Trustees Approve FY 2008 Operating Budget

By John Harvith

Building on the unprecedented progress of recent years, Pitt trustees have approved a $1.64 billion operating budget for fiscal year (FY) 2008. The budget provides additional funding for academic and student life initiatives; research development; technology and infrastructure upgrades, including a campus-wide move to wireless; incremental strategic investments in fundraising and library acquisitions.

It also provides for tuition increases, ranging from 2 percent to 6.5 percent—increases that will support further investments in quality and that also reflect a continuing pattern of declining state support. In 1975, the Commonwealth appropriation represented 32 percent of the University’s operating budget; by 1995, it had fallen to 19 percent; and today it represents slightly more than 7 percent of Pitt’s operating budget.

The Pitt Board of Trustees’ Executive Committee approved the FY 2008 budget on July 20, shortly after the Board’s Budget Committee had recommended its approval. The Executive Committee is empowered to approve Pitt operating budgets on the full Board’s behalf.

The action followed the enactment last week of the FY 2008 Commonwealth budget, which includes appropriations for Pitt and Pennsylvania’s other state-related universities.

Pitt Chancellor Mark A. Nordenberg said, “The University of Pittsburgh continues to move through a period of remarkable progress. Among other things, this fall’s entering class will be drawn from the largest and strongest pool of applicants in our history. Our collective successes are evidenced by the remarkable company we now are keeping. In terms of overall performance, for instance, Pitt ranks in the very top cluster of the country’s public research universities, according to the 2006 edition of The Top American Research Universities. In rankings released in 2006 placing Pitt and its affiliates 7th nationally, among all universities, in funding from the National Institutes of Health. Another critical revenue component is the Commonwealth appropriation, which for FY 2008 includes a 2 percent increase in the primary Educational and General line item funding, set at $164.3 million. Combined with Department of Public Welfare reimbursements, student-related line items, and rural education outreach expenditures, Pitt’s total Commonwealth Appropriation for FY 2008 is $186.9 million. “While Pitt remains grateful for the annual Commonwealth appropriation, which we are not kept pace with inflation,” commented Arthur G. Ramicone, Pitt’s vice chancellor for budget and controller, “and when one accounts for the approximately $10 million of matching federal Medicaid funds that now fund health sciences, Pitt will receive less direct state support for fiscal year 2008 than it did in FY 2001. “We take satisfaction in being able to say that for every dollar invested in Pitt by the Commonwealth, the University brings in nearly $3.40 in external research support,” Ramicone added. “These dollars are largely spent on salaries, goods, and services here in the local area. They also support the development of new technologies that will help drive this region’s economy in future years. In many ways, then, they represent an extraordinary return on the Commonwealth’s investment.”

Pitt’s approved FY 2008 operating budget advances such priorities as faculty recruitment and retention, laboratory renovations, and library acquisitions. Utilities are budgeted to increase by 21.3 percent, or $10 million, primarily attributable to expected rate increases. Savings from conservation efforts have partially offset increases annually since fiscal year 2002, for a cumulative savings of $8 million.

Pitt has an ambitious $194 million FY 2008 capital budget, which continues to focus on renovations to the existing physical plant on all five campuses; many of the campuses’ buildings were built in the 1960s and ‘70s and require substantial renovations to meet new energy standards. To help fund these initiatives, tuition rates at the Pittsburgh campus generally will increase by 3 percent for Pennsylvania residents and out-of-state students. Tuition at Pitt’s regional campuses—Bradford, Greensburg, Johnstown, and Titusville—will increase by 4 percent for Pennsylvania residents and 3 percent for out-of-state students.

To help meet student needs, the budget for financial aid has increased by the same percentages as the tuition rates.

Tuition for the School of Dental Medicine’s first professional program will increase by 3 percent for both Pennsylvania residents and out-of-state students. The School of Medicine will raise tuition by 6.5 percent for Pennsylvania residents and 3 percent for out-of-state students. The approved budget also includes a faculty and staff salary increase pool of 3.5 percent, retroactive to July 1, 2007. “What has driven Pitt’s progress is the talent and commitment of its hard-working, high-achieving employees,” Nordenberg said. “As we become an even better university, we face increasingly intense competition to recruit and retain the very best faculty and staff, and because we are an institution that is so heavily dependent on the performance of its people, providing competitive levels of compensation is one key to maintaining our momentum.”

Building Pitt’s budget is a process that spans most of the year. It begins with the recommendations of planning and budgeting committees within the various responsibility centers of the institution and includes subsequent recommendations to the chancellor from the Universitywide Planning and Budgeting Committee, which includes administrators, faculty, staff, and students.

Recommendations made by the chancellor are submitted first to the Board’s Budget Committee and then to the Board or its Executive Committee for final approval. Because the FY ‘08 budget process had not been finalized by the time of the annual meeting of the board on June 29, the Budget Committee and Executive Committee took action last week.

“The University of Pittsburgh continues to move through a period of remarkable progress. Among other things, this fall’s entering class will be drawn from the largest and strongest pool of applicants in our history. Our collective successes are evidenced by the remarkable company we now are keeping. In terms of overall performance, for instance, Pitt ranks in the very top cluster of the country’s public research universities, according to the 2006 edition of The Top American Research Universities.”

—Chancellor Mark A. Nordenberg
Pitt Redesignated a Center of Academic Excellence for Information Assurance Ed

Information assurance education cited as contributing to nation’s cyberspace security

By Morgan Kelly

For its effectiveness in supporting the federal government’s priority on securing the country’s cyberspace, the University of Pittsburgh has once again been designated by the National Security Agency and the Department of Homeland Security as a National Center of Academic Excellence in Information Assurance Education (CAEIAE).

Pitt joined approximately 30 other schools as a CAEIAE, among them fellow redesignees Boston University, Syracuse University, and the United States Military Academy at West Point and newly designated Indiana University. Pitt and the other CAEIAEs were recognized June 5 during the annual conference of the Colloquium for Information Systems Security Education in Boston.

Pitt’s renewed designation spans the academic years 2007-12; its previous certification was for the 2004-07 school years.

“This is a significant recognition of the School of Information Sciences’ (SIS) important accomplishments in information security,” said Pitt Provost and Senior Vice Chancellor James V. Maher. “SIS Dean Ron Larsen, SIS faculty member James Joshi, and the members of the curriculum team are to be congratulated on this redesignation.”

Central to Pitt’s redesignation is the Security Assured Information Systems (SAIS) track of study offered through the graduate programs in information science and telecommunications in Pitt’s SIS. The SAIS tracks focus on the design and development of secure and reliable networked information systems; deployment, management, and maintenance of networks, systems, and IT infrastructures; and the evaluation and certification of security systems and software. The tracks are certified by the Committee on National Security Systems, a federal board that directs policy related to protecting classified government information.

The CAEIAE program aims to minimize the vulnerability of the United States’ information systems by promoting college-level instruction and research in network and information security, or information assurance (IA). A college or university applies for the CAEIAE designation and undergoes a thorough review of its contributions to IA education and research, including funded research projects, IA-focused curriculum, and the quantity and quality of published research, among other areas.

“This designation is a strong validation of Pitt’s high-quality IA-focused degree programs, and it says that Pitt is among the front-runners when it comes to IA-focused research,” said James Joshi, cofounder and director of Pitt’s Laboratory for Education and Research on Security Assured Information Systems and assistant professor of information science.

“CAEIAE status helps us attract superior students to Pitt’s IA-focused programs and positions the University to take advantage of unique opportunities available only to designated institutions,” Joshi added.

Students in a CAEIAE can apply for certain IA scholarships offered by the Department of Defense and for the National Science Foundation’s (NSF) prestigious Federal Cyber Service: Scholarship for Service. Last year, Pitt received the NSF award, which provides more than $1 million for four years to provide scholarships to students pursuing the SAIS tracks. Approximately a dozen institutions in the country currently feature a Scholarship for Service-supported program.

Formed in 1998, the CAEIAE program was expanded in 2003 under President George W. Bush’s National Strategy to Secure Cyberspace to address a perceived shortage of information security professionals. A designation does not carry a commitment of federal funding.

Correction. The Pitt Chronicle’s July 9 report on the appointment of Juan Manfredi as the School of Arts and Sciences’ new associate dean for undergraduate studies included a photo of one of Manfredi’s colleagues instead of Manfredi.
Far fewer rheumatoid arthritis patients treated with the drug hydroxychloroquine (HCQ) went on to develop diabetes compared with those who never took the drug, according to a 20-plus-year Pitt School of Medicine-led study reported in the Journal of the American Medical Association July 10.

In addition, those using HCQ who did develop diabetes were less likely to take medications to manage their disease after diagnosis.

The multicenter observational study of 4,995 adults with rheumatoid arthritis (RA) found that relative risk progressively declined by as much as 77 percent after four years of treatment with HCQ, a common antimarial medication that also is used for rheumatoid arthritis and other autoimmune disorders.

“This reduction in risk persisted even after adjusting for other diabetes risk factors among these patients, such as body-mass index, degree of disability, and use of corticosteroids,” said Mary Chester M. Wasko, a rheumatologist who is a professor in Pitt’s Department of Medicine and a professor in Pitt’s School of Nursing.

Because people with RA tend to be less active and take corticosteroids, “it’s not unusual that people with RA tend to have diabetes because of their inability to exercise or produce the hormone insulin,” she said.

“Another interesting finding was that the rheumatoid arthritis patients who developed diabetes were less likely to need blood sugar-lowering medication to manage their disease, a disease in which blood sugar levels become abnormally high because of the body’s inability to use or produce the hormone insulin,” said Wasko, whose clinical research has focused on long-term health improvement in patients with RA. “However, it is most exciting to consider that this drug might be appropriate for people with prediabetes as a preventive therapy — much in the same way as a daily baby aspirin is suggested for people at high risk for heart disease.”

Nationally, diabetes is the fifth-leading cause of death, according to the American Diabetes Association. Many people first become aware of the disease when confronted with one of its life-threatening complications, which include heart disease, blindness, high blood pressure, stroke, kidney disease, and circulatory problems that can lead to amputation.

Results show that HCQ’s association with reduction in diabetes risk is comparable or superior to that of a number of other drugs studied in clinical trials for diabetes prevention and treatment, including rosiglitazone, hormones, metformin, acarbose, and ramipril. And recent questions have arisen concerning rosiglitazone, marketed as Avandia, and a reported increased risk of heart attack.

Although HCQ can cause such side effects as nausea, headache, and dizziness, the drug has a long history of being generally safe and well-tolerated.

In addition, Wasko and her colleagues observed no apparent negative interactions between HCQ and other drugs commonly used by RA patients, such as methotrexate and prednisone. An important limitation of the study, however, is that investigators used self-report information from patients collected in follow-up twice yearly that did not include confirmation by laboratory tests.

Other studies of the blood sugar-lowering effects of HCQ have shown minimal use for the drug as a treatment for people with established diabetes, Wasko said, stressing that the treatment’s real promise may be in prevention.

“HCQ already has a role in long-term treatment for RA, potentially moderating lipids and having a weak anticoagulant effect,” she said. “But, optimistically speaking, endocrinologists can identify people who are at high risk for diabetes due to obesity, family history, lipid profile, or other characteristics. HCQ may also have a role in delaying onset of diabetes. More research is needed to verify our findings in people with RA, and also to determine how this medicine works.

But my ultimate hope is that this relatively inexpensive, safe drug will be studied as a way to reduce diabetes risk for people who do not have RA.”

In addition to Pitt, institutions participating in the study are Stanford University, the National Institute of Arthritis and Musculoskeletal and Skin Diseases, and the University of Cincinnati.

Botox: It’s More Than Cosmetic

Men with enlarged prostates can benefit from Botox injections for up to a year after treatment

By Clare Collins

Injecting botulinum toxin A, or Botox, into the prostates of men with enlarged prostates caused improved quality of life for up to a year after the procedure, according to a study by researchers at Pitt and Taiwan’s Chang Gung University Medical College.

“Millions of men in the United States suffer from enlarged prostate,” said Michael B. Chancer, senior author of the study and a professor of urology and gynecology in Pitt’s School of Medicine. “It’s a challenging disease to live with, because it causes frequent and difficult urination. Unfortunately, common treatments also are problematic because they carry some risk of serious side effects, such as impotence. Our results are encouraging, because they indicate that Botox could represent a simpler, safe, and effective treatment for enlarged prostate that has long-term benefits.”

The study participants, who were previously diagnosed with symptomatic benign prostate hyperplasia (BPH) that did not respond to standard medical treatment, received injections of Botox directly into their prostate glands. Up to one year later, 27 of these patients (73 percent) experienced a 30 percent improvement in urinary tract symptoms and quality of life. Patients did not experience any significant side effects.

According to Yao-Chi Chuang, principal investigator of the study from Chang Gung University Medical College, Botox reduces the size of the prostate gland through a cellular process called apoptosis, in which the prostate cells die in a programmed manner. This reduction in size can improve urine flow and decrease residual urine left in the bladder.

BPH is one of the most common diseases affecting aging men. More than half of all men over the age of 60, and 80 percent by age 80, will have enlarged prostates; 40 to 50 percent will develop symptoms, which include frequent urination, urinary tract infections, the inability to completely empty the bladder, and, in severe cases, eventual damage to the bladder and kidneys.

Results of the study, which was funded by a grant from Allergan, were presented during the annual meeting of the American Urological Association in Anaheim, Calif., in May.
Science & Technology

New Antibody Reduces Cell Proliferation and Induces Cell Death in Human Liver Cancer Cells

By Jim Swyers

Pitt School of Medicine researchers have reported a significant new advance in the search for an effective treatment for human liver cancer. Using a newly available monoclonal antibody, they have demonstrated significant reductions in tumor cell proliferation and survival in human and mouse hepatocellular cancer (HCC) cell lines.

According to the Pitt research, published in the July issue of *Molecular Cancer Therapeutics*, this finding has significant implications not only for the treatment of liver cancer but for a number of different types of cancer.

Most cases of HCC are secondary to a viral hepatitis infection or cirrhosis of the liver. Despite recent advances, HCC remains a disease of grim prognosis because of the poorly understood mechanism of how the disease originates and spreads. Most patients live only a short time after diagnosis.

Based on previous studies showing that some pathways that were previously thought to be active only during fetal liver development—particularly the class III receptor tyrosine kinase (RTK) family pathway—became highly active again in the liver of HCC patients, Satdarshan P. Singh Monga and colleagues in Pitt’s medical school obtained rat and human liver cancer cell lines and analyzed them for level of expression of an RTK protein known as platelet-derived growth factor receptor-alpha, or PDGFRα.

The investigators also analyzed the cells for their level of activation of the PDGFRα gene. At an early fetal stage of liver development in the mouse, investigators found that the level of expression of PDGFRα was 37 times higher compared to later stages of development in the adult mouse liver. They also found significantly higher levels of PDGFRα in rat and human liver cancer cell lines as compared to normal cells in culture.

Monga’s group then treated human and mouse liver cancer cell lines with a monoclonal antibody targeted against PDGFRα. It resulted in a significant decrease in tumor cell proliferation and a marked increase in tumor cell death. In fact, all tumor cell lines experienced significant decreases in proliferation in response to the monoclonal antibody, and there was a 4- to 18-fold increase in programmed cell death, or apoptosis, among the cancer cell lines compared to normal control cells.

According to Monga, these results suggest that PDGFRα offers an important new therapeutic target for the treatment of HCC.

“We are very excited, because this is the first targeted therapy for liver cancer,” said Monga, a professor in the medical school’s Division of Cellular and Molecular Pathology. “Other therapies have some modest benefits, but no one knows exactly how they work. We now have identified a pathway that appears to be overly active in more than 70 percent of the cancers we examined and, when targeted, leads to significant reduction in tumor cell proliferation and survival.”

More importantly, targeting the PDGFRα pathway in liver cancer cells does not appear to affect normal liver cells, making the treatment relatively nontoxic. “Normally, regenerating liver cells are not exclusively dependent on this pathway, and it is not overly active in other types of cells. So this monoclonal antibody is a highly targeted treatment for this disease,” Monga added.

Furthermore, because high expression of PDGFRα has been detected in a variety of tumors, such as skin cancer, brain tumors, gastrointestinal tumors, prostate tumors, ovarian cancer, and leukemia, Monga believes these findings could have much broader applications.

The Pitt research was funded by grants from the American Cancer Society and the National Institutes of Health as well as the Cleveland Foundation and the Rango’s Fund for Enhancement of Pathology Research.

Pitt Receives Grant to Improve Quality of Life for Seriously Ill

By Clare Collins

The Institute to Enhance Palliative Care in Pitt’s School of Medicine has received grants totaling $250,000 to improve the ability of critical care fellows to communicate with their patients about end-of-life issues. The grants include a two-year $150,000 award from the National Palliative Care Research Center and a separate award of $100,000 from the Jewish Healthcare Foundation in Pittsburgh.

“IT is vitally important that fellows learn how to communicate effectively and empathetically when they are dealing with patients who are terminally ill,” said Robert Arnold, professor of medicine and chief of the palliative care and medical ethics section in Pitt’s medical school. “Studies show that good communication allows patients to receive care consistent with their goals and decreases family distress.”

According to Arnold, critical care fellows normally receive no formal training about how to conduct these difficult conversations with families. Moreover, no fellowship program has developed a curriculum that enables fellows to practice and receive feedback on their communication skills in a positive environment. The grants to Pitt will be used to develop and implement a comprehensive, evidence-based educational intervention for training fellows in palliative care communication skills.

The three-and-a-half-day intervention will use interactive presentations, practice with simulated families, and reflective exercises to improve communication skills. At the completion of the intervention, an expert panel will review the curriculum to assess how realistically it represents possible scenarios and its educational soundness.

In addition, nurses will help evaluate whether fellows’ communication skills improved. Preliminary data collected will be used by Arnold for a larger study on whether an educational communication intervention can improve the experiences of patients and their families in critical care situations.

For more information, visit www.dgim.pitt.edu/iepc/index.asp.
High Honors: UHC Celebrates 20th Anniversary

Pitt’s University Honors College (UHC) celebrated its 20th anniversary with the first-ever UHC Alumni Reunion at the Petersen Events Center in May. Alumni and friends toasted the college and roasted UHC Dean G. Alec Stewart, presenting him with a caricature of himself (pictured below) by Pittsburgh Post-Gazette editorial cartoonist Rob Rogers.

UHC reunion weekend activities included seminars and tours of UHC. During a tour of UHC’s facilities on the Cathedral of Learning’s 35th and 36th floors, Ken Doyno (above right), a partner at Rothschild Doyno Architects in Regent Square and lead architect of the 2002-03 renovation of the college, described for UHC alumni and staff details of the stained glass designed by Glenn Greene Glass of Regent Square.

A recently installed, 180-pound granite plaque on the Cathedral of Learning’s first floor is engraved with the dedication date, region, and architectural style of each of Pitt’s Nationality and Heritage Rooms. Also engraved are the names of current Nationality Rooms Program Director E. Maxine Bruhns (pictured above) and founding director Ruth Crawford Mitchell, as well as examples of the languages of the rooms’ lands of origin. The Cathedral currently houses 26 Nationality and Heritage Rooms; eight more are in the planning stages.

NURSING’S CLASS OF ’47

Six members of the Pitt School of Nursing’s 1947 graduating class returned to the Pittsburgh campus for the school’s Alumni Day 2007 on May 19. Pictured from left: Nadine Frye, Phyllis Dunkle Ziants, Lucie Young Kelly, Rachel Poole, and Adena Johnson Davis. Missing from the photo is Rosemary Kelly.

Frye, Kelly, and Poole each went on to receive a Master of Letters degree from Pitt’s nursing school and a Ph.D. degree from the University’s School of Education. Davis was the first African American student admitted to Pitt’s nursing school; she, Frye, and Poole were among the school’s first Black graduates.

More than 100 alumni and guests attended this year’s Alumni Day, an annual event celebrating nursing education at Pitt.
Awards Banquets Cap Record-setting Seasons

Pitt recognized the achievements of its 2006-07 men’s and women’s basketball squads during annual team banquets at downtown’s Hilton Pittsburgh in April. The men’s team finished its season with records of 29-8 overall and 12-4 within the Big East Conference. The Panthers advanced to a school-record sixth consecutive NCAA Tournament, won 20-plus games for a school-record sixth straight year, and won more than 10 Big East games for the sixth consecutive season. Pitt is the only men’s basketball team in the Big East to achieve those marks. The women’s team earned a 24-9 record—its best ever—while advancing to the second round of the NCAA Tournament; the team defeated James Madison University, 71-61, in the Panthers’ first-ever NCAA Tournament game.

Senior center Aaron Gray (pictured at center, above, and, at right with Head Coach Jamie Dixon) was named the men’s team’s Most Valuable Player. Gray led the Panthers in scoring (13.9 points per game), rebounding (9.5 per game), field goal percentage (56.5), and blocked shots (62). A consensus All-American and All-Region honoree, Gray also was named the 2006-07 Big East/Aeropostale Scholar-Athlete of the Year. Last month, the Chicago Bulls selected Gray in the NBA draft’s second round.

Junior center Marcedes Walker (No. 45) was named to the All-Big East First Team in women’s basketball. She also was named a Kodak/WBCA District I All-American, Pitt’s first in 16 years.

Above from left, at the men’s basketball team’s year-end banquet: Chancellor Mark A. Nordenberg, men’s basketball team Head Coach Jamie Dixon, and Pitt Athletic Director Jeff Long.

Right: Senior guard Antonio Graves, pictured with Coach Dixon, was named the Panthers’ Best Defensive Player.

Right: Coach Berenato with sophomore guard Shavonte Zellous. Below right: Berenato with Marcedes Walker. Both players were named to the All-Big East First Team.
Donald S. Burke, dean of Pitt’s Graduate School of Public Health (GSHP), and the University’s associate vice chancellor of global health, has been named an Ambassador in Research!America’s Global Health Fellows Program. Burke, who is also a professor of infectious diseases at the Johns Hopkins Bloomberg School of Public Health, was one of 10 U.S. public and private universities selected to participate in the program. The university will receive a $35,000 grant to fund the research and travel of a team of students, faculty, and administrators to explore career opportunities in global health and to assess the potential for partnerships and collaborations with other institutions around the world. The project will focus on identifying and developing new educational programs in global health, as well as identifying and leveraging existing resources to support global health efforts. The project will also provide opportunities for students and faculty to network with other institutions and organizations working in global health, as well as with policymakers and health care providers. This will allow the university to identify potential areas for collaboration and to develop new partnerships and programs that can help address some of the world’s most pressing global health challenges.

The grant will be used to support the travel and research of a team of students, faculty, and administrators from the university, as well as to fund the development of new educational programs in global health. The project will focus on identifying and developing new educational programs in global health, as well as identifying and leveraging existing resources to support global health efforts. The project will also provide opportunities for students and faculty to network with other institutions and organizations working in global health, as well as with policymakers and health care providers. This will allow the university to identify potential areas for collaboration and to develop new partnerships and programs that can help address some of the world’s most pressing global health challenges.

The project will be led by Donald S. Burke, dean of Pitt’s Graduate School of Public Health (GSHP), and the University’s associate vice chancellor of global health. Burke, who is also a professor of infectious diseases at the Johns Hopkins Bloomberg School of Public Health, was one of 10 U.S. public and private universities selected to participate in the program. The university will receive a $35,000 grant to fund the research and travel of a team of students, faculty, and administrators to explore career opportunities in global health and to assess the potential for partnerships and collaborations with other institutions around the world. The project will focus on identifying and developing new educational programs in global health, as well as identifying and leveraging existing resources to support global health efforts. The project will also provide opportunities for students and faculty to network with other institutions and organizations working in global health, as well as with policymakers and health care providers. This will allow the university to identify potential areas for collaboration and to develop new partnerships and programs that can help address some of the world’s most pressing global health challenges.

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Jul 23

PhD Dissertation Defense by Nocia Perruquia, Pitt Department of Bioengineering, “Dilu-
vation-induced Regulation of epigallocatechin Interaction Force Assessed Using Attractive Force Microscopy,” 1 p.m., 750 Benedum Hall.

PhD Dissertation Defense by Hyung Sam Park, Pitt Depart-
ment of Sociology, “A Longitudi-

Audubon Print Exhibition, Fourteenth Annual, through July 30, Hillman Library ground floor. Pitt Department of Special Collections, 412-648-7715, library.pitt.edu/images/audubon.

Art Exhibitions, Maggy Aston: Drawings and Constructions; Inside Out Six: Selections from the Flat Files; and Big F***ing Thing, New Works by John East-
man, all through Aug. 18, Dig-

Art Exhibition, Fibervest Interna-


Jul 24

PhD Dissertation Defense by Andrew Aurand, Pitt’s Graduate School of Public and International Affairs, “Is Smart Growth Smart for Low-income Households?: A Study of the Impact of Four Smart Growth Principles on the Supply of Affordable Housing,” 10:30 a.m., 3412 Posvar Hall.


PhD Dissertation Defense by Brian Heapburn, Pitt Department of the History and Philosophy of Science, “Equilibrium and Explain-
aton in 18th Century Mechan-
ics,” 1 p.m., 428 Cathedral of Learning.

Theatrical Performance, Cuts by Andrew Lloyd Webber and T.S. Eliot, 8 p.m., continues through July 29, Benedum Center for the Performing Arts, Seventh and Penn avenues, downtown, Pitts-

Workshop, “Doing Business with the Commonwealth of Pennsyl-
vvania,” 9 a.m., 309 Merivis Hall, Pitt’s Small Business Development Center; to register, 412-648-1542.

PhD Dissertation Defense by Guillermo Rodriguez, Pitt Depart-
ment of Linguistics, “Second Language Sentence Processing: Is It Fundamentally Different?” 10 a.m., 2809 Cathedral of Learn-
ing.


Film Screening, Mission Impos-

Jul 26


PhD Dissertation Defense by Jun Bizhang, Pitt Department of the History and Philosophy of Science, “Equilibrium and Explana-
tion in 18th Century Mechanics,” 1 p.m., 428 Cathedral of Learning.

Theatrical Performance, Pigs, Luci, Bovm, 8 p.m., 1501 Fort Pitt Hall, Pitt Film Studies Program’s Films of Pedro Almodovar series, till140 pitt.edu or cki40.pitt.edu.

Workshop, “The Second Stage: Developing a Business Plan,” 7:30-10 a.m., 309 Merivis Hall, Pitt’s Small Business Development Center; to register, 412-648-1542.

Car尾 Market, 3:30-6:30 p.m., every Friday through Nov. 16, Semmess Street between Atwood Street and Meyran Avenue, Oakland Business Improvement District, 412-683-6242, www.cityofoakland. org.

Film Screening, Mission Impos-

Jul 27

Workshop, “The Second Stage: Developing a Business Plan,” 7:30-10 a.m., 309 Merivis Hall, Pitt’s Small Business Development Center; to register, 412-648-1542.

Farmers’ Market, 3:30-6:30 p.m., every Friday through Nov. 16, Semmess Street between Atwood Street and Meyran Avenue, Oakland Business Improvement District, 412-683-6242, www.cityofoakland.org.

PhD Dissertation Defense by J. Scott Vaidhjips, Pitt Department of Bioengineering, “Cortotomy: Arterial Dynamics and Athero-
egensis,” 12:30 p.m., Conference Room A, Bridgeside Point Build-
ing, Second Ave.

Film Screening, Heart of the Game, directed by Ward Stryff, dusk, Schenley Park’s Flagstaff Hill, CittiParks’ Cinema in the Park series, 412-937-3939.

Aug 1


Hall.

Musical Performance, Aretha Franklin, 7:30 p.m., Heinz Hall, 600 Penn Ave., downtown, 412-392-4000, www.pits-
burghsymphony.org/philsymph. net/concert-listings.

Film Screening, The Muppets Take Manhattan, 12 noon, 3144 Pitt Blvd. or cki40.pitt.edu.

Aug 5

Film Screening, Charlotte’s Web, directed by Gary Winick, dusk, Schenley Park’s Flagstaff Hill, CittiParks’ Cinema in the Park series, 412-937-3939.

Aug 7

Musical Performance, Nelson Harrison, 5 p.m., Katz Plaza, Penn Avenue and Seventh Street, downtown, Pittsburgh Cultural Trust’s JazzLive Katz Park series, 412-456-6666.

Aug 8

PhD Dissertation Defense by Jeanine M. Buchanan, Pitt Department of Epidemiology, “A Clinical Decision-making Rule for Mild Head Injury in Children Less Than 3 Years Old,” 3:30 p.m., A252 CitiParks’ Hall.

Film Screening, Rocky Balboa, directed by Sylvester Stallone, dusk, Schenley Park’s Flagstaff Hill, CittiParks’ Cinema in the Park series, 412-937-3939.

Aug 10

Musical Performance, Dave Matthews Band, 7 p.m., Post-
gazettePavilion, Rt. 18, Burgett-


Aug 12


Film Screening, The Ant Bully, directed by Joel A. Davis, dusk, Schenley Park’s Flagstaff Hill, CittiParks’ Cinema in the Park series, 412-937-3939.

Aug 15

Film Screening, The Devil Wears Prada, directed by David Frankel, dusk, Schenley Park’s Flagstaff Hill, CittiParks’ Cinema in the Park series, 412-937-3939.

Aug 16

1st Annual Greater Pittsburgh DiverseCityFestival, diversity and community highlighting Pittsburgh’s global business and diverse workforce competitiveness, Aug. 16-17, Westin Convention Center Hotel, downtown, offers events, including concerts by Buddy Guy, Del Ca-
pell E. Wailer, and Mavis Staples, noon-10 p.m. Aug. 18 and noon-6 p.m. Aug. 19, PNC Fireside Park, First Avenue and Grant Street, downtown, www. DiverseCityPittsburgh.org.

Lecture, “Improve Your Quality of Life Through Mindfulness,” Carol Greco, Pitt research assis-
tant professor of psychiatry, 5:30-7:30 p.m., UPMC Center for Integrative Medicine’s ShadySide Place location, Suite 310, 580 S. Aiken Ave., 412-623-3023.

Aug 17


Aug 22

Film Screening, Haplo, Feet, directed by George Miller, dusk, Schenley Park’s Flagstaff Hill, CittiParks’ Cinema in the Park series, 412-937-3939.

PUBLICATION NOTICE: The next edition of the Pitt Chronicle will be published Aug. 22. The deadline for submitting information is 5 p.m. Aug. 17. Items should be submitted to chron@pitt. edu. Happening items should include the following informa-
tion: title of the event, name and title of speaker(s), date, time, location, sponsor(s), and phone number and web site for additional information. Items also may be faxed to 412-624-4895 or sent by campus mail to 422 Craig Hall. For more information, call 412-624-1053.