences, added its considerable weight to these efforts with the creation of the Center for Global Health. Developed with a grant from the University, the center was established to coordinate, support, and expand global health research at Pitt by bringing under one umbrella the institution's many renowned scientists and medical researchers working in the global health arena.

This Universitywide multidisciplinary center combines existing strengths in health and biomedical research with those in other disciplines by partnering with schools across the University. "Most global health problems are rooted in a combination of health, education, social, economic, political, and environmental factors and call for integrated, multidisciplinary approaches," says Joanne Russell, director of the center. "We want the center to be a portal for academics across the University as well as a bridge between disciplines."

In the health sciences, the Pitt schools that collaborate with the center include medicine, public health, nursing, pharmacy, dentistry, and health and rehabilitation sciences. In addition, there are existing collaborations with the School of Law, the Graduate School of Public and International Affairs, and the School of Arts and Sciences, as well as with the University Center for International Studies.

"The center is a catalyst for change," says Donald S. Burke, associate vice chancellor for global health and UPMC-Jonas Salk Professor of Global Health. Burke, who also is dean of Pitt's Graduate School of Public Health and a veteran epidemiologist in the field of infectious disease, is the driving force behind the center. "The center is designed to foster action. We are not trying to be the problem solvers ourselves, but we help academic researchers get what they need to pursue some of these important health questions in international settings."

HIV, TB, genetics, and maternal and child health are just some of the areas studied by Pitt's global-health researchers. The center helps Pitt—the No. 5-ranked biomedical research university in the country, as measured by total National Institutes of Health (NIH) grants received—to export its considerable bank of expertise by training researchers worldwide.

The center links graduate students with mentors and host sites around the world through which they pursue global health projects. This includes working in health clinics or providing primary care in the developing world. But Burke stresses that the ultimate focus of the center is research.

"A lot of the time when people think of global health, it's from a missionary and humanitarian perspective," Burke says. "It's noble, it's important, and it's useful, but I think that we, as an academic institution, have as our job the definition and solution of problems, and to do that we need a research focus."

Burke began his career as a medical officer with the U.S. Army, retiring with the rank of colonel. While researching infectious diseases with the Army, Burke helped conduct pioneering trials in Thailand for Japanese encephalitis vaccine. The trials proved the effectiveness of a drug that now protects 30,000 to 40,000 children from paralysis or death each year.

In 2006, Burke came from Johns Hopkins University to Pitt because "what I saw was a university that had an extraordinary potential to make a difference in people's lives around the world," he says. "I thought, 'Here you've got this combination of outstanding people and growing expertise that could be brought to bear on some of the world's biggest problems. This is a great place to help make important things happen.'"

Global Partnerships: Breaking an Antiquated Cycle

Many of the developing world's biggest problems are exacerbated by severe medical crises. High rates of HIV, TB, and malaria in sub-Saharan Africa, for example, contribute to the region's toxic brew of poverty, political instability, and dislocation. These problems, in turn, worsen many countries' ability to fight public health problems. Half of the deaths in the developing world are caused by infectious diseases, almost all of them either treatable or preventable.

"It's a vicious cycle," says David Heymann, a longtime World Health Organization (WHO) official and current chair of the British Health Protection Agency, the United Kingdom's equivalent of the Centers for Disease Control and Prevention (CDC). "Only healthy people can help their countries move out of poverty, and when these countries move out of poverty, they contribute to global production and the world market."

To climb out of poverty, developing nations must build the human capital necessary to monitor, treat, and prevent public health problems. This is an area where academics, like those in Pitt's Center for Global Health, can have an impact. An example of building this kind of capacity can be seen in a Pitt-led project in Brazil. Lee Harrison, a professor of medicine, epidemiology, and infectious diseases and microbiology, has helped train scores of Brazilian HIV researchers over the past two decades. Many of these researchers now receive CDC and NIH grants to conduct their work.

For Harrison, a senior investigator affiliated with the Center for Global Health, the project highlights the public health field's progress. Decades ago, "parachute research" was the norm in the developing world: "Somebody from the United States or Europe parachutes in, does his or her research project, and leaves, and the country's no better off than it was when he or she got there. That has totally changed."

A partnership with a host institution, Harrison says, is a way to leave a lasting effect on the public health infrastructure of a country. One by one, the parachutes are being mothballed. Today, the Brazilian researchers trained through Pitt are testing new HIV

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Center for Global Health: Creating a Healthier World



Pitt researchers Deborah McMahon and Lee Harrison visit a laboratory supervisor and technicians in the Catholic University of Mozambique's (UCM) Infectious Diseases Research Center in Beira, Mozambique. McMahon (front row, center), a Pitt professor of medicine and of infectious diseases and microbiology, is the project director for Beira's Twinning Center, an HIVfocused health center where Pitt and UCM faculty train local health care workers in primary HIV care. Harrison, (back row, far right), a Pitt professor of medicine, epidemiology, and infectious diseases and microbiology, has helped train scores of Brazilian HIV researchers over the past 12 years. He and McMahon are discussing how U.S. and Brazilian researchers could train their Mozambique counterparts through an HIV research training program funded by the National Institutes of Health Fogarty International Center.

Continued from page 3

vaccines and conducting studies to improve the delivery of anti-HIV medications in the developing world.

"Brazil has become a world-class training site," Harrison says. "We provided this training and started to develop a research infrastructure. That, in turn, led to data that we were able to show funding agencies looking for sites to do trials on microbicides and for HIV vaccines.

The idea is to create the infrastructure that will allow you to compete for funding and become a site to do these kinds of studies," Harrison adds. "In Brazil, we've seen the fruits of the infrastructure we helped build. We're planting the seeds now in Mozambique.'

Education and Training: Building the Infrastructure

In Beira, Mozambique, Pitt initially established a partnership with the Universidade Católica de Moçambique (UCM). In June 2009, the two institutions opened the Twinning Center, an HIV-focused health center to train local health care workers in primary HIV care. Funded by the U.S. President's Emergency Program for AIDS Relief, the center includes faculty from the Pitt School of Medicine's HIV/AIDS Program and UCM's Faculty of Medicine.

Mozambique is one of the 10 poorest countries in the world, with an HIV-infection rate that exceeds 16 percent nationally and 26 percent in the Beira region. The country has

a patient-to-doctor ratio of 33,500 to one; in the United States the rate is 390 to one.

"In the rural areas, the chances of ever seeing a doctor are low," says Deborah McMahon, project director for the Twinning Center and a Pitt associate professor of medicine and of infectious diseases and microbiology. "We are trying to develop health care capacity in Mozambique that will improve access to HIV care."

The newly renovated St. Luke's Health Center in Beira already has provided primary care to more than 1,300 local residents since opening in June 2009. "In the beginning, the center saw only a few dozen patients a day," says McMahon. "Now there are between 75 and 100 patients a day. It is getting increasingly busier as the community learns about the center."

At St. Luke's, nurses, physician's assistants, medical students, and other health care workers receive hands-on mentored training, the backbone of Western-style medical education. It eventually will become a one-stop location for HIV patients.

Medical staff see patients with diarrheal illnesses, parasitic infections, fever, pneumonia, HIV, TB, malaria, and chronic conditions like diabetes and high blood pressure," McMahon says. At least one Pitt faculty member is at the center every day to supervise training and care. "This hands-on training helps these health care workers on the front lines of primary care in Mozambique, where care is needed the most."

Countries like Mozambique have a tremendous need not only for trained caregivers, but also for homegrown researchers who can identify and solve problems. Each country or region faces different

problems-strains of HIV vary from country to country, for instance, and drugs developed in the United States may not work the same way in Mozambique. Exporting a therapy developed in one country to another may require adaptation.

Seeing an opportunity to take advantage of some intriguing synergies between Brazil and Mozambique, Harrison and other Pitt faculty members explored opportunities to begin a research training program in Beira. Pitt's Twinning Center in Beira offered a ready-made host site. In addition, both Brazil and Mozambique share a common language: Portuguese. Harrison is now planning "south-tosouth" trainings that will allow Brazilian researchers to train their counterparts in Mozambique.

The program is funded with a \$2.8 million grant from NIH's John E. Fogarty International Center for Advanced Study in the Health Sciences,

which focuses on improving medical research in the developing world. With the grant, Pitt is developing a research training site in Mozambique and expanding programs already under way in Brazil and India.

Providing New Tools: Research Collaboration

While Harrison and others train physicians around the world in infectious disease research, another Pitt researcher and Center for Global Health scholar is training doctors to study another epidemic that is more difficult to detect. For the past

20 years, Vishwajit Nimgaonkar, professor of psychiatry and human genetics, has been training researchers in India and Egypt in the genetics of psychiatric disorders. Nimgaonkar says the research is

badly needed: WHO reports that mental health disorders, For an academic like schizophrenia institution like Pitt and bipolar disorder, are the third-leading to have a long-term cause of disability worldwide. About 1 percent of the world's impact, it must focus on the problem-solving adult population suffer from schizophrenia. aspects of worldwide Advances computational biology health issues—with a and gene mapping now allow researchers like central agenda on global Nimgaonkar to plumb millions of DNA base research. From HIV and TB pairs to look for genetic to mental health and the markers for mental genetics of birth defects, the University's robust research engine is helping to discover novel therapies, interventions, and diagnostic tools using a broad array of techniques. —Donald Burke

health disorders. These methods work best with a broad spectrum of genetic samples, so the team is collaborating with psychiatric researchers around the world to increase the pool of DNA being studied. In the process, team members are looking at whether environmental factorsnutrition, exposure to disease, and traumatic episodes-play a role in the development of

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psychiatric disorders.

Nimgaonkar-trained psychiatrists at India's University of Delhi are now conducting research of their own; one initiated an intriguing study of the effects of yoga on people with schizophrenia. "These researchers bring insights that we may not necessarily have, because they have different experiences and backgrounds," Nimgaonkar says. "Clinicians in these countries are likely to have more experience than we do because they see many more patients than we do. What they're lacking are the tools to do research, and they want to be researchers. They realize



Vishwajit L. Nimgaonkar (second from right), a Pitt professor of psychiatry and human genetics, has been training researchers in India and Egypt in the genetic studies of psychiatric disorders. Nimgaonkar is pictured here in Mansoura, Egypt, with two other Pitt professors: Rohan Ganguli (center), a professor of psychiatry, pathology, and health and community systems in Pitt's School of Medicine, and Konasale M. Prasad (far right), an assistant professor of psychiatry. They were visiting two Egyptian psychiatrists (pictured on left) who are collaborating with Nimagonkar on his research.





Pitt researchers are helping control the spread of infectious diseases virtually, thanks to a \$13.4 million National Institutes of Health grant that established the Models of Infectious Diseases Agent Study (MIDAS) National Center of Excellence at the University of Pittsburgh. Headed by Donald S. Burke, dean of Pitt's Graduate School of Public Health (GSPH) and associate vice chancellor for global health, the center is developing, testing, and employing computer simulations to help public health officials and other decision makers predict infectious disease outbreaks and intervene to control them. Pictured are Burke (right) and Bruce Y. Lee, an assistant professor in GSPH and a core member of the recently founded Public Health Dynamics Laboratory, analyzing a map showing the spread of influenza throughout the U.S.

there is a benefit to doing research."

Informing Policy: Modeling Infectious Disease Patterns

In addition to providing education and training in many locations worldwide, the Center for Global Health is making an impact at the highest levels of public health policy through its research.

The Vaccine Modeling Initiative, a group of researchers based at Pitt, was at the forefront of helping to steer the U.S. government's response to the H1N1 virus as well as to other infectious diseases around the world. The project has commanded the attention of the world health community, and it has received a \$10 million grant from the Bill and Melinda Gates Foundation, which funds projects dedicated to the eradication of infectious disease.

The initiative is headed by Burke, who began using computer modeling in the 1990s to predict the behavior of diseases. "Computer models allow us to test our theories in silica," Burke says. "For a number of reasons, you can't test these hypotheses in a live population."

Computers are useful, Burke says, because diseases behave according to a set of numbers-transmission rates, latency periods, and the length of time a carrier remains contagious. As computing power has increased, modelers have been able to simulate how a broad range of variables might impact the outcome of a disease. Population density, the distance people travel to work, and the speed at which a virus spreads can all be plugged into an algorithm.

WHO, the CDC, and the U.S. Department of Homeland Security used Burke's simulations in 2004 to plan for a possible avian influenza outbreak. That same year, WHO arranged to keep three million vaccine doses on hand in Southeast Asia based on the model's calculation of the number of doses that would be needed to thwart an outbreak. "We basically built an artificial society of millions of persons based on census, transportation, and other demographic and sociological data," Burke says

In 2009, the U.S. Department of Health and Human Services asked Pitt's modeling group to derive a model for the H1N1 virus, or "swine flu." Over the summer, the group began inputting new data on how the virus behaved in the Southern Hemisphere's flu season in Australia, New Zealand, and South America. At the time, Burke said that initial reports showed an excess of mortality rates in Through its research, the Center for Global Health is making an impact at the highest levels of public health policy. Pitt researchers were at the forefront of helping to steer the U.S. government's response to the H1N1 virus as well as to other infectious diseases around the world. And as computer power has increased, modelers have been able to simulate how a broad range of variables might impact the outcome of a disease.

young adults, which "will help us determine where we should be putting our resources.' The models do not tell policymakers what to do, Burke notes. Rather, they provide detailed information on the likely ramifications of the decisions they make.

The group also uses modeling to help simulate vaccine delivery in West Africa for a variety of diseases, including dengue fever and measles. "By modeling the vaccine supply chains of entire countries, we can help decision makers test how different strategies and changes may affect vaccine delivery and disease control," says Bruce Lee, Pitt assistant professor of medicine, epidemiology, and biomedical informatics. Working with WHO and host-country health officials, the group incorporates all the variables necessary to get a vaccine to a clinic—right down to the number of doses in each package and the size of refrigerated storage space.

The Central Agenda: Pushing the Boundaries in Research

As Burke noted earlier, for an academic institution like Pitt to have a long-term impact, it must focus on the problem-solving aspects of worldwide health issues-with a central agenda on global research. From HIV to TB to the genetics of birth defects. the University's robust research engine is helping to discover novel therapies, interventions, and diagnostic tools using a broad array of infected. Without new methods of prevention, techniques.

More and more, researchers are working in a global context, says Sharon Hillier, Pitt professor of obstetrics, gynecology, and reproductive sciences and of microbiology and molecular genetics. Hillier is head of the Microbicide Trials Network, which is piloting a study of 5,000 women in five countries in sub-Saharan Africa to test the efficacy of topical microbicides and prophylactic use of antiretroviral drugs (ARVs) to prevent sexual transmission of HIV.

"The old idea was that when you worked in global health, you were really trying to develop and deliver medicines to populations that didn't have enough doctors or enough medicine. Many people thought it wasn't possible to do good clinical research in those settings because there wasn't sufficient research infrastructure," says Hillier. "What we've learned is that you can do outstanding clinical research with these populations in the developing world as well as for women living in wealthy countries like the United States. Many people are surprised to hear that the trials done in the developing world will help find ways to reduce the spread of HIV in American women, too."

No Miracle Cure for HIV: The Microbicide Trials Network

Hillier's research comes at a time when perspectives on the HIV pandemic are shifting. An AIDS vaccine, once thought to be on the near horizon, is now considered to be many years away. And while ARVs have helped millions infected with HIV to live longer, they are not available to everyone who needs them. The pandemic continues to grow—33 million people worldwide, two-thirds of them in sub-Saharan Africa, are HIV positive—even as the public's fear of the disease has ebbed.

"People like to embrace the notion that HIV transmission has leveled off and AIDS is more manageable," says Hillier. "The problem is that when people become infected, they are infected for life, and there's a huge health cost and personal burden for people who carry HIV. For every two people who begin treatment, four or five people are newly we cannot gain ground against the epidemic.'

For proof of the epidemic's staying power, Hillier points to South Africa, where several Microbicide Trials Network sites are located. In the city of Durban, of the young women screened for the trials, between 35 and 40 percent test positive for HIV. "When you meet people in South Africa, it's very hard to find someone who doesn't have a cousin, a brother, an aunt, or an uncle who's been affected by AIDS," she says.

Hillier's is the first study of its kind to examine both a microbicide and an oral ARV pill in high-risk women. These prevention methods, if proven effective, could be particularly powerful in sub-Saharan Africa, where women make up 60 percent of the adult HIV population and, in many instances, have difficulty negotiating condom use with their partners.

'We've spent a lot of time thinking of ways to give women drugs to stop transmission from the HIV-infected mother to her baby. But how much better it would be to prevent moms from getting infected in the first place." Hillier says. "That's a much more powerful goal, I think."

How New Viruses Emerge: The Virus Hunter

Viruses are among the most abundant and successful species on earth. They also are responsible for much of human suffering: HIV, influenza, encephalitis, and a host of other deadly diseases are by-products of viral success. What makes viruses especially dangerous is their ability to mutate and jump from one species to the next. SARS, avian influenza, H1N1, and HIV have all entered the human population from other animal carriers. One Pitt researcher is traveling around the world to find out how new viruses are created and what specific mechanisms they use to jump carriers.

James Pipas, professor of biological sciences, is traveling to swamps and meadows looking for clues to virus mutation. He is testing a hypothesis that viruses can interchange large swaths of their DNA.

Continued on page 6



Phalguni Gupta is the principal investigator of a \$7.2 million grant from the National Institute of Allergy and Infectious Diseases to develop microbicides against HIV transmission. Gupta is a professor and assistant chair in the Pitt Graduate School of Public Health's Department of Infectious Diseases and Microbiology.



Center for Global Health: Creating a Healthier World

Called recombination, these gene swaps could explain how viruses mutate and jump species. A virus carried by a zebra, for instance, could conceivably swap DNA with a rhinoceros-borne bug and equip itself to jump carriers. Pipas developed an algorithm based on factors like biodiversity and the prevalence of rare species to predict the most likely hot spots for gene recombination.

The first place the model told him to look was southern Siberia, an area covered with shallow marshes and endless expanses of tick-filled grassland. As ticks are notorious virus hosts, Pipas is now trying to organize the largest tick collection in the world. "We think this type of genetic exchange could be contributing to emerging infectious diseases," says Pipas. "We want to go to nature and look for this process."

Pipas also has begun research on viruses in Borneo, Malawi, and Tibet. What he finds there could yield clues as to how new viruses emerge and why the diseases they cause continue to confound us.

Genetics:

Tracking the Origins of a Birth Defect

Cleft palate and cleft lip are among the most common birth defects in the world, and in developing countries they can be deadly if not treated properly. Clearly, these are genetically based defects, but scientists are still uncertain about the exact mechanisms by which parents pass them along to their children. The defects occur in about one in 700 births.

"That's a huge number," says Mary Marazita, professor of oral biology, human genetics, and psychiatry. "In contrast, most birth defects affect about one in 5,000 or even one

in 100,000 births."

Marazita studies the genetics of these birth defects to understand better their underlying causes. Her goal is to provide improved genetic counseling to parents and superior diagnostic tools for surgeons to improve outcomes for cleft patients.

"Facial defects are really hard on families," explains Marazita, "There's a lot of stigma around facial differences because humans are very attuned to faces. Anything to do with the face can have a big impact on your relationship with other people."

The impact of these birth defects is

particularly daunting in the developing world, where one in three newborns with a cleft palate doesn't survive because it is extremely difficult for them to ingest food.

A series of surgeries can greatly reduce both the defect and the number of years of dental procedures and speech therapy. The average cost of caring for a child born with a cleft lip and palate in the United States is between \$100,000 and \$200,000.

Marazita's group has found other more subtle facial defects that could signify whether a parent has a greater risk of passing on cleft lip or palate to his or her child. She collaborates with researchers around the world, from big-city surgical wards in China to rural clinics in Patagonia, to compile as much genetic detail on clefts as possible. Assembling a wide variety of study participants from Europe, Asia, and the Americas is helping Marazita and her collaborators track down the genetic clues to clefts.

"To gain a full understanding of the genetic and environmental factors that lead to clefts depends on getting to other parts of the globe," Marazita says, "and it's really bearing fruit for our research."

Probing the Depths of TB

Among the world's most dangerous diseases, tuberculosis (TB) has been with us for a long, long time: The bones of Egyptian mummies showed signs of tubercular decay. In the 1940s, U.S. researchers discovered powerful antibiotics that controlled the disease in the Western world, but the emergence of HIV has made TB an ever-more deadly disease in less-developed countries. When HIV suppresses the immune system, an otherwise resistant TB carrier succumbs more easily. This double epidemic of HIV and TB is prevalent in the developing world, where 1.6 million people die annually from TB.

So, understanding TB's molecular pathways is crucial in developing ways to slow this resilient disease. Among those at the forefront of the field is JoAnne Flynn, Pitt professor of microbiology and molecular genetics, medicine, and immunology.

Flynn says that the reason TB is such a resilient killer is that the bacterium that causes it, Mycobacterium tuberculosis, is uniquely designed to hide inside the body. "It's evolved incredibly with humans," says Flynn. "It's been in people since we became people. What you have

is a really successful pathogen. It has a lot of ways to survive."

One way TB survives is by lying in wait: It lies dormant in about 95 percent of its carriers. Flynn and her collaborators discovered that the bacterium can survive within a cluster of immune cellscalled a granulomainside the human lung. Conditions in some parts of some granulomas are anaerobic-meaning there is no oxygen, a state that would kill most invaders. But some TB strains can survive in that state for years, until the host's immune system is compromised enough for the bacterium to replicate.

Flynn and her collaborators have

developed a novel way of tracking the granulomas inside the lung by using advanced imaging to monitor in real time how TB tracks a carrier. She can study where granulomas form and how the immune system rushes to respond to a new bacterium. "There's nobody else doing this," Flynn says. "It's going to make a difference in how we deal with tuberculosis."

Flynn says that the Center for Global Health will help lab researchers like her by allowing for closer interaction with other researchers who deal with TB in the developing world, where rates are much higher than they are in the United States: "We can ask them, 'What are you really seeing on the ground?' We can get access to places where there are a lot more people with



Joanne Russell is director of Pitt's Center for Global Health. Once the domain of individual medical missionaries and biomedical explorers, global health has evolved into a scientific field that includes specialties ranging from epidemiology and virology to biostatistics and computer modeling. Pitt's center aims to tackle health challenges in a world that is becoming increasingly interconnected.

TB. It will also help us with our ultimate goal of putting on clinical trials in the field." Ultimately, Flynn thinks, this research could lead to a cure.

Paving the Way to the Future

Many, many more Pitt faculty than have been mentioned here are working in various facets of global health, from researching the root cause of illness, to training others to fight disease, to helping to guide policymakers in product development, public preparedness, and other policy matters. The University's researchers are committed to fighting disease, improving the quality of life, and creating a healthier world.

Thanks in part to the efforts of scientists at Pitt, global health is increasingly becoming centered on long-term collaborations and partnerships between institutions with similar missions and goals. A new project supported by the Center for Global Health involves collaborative research with Wuhan University in Wuhan, China, Pittsburgh's sister city. Pitt faculty members are sharing their expertise as Wuhan works to address environmental issues, particularly air pollution. The goal of the project is to examine the relationship between various pollutants and hospitalizations for specific cardiovascular and respiratory diseases in Wuhan. The Center also supports a collaboration with the University of Pittsburgh Medical Center (UPMC) International in Palermo, Italy, in which researchers are investigating ways to prevent liver transplant recipients from being re-infected with the Hepatitis C virus. Future partnerships also are expected to include joint programs with UPMC International in Ireland, and the United Kingdom, and Qatar. In addition, the Center for Global Health expects to play a major role in creating leaders for a global society and was approved as a host institution (along with Pitt's Graduate School of Public Health) for the Hubert H. Humphrey Fellowship Program beginning last semester.

If all of this sounds like a big challenge, Burke says, that's because it is: "We need to bring every tool at our disposal to this job, because the job is too important, and these problems are too serious for us to take them lightly. We are entering a period where we are all learning to work together on these problems because we have to. That is the vision for this Center for Global Health."

Recent NIH Funding For Pitt Global Health Research

The University of Pittsburgh's global health research programs receive significant funding from the National Institutes of Health. Among the more recent NIH grants are:

• \$13.4 million to establish a Center of Excellence in Modeling of Infectious Diseases Led by Donald S. Burke, dean of Pitt's Graduate School of Public Health and associate vice chancellor for global health, the center develops and tests computer simulations that will enable public health officials to evaluate intervention strategies to contain infectious disease outbreaks.

• \$7.2 million to develop microbicides against HIV transmission Principal investigator is Phalguni Gupta, professor and assistant chair, GSPH's Department of Infectious Diseases and Microbiology.

• \$17.5 million for two HIV-prevention projects, the Combination HIV Antiretroviral Rectal Microbicide (CHARM) program and the Microbicide Safety and Acceptability in Young Men program. Ian McGowan, a professor of medicine and of obstetrics, gynecology, and reproductive sciences in Pitt's School of Medicine, is principal investigator for CHARM. He and Alex Carballo-Dieguez from Columbia University are coprincipal investigators of the second program.

Thanks in part to the efforts of scientists at Pitt, global health is increasingly becoming centered on long-term collaborations and partnerships between institutions with similar missions and goals. A new project supported by the Center for Global Health involves collaborative research with Wuhan University in Wuhan, China, Pittsburgh's sister city.

7:45 p.m. Jan. 12, 2201 Posvar Hall,

Contemporary Queer Cinemas Public Film Series, Pitt's Women's Studies

Program, channabach@gmail.com,

Michelle Lynn Manni, School of Medicine's Cellular and Molecular Pathology Graduate Program, 10

a.m. Jan. 10, "Leukocyte-Derived Extracellular Superoxide Dismutase in

S123 Starzl Biomedical Science Tower.

Public Health's Department of Epide-miology, 1:30 p.m. **Jan. 12**, "Ambient Air Pollution, Smoking, and Reproduc-tive Outcomes," A523 Parran Hall.

Morgan Dileo, Swanson School of Engineering's Department of Bioen-gineering, 10 a.m. **Jan. 14,** "Multiple

Approaches to the Treatment of Sepsis

Using an Extracorporeal Device," Large Conference Room, McGowan

Pei-Chen Lee, Graduate School of

www.wstudies.pitt.edu/events.

Pitt PhD

Defenses

Pulmonary Disease,

Dissertation

Happening



Pratt Chair No. 4 by Gaetano Pesce, Permanent Collection, Ailsa Mellon Bruce Galleries, Carnegie Museum of Art, ongoing

Concerts

Rain: A Tribute to the Beatles, multimedia and multidimensional performance, 7:30 p.m. Jan. 11-13, Heinz Hall, 600 Penn Ave., Downtown, 412-392-4900, www.pgharts.org, PITT ARTS Cheap Seats, 412-624-4498, www. pittarts.pitt.edu.

Squirrel Hillbillies, acoustic folk, country, and blues music, noon Jan. 14, free, Cup & Chaucer Café, ground floor, Hillman Library, The Emerging Legend Series presented the University Library System and Calliope: The Pittsburgh Folk Music Society, www.calliopehouse. org/legends.htm.

Maceo Parker, renowned saxophonist and king of Funk, 7 p.m. Jan. 16, Byham Theater, 101 Sixth Ave., Down Incart, 107 Cultural Trust, 412-392-4900, www. pgharts.org, PITT ARTS Cheap Seats, 412-624-4498, www.pittarts.pitt.edu.

Exhibitions

University Art Gallery, Frick Fine Arts Building, Studio Arts Wyoming Field Study Exhibition, featuring work of four Pitt studio arts majors who studied at Pitt's Cook ranch, which is rich in

dinosaur fossils, Jan. 12-28, Pitt Department of Studio Arts, Univer-sity Honors College, 412-648-2430.

Hillman Library Latin American Lecture Room, American Associa-tion of University Presses (AAUP) Book, Jacket, and Journal Show, fea-turing award-winning book designs from across the country, **through** Jan. 21; 75th Anniversary of the University of Pittsburgh Press (UPP), selection of books representing the expanding range of UPP publications over the years, **through Feb. 18**, UPP and University Library System, 412-383-2493, mes5@pitt.edu.

Andy Warhol Museum, Marilyn Monroe: Life as a Legend, through Jan. 23, 117 Sandusky St., North Side, 412-237-8300, www.warhol.org

Carnegie Museum of Art, The Art of Structure, Heinz Architectural Center, through Jan. 30; André Kertész: On Reading, photography exhibition, **through Feb. 13**; Ordinary Madness: James Lee Byars at Carnegie Museum of Art, through **Feb. 20,** 4400 Forbes Ave., Oakland, 412-622-3131, www.cmoa.org.

Mattress Factory, Queloids: Race and Racism in Cuban Contemporary Art, through Feb. 27, 500 Sampsonia Way, North Side, Pitt's University Center for International Studies, Center for Latin American Studies. 412-322-2231, www.mattress.org

August Wilson Center for African American Culture, In My Father's House, mixed-media exhibition about how African Americans collect and erve their culture, **through June 2011,** 980 Liberty Ave., Downtown, Pittsburgh Cultural Trust, 412-456-6666, www.pgharts.org.

Lectures/Seminars/ Readings

"The European Interzone: Film and Culture in the EU," Randall N. Halle, Klaus Jonas Chair, Pitt's School of Arts and Sciences, 4:30 p.m. Jan. 11, 2500 Posvar Hall, Pitt Provost's Office Inaugural Lecture Series, www.provost.pitt.edu.

"What Einstein Wanted," Nicholas Rescher, Pitt Distinguished University Professor of Philosophy, 12:05 p.m. Jan. 14, 817R Cathedral of Learning, Pitt Center for Philosophy of Science, 412-624-1052, pittentr@ pitt.edu.

"Transatlantic Slave Trade," Patrick Manning, Andrew W. Mellon Professor of World History and direc-tor of World History Center at Pitt, 5-8 p.m. Jan. 19, 4130 Posvar Hall, Teaching World History Evening Workshop, Pitt World History Center, 412-624-3073, www.worldhistory. pitt.edu.

A Conversation With David Ferriero, the Archivist of the U.S.

Wednesday, January 19, 2011, 11 a.m. to 12:15 p.m., Room 121, David Lawrence Hall

The University of Pittsburgh's School of Information Sciences will sponsor a colloquium featuring David Ferriero, the archivist of the United States, from 11 a.m. to 12:15 p.m. Jan. 19 in Room 121, David Lawrence Hall. The discussion is open to the public and members of the University community. The archivist of the United States is the head of the National Archives and Records Administration

(NARA) and is appointed by the President of the United States. Ferriero, the nation's 10th archivist, was appointed to the position in November 2009. The NARA protects and preserves the records of vernment. There are 36 NARA facili the U.S. go across the United States, with approximately 3,000 full- and part-time employees.

Prior to his NARA appointment, Ferriero was the Andrew W. Mellon Director of the New York Public Libraries (NYPL). He was part of the leadership team responsible for integrating New York City's four research libraries and 87 branch libraries, creating the largest public library system in the United States and one of the largest research libraries in the world.

-Kelly Shaffer



David Ferriero

Presentation on books and graphics design, Rick Landesberg of Pittsburghbased Landesberg Design Associates, 4 p.m. Jan. 20, Hillman Library, first floor, Latin American Lecture Room, held in connection with American Association of University Presses and University of Pittsburgh Press exhibitions being shown in Hillman's Latin American Lecture Room, 412-383-2493, mes5@pitt.edu.

Miscellaneous

CIDDE CourseWeb Level 1 Workshop, instruction on Pitt's implementation of the Blackboard Learning Management System,

9-11 a.m Jan. 11; also offered 2-4 p.m. Jan. 31, B23 Alumni Hall, register online www.cidde.pitt.edu.

Stephen Foster Day, annual event celebrating life of America's first professional songwriter, who died Jan. 13, 1864, and who is buried in Allegheny Cemetery; children from Immaculate Conception School will sing Foster songs, and guest speakers will deliver remarks on Foster's contributions to American music and culture, 10 a.m. Jan. 13, Temple of Memories Mausoleum, Allegheny Cemetery, 4734 Butler St., Lawrenceville, 412-624-4100.

CIDDE CourseWeb Level 2 Workshop,

instruction on Pitt's implementation of the Blackboard Learning Management System, 9-11 a.m. Jan. 13; also offered 2-4 p.m. Feb. 2, B23 Alumni Hall, register online

Opera/Theater/ Dance

Mary Poppins by P.L. Travers, musical with songs by Robert B. and Richard M Sherman and featuring world's most famous flying nanny, through Jan. 23, Benedum Center, 719 Lib erty Ave., Downtown, PNC Broadway Across America, 412-471-6070, www. pgharts.org, PITT ARTS Cheap Seats, 412-624-4498, www.pittarts.pitt.edu.

Velvet Goldmine (1998, Todd Haynes), free and open to public,

Pitt Helps Commemorate Stephen Foster Day Jan. 13

The life and accomplishments of Pittsburgh native Stephen Foster will be celebrated Jan. 13 as the region marks the 147th anniversary of the composer's death.

Foster was born in the Lawrenceville section of Pittsburgh on July 4, 1826, and became a worldrenowned songwriter, portraying life in mid-19th America through such legendary compositions as "Old Folks at Home," "Oh! Susanna," "Camp-town Races," and "Beautiful Dreamer." He died at age 37 on Jan. 13, 1864, and is buried in Allegheny Cemetery in Lawrenceville.

At 10 a.m. Jan. 13, children from Immaculate Conception School will gather to sing Foster songs at the Temple of Memories Mausoleum, Allegheny Cemetery, 4734 Butler St., Lawrenceville.

Remarks will be made by Deane Root, Pitt professor of music and director and Fletcher Hodges Jr. Curator of Pitt's Center for American Music, and Jacqueline Longmore, a representative of the Lawrenceville Historical Society.

Foster's music is still widely used in television and films. The CD Beautiful Dreamer: The Songs of Stephen Foster (American Roots Publishing, 2004) won the 2005 Grammy Award in the category Best Traditional Folk Album.

"People all over the world see Foster as epitomizing American music," says Root. "He launched what we think of today as popular music, and his influence is still being felt."

-Sharon S. Blake



Maceo Parker, Byham Theater, January 16

Building.



www.cidde.pitt.edu.



University of Pittsburgh

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All in the Pitt Family



Chancellor Mark A. Nordenberg held his annual Staff Recognition Ceremony and Reception in Alumni Hall on Dec. 8, honoring Pitt employees who have served the University for 20 to more than 50 years. 1. Chancellor Nordenberg recognized Pitt employees who completed decades of service, including 20, 30, 40, 40-plus, 50, and 50-plus years. 2. Members of Mike and Jo Rosol's family garnered special recognition because of their allegiance to the University both as students and employees-six Pitt degrees among the five of them and a combined total of more than 100 years of service. Among the 19 employees with at least 40 years of service each, the Rosols met in 1970 while they were both employed at Pitt. Today, Mike Rosol (CGS '75) is manager of Pitt's bulk mail services in Point Breeze. Jo Rosol (CGS '88, EDUC '93) is director of enrollment management in the College of General Studies. Their son Jason (CBA '01) is a grants administrator in the School of Medicine, and son Derek (A&S '04) is a sales floor coordinator for the University Book Center. Derek's fiancée, Julie DePascale (CGS '05), is a secretary in the School of Arts and Sciences' Department of Communication Mike and Jo Rosol, like other employees with 40 years of service, were given watches. Front row (from left): Julie

DePascale and Derek and Jo Rosol. Back row (from left): Mike and Jason Rosol. 3. Two new members were welcomed into the "Fifty Year Club," (sitting) Ethel Ellis, a research diet technician in the Clinical and Translational Science Institute, and Sherman Watson, an employee in the School of Dental Medicine's Department of Instrument Management Systems. Both Ellis and Watson received chairs from Pitt to mark their service. Standing is Jerry Rosenberg, Pitt's research integrity officer, who was recognized for 57 years of service.

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PUBLICATION NOTICE The next edition of *Pitt Chronicle* will be published Jan. 18. Items for publication in the newspaper's Happenings calendar (see page 7) should be received at least two weeks prior to the event date. Happenings items should nclude 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 infor-mation. Items may be e-mailed to chron@ pitt.edu, faxed to 412-624-4895, or sent by campus mail to 422 Craig Hall. For more information, call 412-624-1033 or e-mail robinet@pitt.edu include the following information: title robinet@pitt.edu.