





# Page2

## Weather



TUESDAY  
Hi: 89  
Lo: 66



WEDNESDAY  
Hi: 88  
Lo: 68



THURSDAY  
Hi: 75  
Lo: 61



FRIDAY  
Hi: 75  
Lo: 61



SATURDAY  
Hi: 79  
Lo: 64

## Crime & Incident

### Disorderly Conduct

August 15, 2007  
at 10:41 a.m.

A male was caught stealing a university employee's wallet while the employee was in her office. The actor fled the scene. The employee chased the actor to a bus stop, where she called police. The actor was apprehended by University Police and admitted to the theft.

### Fire Alarm

August 16, 2007  
at 1:10 p.m.

A fire alarm was set off in Margaret Morrison Carnegie Hall. The Pittsburgh Bureau of Fire arrived on the scene and found that dust from construction in the area had gotten caught in the detector and caused the alarm to sound.

### Noise Complaint

August 20, 2007  
at 12:29 a.m.

Students complained of excessive noise coming from the fraternity quadrangle. University Police arrived on the scene and advised the members of fraternities in the area to quiet down.

### Fire Alarm

August 20, 2007  
at 11:07 a.m.

The fire alarm sounded at McGill House. University Police arrived on scene and found no signs of smoke. The alarm was reset.

### Theft

August 21, 2007

at 2:10 a.m.

A student reported that his wallet had been stolen from the University Center. The wallet was left unattended.

### Fire Alarm

August 22, 2007  
at 11:11 p.m.

A fire alarm was set off in Scobell House. The Pittsburgh Bureau of Fire arrived and found no signs of smoke. Firefighters determined that a student had mistakenly activated the alarm.

### Suspicious Vehicle

August 23, 2007  
at 1:54 a.m.

University Police received a report of a suspicious vehicle by university housing near Margaret Morrison Street. University Police removed the vehicle from the area.

### Fire Alarm

August 23, 2007  
at 2:53 a.m.

A fire alarm sounded at the Kappa Delta Rho house. University Police arrived on scene and checked and cleared the area.

### Theft

August 23, 2007  
at 1:40 p.m.

A student reported that his belongings had been stolen from his tent by the Fence. The tent had been left unattended.

Compiled by  
Sabrina Porter

## Corrections

## Clarifications

If you would like to submit a correction or clarification, please e-mail The Tartan at [news@thetartan.org](mailto:news@thetartan.org) or [editor@thetartan.org](mailto:editor@thetartan.org) with your inquiry, as well as the date of the issue and the name of the article. We will print the correction or clarification in the next print issue and publish it online.



J.W. Ramp/Assistant Photo Editor

(Hint: It's not TBA)

First-year students wait en masse to eat dinner after the convocation ceremony on Thursday night. Convocation officially inducts the first-years into the university community. The ceremony includes spirited cheers from each academic college and the sound of Carnegie Mellon's traditional bagpipes to show the Scottish Tartan pride. After the dinner, students boarded buses for the Clippership cruise.

## Statistically Speaking

Today, we expect college to follow high school like we expect "Not much" to follow "What's up?" Yet, for most of American history, people haven't been vying for B.A. or B.S. degrees. While not all Americans attend post-secondary schools, college attendance has increased tremendously over the last two generations. In addition, more women are earning degrees than men.

Percentage of the population 25 years and older with a bachelor's degree or higher in 1940:	4.6
Percentage of high school grads who went to college (two- or four-year) immediately after high school in 1972:	49
Percentage of high school grads who went to college (two- or four-year) immediately after high school in 2005:	69
Percentage of undergraduates in 1970 who were female:	42
Percentage of undergraduates in 2000 who were female:	56
Sources: <a href="http://nces.ed.gov">nces.ed.gov</a> , <a href="http://www.census.gov">www.census.gov</a>	
Compiled by Steven Weinberg	

## Students and faculty experience benefits of innovation

### EnergyPod installed in Hunt Library

This summer, an EnergyPod was installed in Hunt Library across from the Maggie Murphy café. The pod, created by MetroNaps, allows for undisturbed napping.

The pod's basic design is spherical on the outside, but contains a lounging chair with ample space for leg resting inside. The design allows for a darkened environment for the sleeper. The pod also contains speakers, but the music played is not heard by passersby, and the design effectively silences outside noise so the sleeper can have a peaceful rest.

MetroNaps was co-founded

by a Carnegie Mellon alumnus, Arshad Chowdhury. His goal was to make it easier for workers to take naps during the workday. Naps are an effective method of boosting morale and creativity, and they help to promote memory retention.

EnergyPod design from MetroNaps is currently in use by students, workers, and doctors worldwide.

### Von Ahn named one of world's top innovators under 35

Assistant computer science professor Luis von Ahn was recently named one of the top 35 innovators under the age of 35 by *Technology Review* magazine.

Von Ahn was selected from a pool of over 300 nominees to receive the honor. He was chosen for his contributions to the field of human computation.

A pioneer of CAPTCHA technology, von Ahn has taken new strides with the technology. CAPTCHAs are used by many websites during registration to ensure that humans, not computers, are attempting to register. Yahoo!, for example,

uses CAPTCHAs to prevent spammers from using automated programs to obtain users' e-mail addresses.

CAPTCHAs show distorted words in a picture, and users must correctly decipher the word in order to complete registrations and gain access to websites.

Von Ahn's new project, called reCAPTCHAs, is attempting to use CAPTCHAs to help in the process of digitizing books. Lines of text from old books unable to be properly deciphered by optical character recognition programs are scanned, distorted, and used as CAPTCHAs.

The reCAPTCHA program pairs an unknown scanned word with a known word. Users must enter both of the words correctly in order to access the site.

Thousands of websites have already begun to use this system, and millions of previously undecipherable words in books have been identified.

Von Ahn is also the inventor of the ESP game, a multiplayer game used to help properly tag Google photos.

Compiled by  
Amanda Cole

## Lecture Preview

### Outreach is year's first lecture topic

by Claire Morgenstern  
News Editor

**Title:** University Lecture Series — Mike Woodard

**The Basics:** Mike Woodard, a founder of Jubilee House Community, Inc., will speak about the Center for Development in Central America. The Jubilee House Community is a service ministry that provides shelter, food, and medical treatment for the poor and homeless.

The group's current focus is on providing these services to communities in Central America, particularly Nicaragua.

The lecture is part of the University Lecture Series.

**When:** Monday, September 10, 4:30 p.m.

**Where:** Adamson Wing (Baker Hall 136A)

**Title:** Center for the Arts in Society Research Forum

**The Basics:** Hilary Robinson, the Stanley and Marcia Gumberg Dean of the College of Fine Arts and author of *Reading Art, Reading Irigaray*, will discuss the work of Luce Irigaray, a celebrated feminist theorist in philosophy, gender, linguistics, and psychoanalysis. Robinson hopes to expose a wider audience to Irigaray's work through a clear explanation of the theorist's main ideas.

The lecture is sponsored by the Center for Arts in Society.

**When:** Tuesday, September 18, 4:30 p.m.

**Where:** Hunt Library, Fine and Rare Book Room (fourth floor)

**Title:** University Lecture Series — Journeys Series

**The Basics:** Randy Pausch, professor of human-computer interaction and co-founder of Carnegie Mellon's Entertainment Technology Center, will speak about the everyday joys and challenges of his job.

Pausch's work specializes in human-computer interaction, virtual reality, entertainment technology, and introductory computer programming.

This is the first lecture in the "Journeys Series," in conjunction with the University Lecture Series.

**When:** Tuesday, September 18, 4:30 p.m.

**Where:** Adamson Wing (Baker Hall 136A)

**Title:** SCS Distinguished Lecture Series — Kai-Fu Lee

**The Basics:** Kai-Fu Lee, vice president of Google, will discuss the engineering, product development, and public affairs initiatives he designed to help develop Google's operations in China.

Lee graduated from Carnegie Mellon with a Ph.D. in computer science. From 1988 to 1990, Lee served as an assistant professor at Carnegie Mellon, during which he developed the world's first speaker-independent continuous speech-recognition system. He joined Google in 2005.

The lecture is part of the School of Computer Science Distinguished Lecture Series.

**When:** Thursday, September 20, 4 p.m.

**Where:** McConomy Auditorium, University Center

**Title:** University Lecture Series — David Harvey

**The Basics:** David Harvey, a professor in the Ph.D. program in anthropology at the CUNY Graduate Center in New York City, will speak about his work. Harvey specializes in issues regarding urbanization, environment, political economy, and advanced capitalist countries.

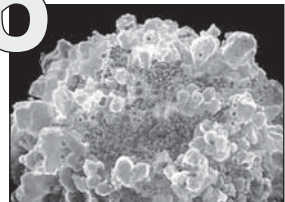
The lecture is co-sponsored by the English department and the Humanities Center. It is part of the University Lecture Series.

**When:** Thursday, September 20, 4:30 p.m.

**Where:** Adamson Wing (Baker Hall 136A)

## Science & Technology

### 6 Research on HIV



Also:  
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Allergy season hits

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"Minimum" wage  
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## Sports

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Changes to the sports community  
October predictions for MLB

## Pillbox

### 9 Orientation photospread



Also:  
Dorm decor  
New restaurants



# William Brown, biological sciences, dies at 62



Courtesy of Rebecca Bollinger

by **Claire Morgenstern**  
News Editor

William Brown, a member of Carnegie Mellon's department of biological sciences for 34 years and an innovator who was involved with some of the university's most well-known interdisciplinary initiatives, died Sunday, July 15, at UPMC Presbyterian in Oakland. He was 62.

The cause of death was complications from brain surgery following an accident, according to an e-mail message sent by Richard McCullough, dean

of the Mellon College of Science, to members of the campus community.

Brown came to Carnegie Mellon in 1973 as an assistant professor of biological sciences. For the next several decades, he divided his time between teaching undergraduate courses like Modern Biology, mentoring graduate students in his lab, and playing key roles in the development of interdisciplinary initiatives like the Bachelor of Humanities and Arts program, Science and Humanities Scholars program, and the Master of Biotechnology and Management program.

Brown served as acting head of the biological sciences department from 1993 to 1995 and department head from 1995 to 2000. In 2004, he was awarded Carnegie Mellon's Robert Doherty Award, which recognizes faculty members who contribute significantly to the development of educational programs.

"[Brown] had an energy you couldn't even imagine," said Amy Burkert, associate department head for undergraduate affairs

in the department of biological sciences. "He didn't ever see that there wasn't a challenge he couldn't take on."

Brown also extended a hand further beyond the classroom, taking a part in the department's murder mystery dinner, a fixture since 1997, and playing Santa at the annual Christmas party.

"He was involved in whatever we were doing," said Jared Wenger, who graduated in 2006 with a degree in biological sciences and is currently pursuing a Ph.D. in genetics at Stanford University.

Wenger recalled how Brown lent students his own backyard so they could build the BioSAC booth for Carnival, a tradition begun in 2005. He also routinely took students up to his family's cabin in Irwin, Pa.

Former graduate student Christine Wang was one of Brown's advisees on a thesis project that involved using microorganisms in river sediment to clean up contaminants in the water.

"I think he's the best thesis adviser and mentor any student could ask for," Wang said. "He

was always very supportive and allowed students the freedom and luxury to explore."

Brown spent the spring 2007 semester as a visiting professor on the Qatar campus, teaching a hybrid biology course he developed to integrate online multimedia into the traditional classroom lecture setting.

Prior to his accident, Brown had planned to return to Qatar for three years as special assistant to Chuck Thorpe, dean of Carnegie Mellon University in Qatar.

"Bill does live on because he's touched so many people that there are no limits to the impact that he's going to have," Burkert said. "He's taught us a lot of very important lessons, not just about science, but about education and about dealing with people and being a leader and a doer."

Brown is survived by his wife, Linda, and sons Kevin and Eric. Eric is a graduate of Carnegie Mellon's Entertainment Technology Center.

A private funeral was held in Brown's honor on July 20 at Sixth Presbyterian Church in Squirrel Hill. A campus memorial service

# Students have positive effect on city's diversity

DIVERSITY, from A1

University, Chatham University, and Point Park University, all of which host students from different cultures and backgrounds.

The Diversity Advisory Council, started by Cohon in 2000, is the main policy-making body on diversity at Carnegie Mellon. The Council concluded that the university community has come a long way in diversification but that each strength comes with its weaknesses, according to the group's 2006 Annual Report.

The report also stated that over the past 10 years, the number of women in senior staff positions and board of trustees positions has risen 20 and 15 percent, respectively, while the number of female students in the undergraduate population has increased only about 5 percent.

This number may be affected by Carnegie Mellon's focus on the technical and scientific fields, areas of study not typically favored by women.

Over the same 10-year period, the population of Asian-American undergraduate students has remained high at above 20 percent, while the Hispanic and African-American enrollment rates remain low, at about 5 percent each.

Carnegie Mellon's endowment may have something to do with this consistently low minority enrollment.

Its endowment of about \$1 billion is remarkably lower than its peer institutions. The University of Pittsburgh beats out Carnegie Mellon by \$1 billion, while schools in the Ivy League have endowments superior by upwards of \$30 billion.

"No matter what we intend, our financial aid packages to these typically higher-need groups just cannot compare with some of our peer institutions," said Cohon.

Carnegie Mellon also rates

highly in its gay, lesbian, bisexual, and transgender (GLBT) and international populations.

The university was recently named one of the top 100 schools for GLBT students by the *Advocate Guide for GLBT Students*. ALLIES and cmuOUT, two student organizations that promote GLBT advocacy, have gained a significant presence on campus.

Carnegie Mellon's international population, about 26 percent of the overall student body, has led to the development of many ethnically and culturally oriented groups on campus.

Mayur, an Indian organization, has grown to be one of the biggest on campus for both Indian and non-Indian students. Its Diwali celebration, held during Spring Carnival, is one of many events it sponsors for students throughout the year.

"Looking at student organizations as a whole, organizations really started to lay the foundation to have this year be a landmark in their history," said Adi Jain, junior electrical and computer engineering major and former Mayur president.

CMU Fusion, created last year, integrated ethnic and cultural groups and put on a successful two-act show last spring featuring a capella singing, African music, break dancing, and other talents.

Campus Idol, a university-wide talent show and competition, was another cultural showcase last spring that displayed the diversification of our campus community, featuring songs and dances from many of the different cultures represented at Carnegie Mellon.

However, Cohon insists, diversification on campus is an ongoing project.

"Diversity is not all about numbers, but rather the way we behave as a community," Cohon said. "We have not yet reached our ideal state of diversity. However, we are much closer than only 10 years ago."

# Campus mourns loss of ChemE professor Gary Powers



Courtesy of the ChemE department

by **Alexander Dileonardo**  
Staff writer

Gary Powers, a professor of chemical engineering and a member of the Carnegie Mellon faculty since 1974, died of a heart attack on July 23 at his home in Sewickley, Pa. He was 61.

Powers' expertise in process systems engineering and safety

analysis made him a leader in the industry throughout his tenure at Carnegie Mellon. With undergraduate and graduate students in his lab, he created experiments that emphasized aspects of process safety and environmental risk analysis, which prompted many of the students to become entrepreneurs, according to a university press release issued July 26. Powers was also a major player in Carnegie Mellon's Center for Advanced Process Decision-Making.

At the beginning of each semester, Powers would sit with Polaroid photographs of the students in his classes, trying to memorize each name and face, his daughter Becky Musial recalled in an article published by the *Pittsburgh Post-Gazette* on July 27. Musial added that Powers cherished his relationships with faculty and students, and that he encouraged students to work together and form relationships

with each other inside and outside of the classroom.

Powers received a bachelor's degree in chemical engineering from the University of Michigan in 1967. He attended the University of Wisconsin for his Ph.D. in chemical engineering. Powers spent two years at the Massachusetts Institute of Technology as an associate professor before joining the Carnegie Mellon faculty.

Powers was a multiple recipient of the Kun Li Award for excellence, awarded annually to an outstanding chemical engineering professor by that year's graduating senior class. In 2005, he received the Walton-Miller Award from the American Institute of Chemical Engineers for his work in process risk assessment. As a Ph.D. student at the University of Wisconsin, in a joint effort with colleagues, he developed AIDS, a program for the automatic synthesis of process flow sheets using artificial

intelligence techniques. He also co-authored *Process Synthesis*, the first textbook in this subject.

Outside of the classroom, Powers was vice president of Design Sciences, Inc., an engineering firm that provides quantitative risk assessment services to the process industries.

Powers is survived by his wife Susan; his children Ben, Nate, Alex, Katie, Libby, and Becky; five grandchildren; and a brother and sister.

A memorial service in Powers's honor was held on July 28 at Unitarian Universalist Church of the North Hills in Franklin Park.

A campus memorial, organized by the department of chemical engineering, will be held in the fall.

Donations may be sent to the Gary J. Powers Scholarship Fund, c/o Toni McIntrot, Department of Chemical Engineering, Carnegie Mellon University, Pittsburgh, Pa., 15222-5488.



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## Opportunities for students include:

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Technical Opportunities Conference  
Tuesday, September 18

Information Session  
Wednesday, September 19

Resume Drop Deadline  
Wednesday, September 19

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CAMPUS, from A4

Some students in campus housing get to enjoy newly renovated living areas. Two of the houses on the fraternity quad — Pi Kappa Theta and Kappa Delta Rho — were completely gutted and redone. In addition, the Margaret Morrison Apartments underwent extensive renovations including new cabinetry, new bathrooms, and updated wiring and lighting fixtures.

University personnel also renovated the basement of Posner Hall in preparation for the installation of a distance-learning studio. A similar studio will also be constructed inside the university's building at 4616 Henry St. Both studios will incorporate

This summer, Margaret Morrison Carnegie Hall received a new biodiesel generator for use by the Intelligent Workspace on its roof. The building's basement

In addition, the CDFD is working on several long term projects. The Gates Center for Computer Science is the most expensive project, and is slated for completion in 2009. Other large projects include the renovation of the third floor of Hamerschlag Hall and the renovation of Doherty

The largest changes have been to the West Wing cluster, which has been redesigned and is now called the West Wing collaborative cluster. The cluster's interior seating space has been reconfigured. It will now contain a kiosk-like "stop-in" area for quick access to computers

Computing Services has also converted the Apple Orchard in the basement of Hunt Library to a Windows cluster. The Macs have been moved to the cluster in Wean 5201/5203, which will be open 24 hours a day.

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# Researchers study mechanism of HIV infection

by Hanadie Yousef  
Staffwriter

Carnegie Mellon biophysicists Stephanie Tristram-Nagle and John Nagle have uncovered details as to what allows HIV to infect immune T-cells. According to an article published in *Biophysical Journal*, “HIV-1 Fusion Peptide Decreases Bending Energy, Promotes Curved Fusion Intermediates,” data from this research will aid in computer simulations of HIV infection and will help further drug discovery. Enveloped viruses, which develop outer layers from their host cells, infect cells by fusing with the cells’ membranes and inserting their genetic contents into the cells, essentially turning them into virus-producing factories. In order for HIV to infect immune T-cells and deliver its RNA con-

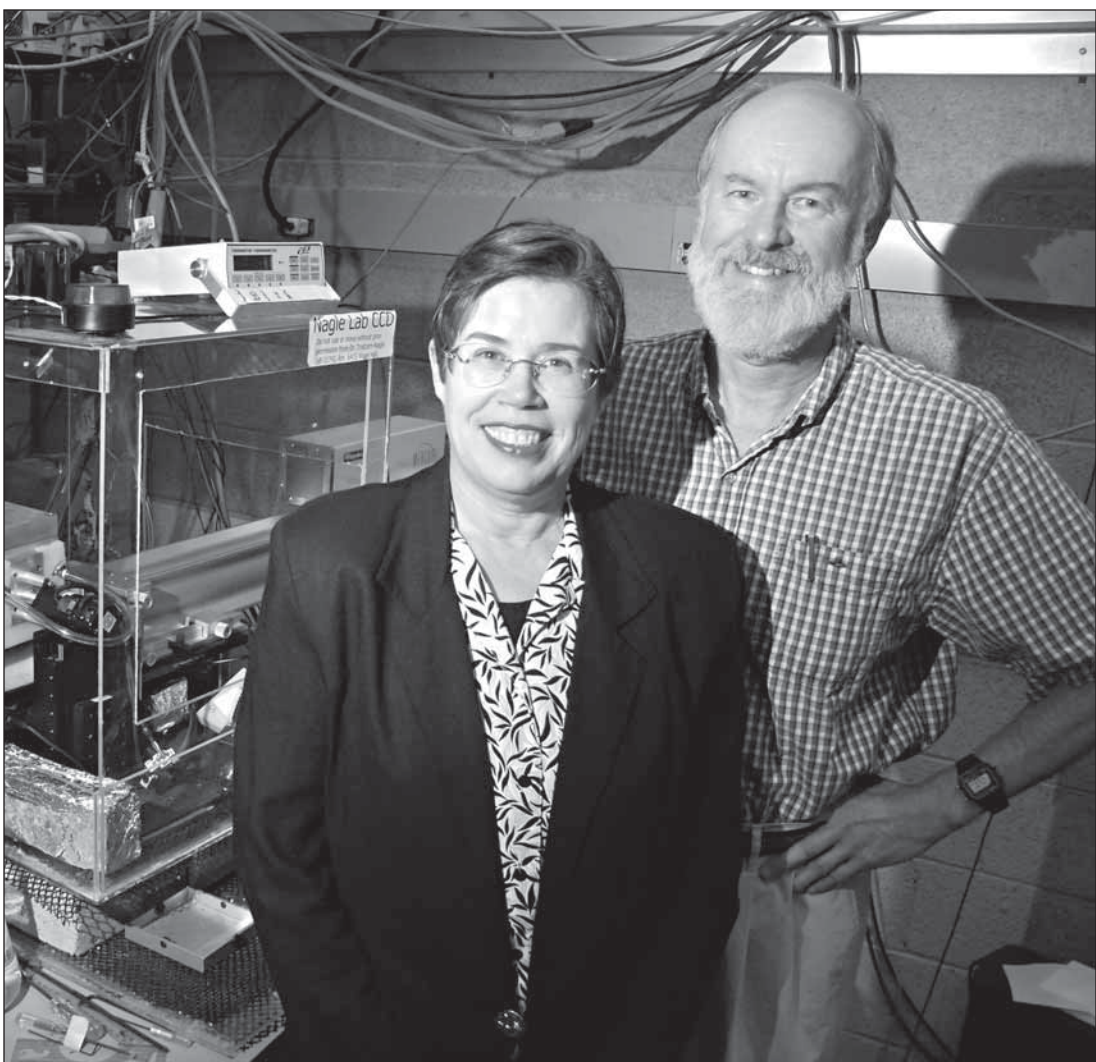
can then undergo fusion with the membrane and infect it. The Nagle lab was able to study the intermediate stage of viral infection of a hydrated lipid bilayer by using novel research techniques and data analysis. “Another method to study viruses and how they infect cells is to look at the protein-membrane interaction via protein crystallography,” said Tristram-Nagle. “This, however, focuses on pre-fusion and post-fusion states of viral infection. Our lab was able to use a novel technique to probe the intermediate fusion state.” Researchers developed a method to validate and perform data analysis on the structure and properties of fully hydrated lipids. This type of analysis was critical in their discovery of how FP-23 interacts with the membrane. “It is important to determine the structure and interactions of fully hydrated, fluid-phase lipid

**Nagle’s lab discovered a short stretch of the gp41 protein that decreases the energy needed to bend a cell membrane, making it easier for the HIV to infect the cell.**

tents, it must fuse its viral envelope with the T-cell membrane. More specifically, HIV lowers the energy barriers of T-cell membranes to curve the membranes and allow a pore to form. The protein gp41, which is located on the viral envelope, enables HIV to penetrate the membrane. According to a Carnegie Mellon press release, the Nagle lab discovered that a short stretch of the gp41 protein, known as fusion peptide 23 (FP-23), decreases the energy needed to bend a cell membrane, making it easier for the HIV to infect the cell. A cell’s lipid membrane is normally highly resistant to bending. Researchers used diffuse X-ray scattering data from Cornell University’s CHESS synchrotron to measure the bending modulus of a lipid bilayer and found that FP-23 causes the bending modulus to decrease. According to the article in *Biophysical Journal*, a smaller bending modulus lessens the free energy barriers that must be overcome to pass through a cell membrane. The HIV particle

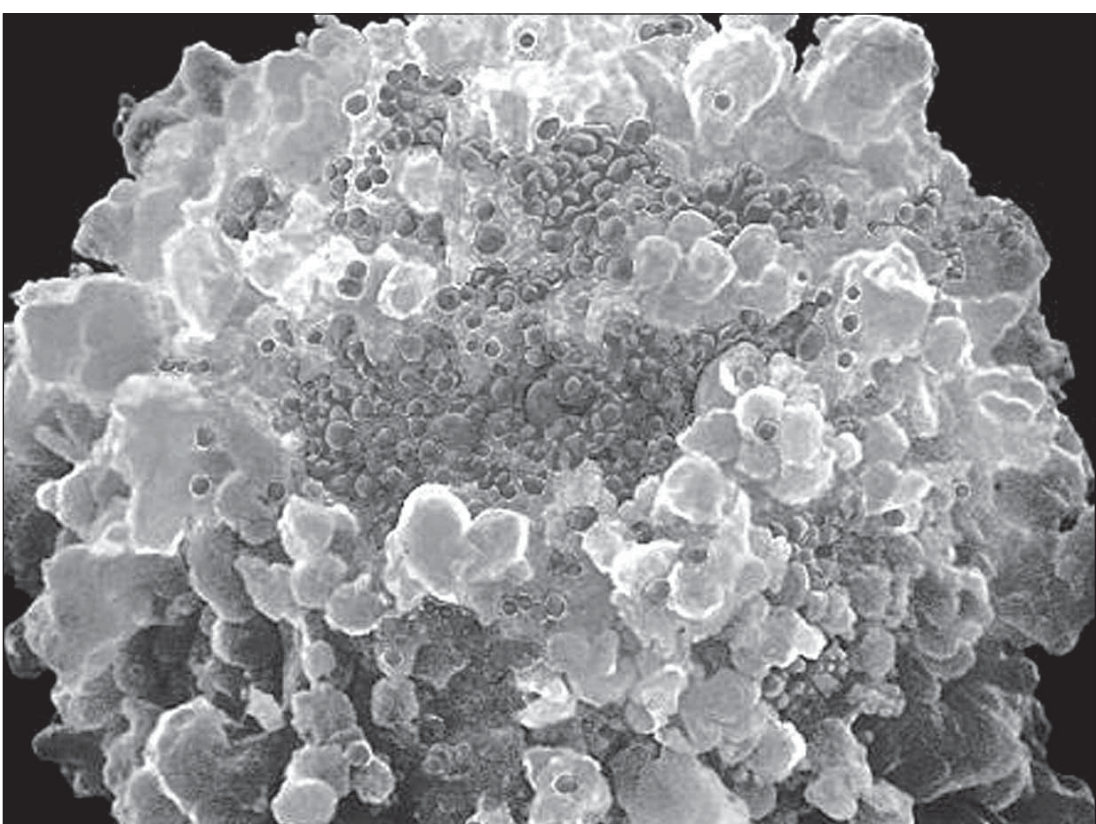
bilayers, because they are the underlying component of all plant and animal cell membranes,” Tristram-Nagle said. “Different lipids have different areas and thicknesses as well as different material properties, and these differences turn out to be essential for membrane protein function.” Researchers pioneered a method of data analysis that involves applying theory from liquid crystal literature to the lipid membrane. The shape of a cellular membrane, represented by the fluid mosaic membrane model, is very similar to that of a liquid crystal. “Our lab pioneered the use of liquid crystal theory to correct the X-ray scattering intensity collected from fully hydrated lipids and determine a structure from this kind of data,” said Tristram-Nagle. “Without the correction, the X-ray data are weakened due to thermal undulations in fully hydrated lipid membranes and the structures are not able to

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J.W. Ramp/Assistant Photo Editor

Above: The Nagle lab developed a novel technique to determine the structure of fully hydrated lipid bilayers. Below: HIV infects a T-cell by lowering the cell’s energy barriers with fusion peptide 23.



Courtesy of Medscape

## SciTechBriefs

### Hackers target *Monster.com*

Last Friday, career website *Monster.com* released the details of a recent attack on the site by hackers. The attack affected more than 1.3 million of the site’s users, most of whom were located in the U.S. The hackers used hijacked personal computers in combination with servers in Ukraine to execute their attack. *Monster* became aware of the attack on Friday, August 17, and was able to shut down the servers in Ukraine four days later. The attack targeted users’ personal information, and *Monster* reported that the hackers retrieved information including names, addresses, phone numbers, and e-mail addresses.

Source: BBC News

### VR induces out-of-body experiences

Scientists are now able to induce out-of-body experiences through the use of virtual reality equipment, according to a new study published in the August 24 edition of *Science*. The feeling of belonging to a body is linked to multiple sensory streams. Under normal circumstances, these streams function harmoniously. Sometimes these sensory streams report conflicting information. In these situations, the brain is forced to make a decision, which may result in an out-of-body experience. In one experiment, subjects viewed projections of their own bodies through virtual-reality goggles. The scientists stroked the subjects’ backs with sticks, so the subjects felt their own backs being stroked while also watching a stick stroke the projection before them. Subjects reported feeling as if they were drifting out of their bodies and into the projected bodies.

Source: *The New York Times*

### Martian soil may have supported life

German scientist Joop Houtkooper found evidence of life on Mars through the analysis of soil brought back from the planet in 1976. Signs in the soil indicate that the subfreezing Martian climate may have once supported microbial life (microorganisms) made of hydrogen peroxide and water. One experiment showed that 0.1 percent of Martian soil may be composed of former microorganisms. Houtkooper said that 0.1 percent is “not a small amount,” and the percentage is similar to the biomass percentages in some Antarctic permafrost. Houtkooper’s conclusions support the theory Earth may have “seeded” life on Mars, or vice versa, when an event such as a meteor crash transported life between the planets.

Source: CNN

### New Jersey teen unlocks iPhone

George Hotz, a first-year at the Rochester Institute of Technology, successfully unlocked an iPhone by using a soldering iron and manipulating the software. He spent approximately 500 hours on the project — his entire summer vacation. The iPhone is normally compatible with only AT&T, and unlocking the phone means lifting the AT&T carrier restriction. With Hotz’s method, the iPhone can work with T-Mobile.

Source: *The Washington Post*

Compiled by  
Sarah Mogin

# How Things Work: Holograms

## Michael M. Whiston

From security emblems to magazine ads, holograms produce vibrant, 3-D images through the diffraction and reflection of light. Depending on the viewer’s line of sight, holograms display different angles or colors of the same image, or different images altogether. There are two types of holograms: reflection and transmission holograms. A reflection hologram produces an image that can be observed in normal light, whereas a transmission hologram produces an image that is observable only with laser light. At the bare minimum, creating a hologram requires a laser, an object, and holographic film. To create a transmission hologram, laser light is shined through a beam splitter — a series of mirrors and prisms. The beam splitter creates two beams of light — the object and reference beams. The object and reference laser beams then each pass through a diverging lens, causing each beam to widen in diameter. After passing through the diverging lens, the object beam reflects off a mirror and onto the object. Once the light meets the object, the intensity (amplitude) of the object beam changes because some of the light is absorbed by the object. The object beam’s angle of reflection off the object is the same as the angle at which it first encountered the object. Because the object’s surface is not perfectly smooth, the light is reflected in many different directions. Unlike the object beam, the reference beam does not reflect off the object. Rather, it travels directly from the diverging lens to the holographic film. Once the object and reference beams reach the film, they interfere with one



David Kjos/Art Editor

another. Interference is the combination of laser beams that results in a new light pattern. Depending on how closely their wave structures overlap, the light can be amplified (constructive interference) or de-amplified (destructive interference). Holographic film is coated with a mixture of silver halide. Once the object and reference beams reach the film, this mixture preserves the phase and amplitude differences between the reference and object light beams. The final step in the creation process is development. During development, higher-intensity regions of light show

up darker in the hologram, while lower-intensity regions of light appear lighter. These differences in light value are called interference fringes. Different amplitudes of light create different levels of contrast between these regions. After development, the hologram is usually bleached to make it transparent, and then it is ready to be viewed. When viewed correctly, the hologram produces a virtual image of the object. To view a transmission hologram, a laser beam is first shined through the front of the hologram, where the interference fringes are located. Some of this light

simply passes through the hologram unaltered, while other light reflects off the film or diffracts through slits. This process of reflection and diffraction produces a light pattern with the same properties as the object beam (before it merged with the reference beam). This light beam forms a virtual image of the object that is located in back of the hologram but in front of the viewer. The hologram can then be embossed by transferring the interference pattern onto plastic and shiny foil. Embossed holograms are commonly seen in ads or on credit cards. Besides being used as eye-catching decorations, holograms have a number of practical applications. In the medical field, experts have combined holography with various medical instruments to produce high-resolution pictures of the body. X-rays, for instance, can be used to take pictures of body parts. An X-ray laser is shot at an X-ray mirror, which is specially made with silicon and molybdenum to reflect the laser beam. The sample is then hit by the laser beam, thereby creating the object beam. Endoscopic holography is used for a similar purpose: to take pictures of cavities within body organs. An endoscope is a device that uses light to see the inside of body organs. The pictures are high-resolution and require no contact with the body organs. Holograms are also used as security emblems. In particular, they are placed on CDs, software, and expensive clothing to validate their legitimacy. If you want to experience holography first-hand, you can purchase a Litiholo Hologram kit from Liti Holographics and try it yourself ([www.litiholo.com](http://www.litiholo.com)). The kit includes a laser, an object, and film, and the creation process takes only minutes.



# Close-up on allergies: Immune system fights foreign particles

by Cecilia Westbrook  
Staffwriter

It's summertime, and for many people with allergies, that means an itchy nose, watery eyes, sneezing, and congestion that aren't problems during other seasons.

An allergy is an abnormal immune system response to a substance that would otherwise be harmless to the body. People can be allergic to almost anything to which the body is exposed, from food and medications to pets and household chemicals.

Hay fever, or seasonal rhinitis, is one of the most common seasonal allergies.

Hayfeverisanallergicresponse to pollen particles in the air. Part of the reason that people with hay fever experience watery eyes and sneezing during the summer is that pollen is more common in the summer air.

Ragweed pollen, for instance, can be found in air samples 2 miles out to sea and 400 feet high in the air, according to the National Institute of Allergy and Infectious Diseases (NIAID).

Also, people can be allergic to many different kinds of pollen, which is why some people suffer seasonal rhinitis at different times of year.

The allergic response occurs when the body's immune system accidentally interprets a harmless substance as a threat to the body. It begins when B cells in the body's immune system encounter a particular substance and respond by creating antibodies against that substance.

Antibodies are large, Y-shaped proteins that can fight infection by recognizing a certain foreign molecule, similarly

to how a lock fits into a key. Once antibodies have been formed for a molecule — now called an antigen — the body can recognize that molecule forever. Antigens that cause allergic responses are called allergens.

The antibodies produced by the B cells move through the blood stream and attach to the surface of two kinds of immune cells: mast cells and basophils. Mast cells are found in connective tissue all over the body, and basophils circulate in the blood stream.

Both types of cells play an important role in the inflammatory response, which is one of the ways the body protects itself against invading pathogens and foreign molecules. Unfortunately, this response can also be triggered during an allergic reaction to a harmless substance.

Mast cells and basophils contain pockets of immune-mediating chemicals, such as histamine, that act in the body to produce an inflammatory response. As soon as the antibodies on these cells recognize the antigen, the cells release these chemicals into the blood stream and surrounding tissue.

Once released, these chemicals cause a person's allergic response, which typically includes a runny nose, itchy eyes and throat, and congestion. Allergic responses can also include hives (itchy red bumps or welts) on the skin, nausea, and vomiting (in food allergies).

In some people, certain antigens can cause severe systemic reactions, including swelling of appendages, sudden drops in blood pressure, and constriction of the airways. This allergic condition is called anaphy-

laxis, or anaphylactic shock. Anaphylaxis is a life-threatening condition and requires immediate medical attention.

There are a number of treatments for allergies. Avoiding the allergen is always the best way to prevent a reaction, but avoidance is not always possible.

In the case of mild reactions, such as hay fever, an antihistamine can be taken. Antihistamines block histamine's ability to cause unpleasant symptoms of allergies.

Over-the-counter antihistamines such as Benadryl can be taken for short-term allergies, such as mosquito bites, but they should not be taken long-term because they can cause drowsiness.

Prescription antihistamines such as Claritin and Allegra, on the other hand, don't cause drowsiness and can be taken for longer time periods.

In addition, people with severe allergies may benefit from immunotherapy. Immunotherapy consists of a series of allergy shots containing dilute concentrations of the allergen, given over a period of time from a few months to a few years. This treatment

desensitizes the body and can cause allergy symptoms to decrease or even disappear.

Incidence of allergic reaction has been increasing all over the world. The American Academy of Allergy, Asthma & Immunology estimates that 40 to 50 million Americans have allergies of some form.

Of particular concern to the health care community has been the steady rise of food allergies, which can be life-threatening. According to a 2006 article in the *Journal of the European Molecular Biology Consortium*, the number of hospital admissions for food allergies has increased 500 percent in the U.K. since 1990.

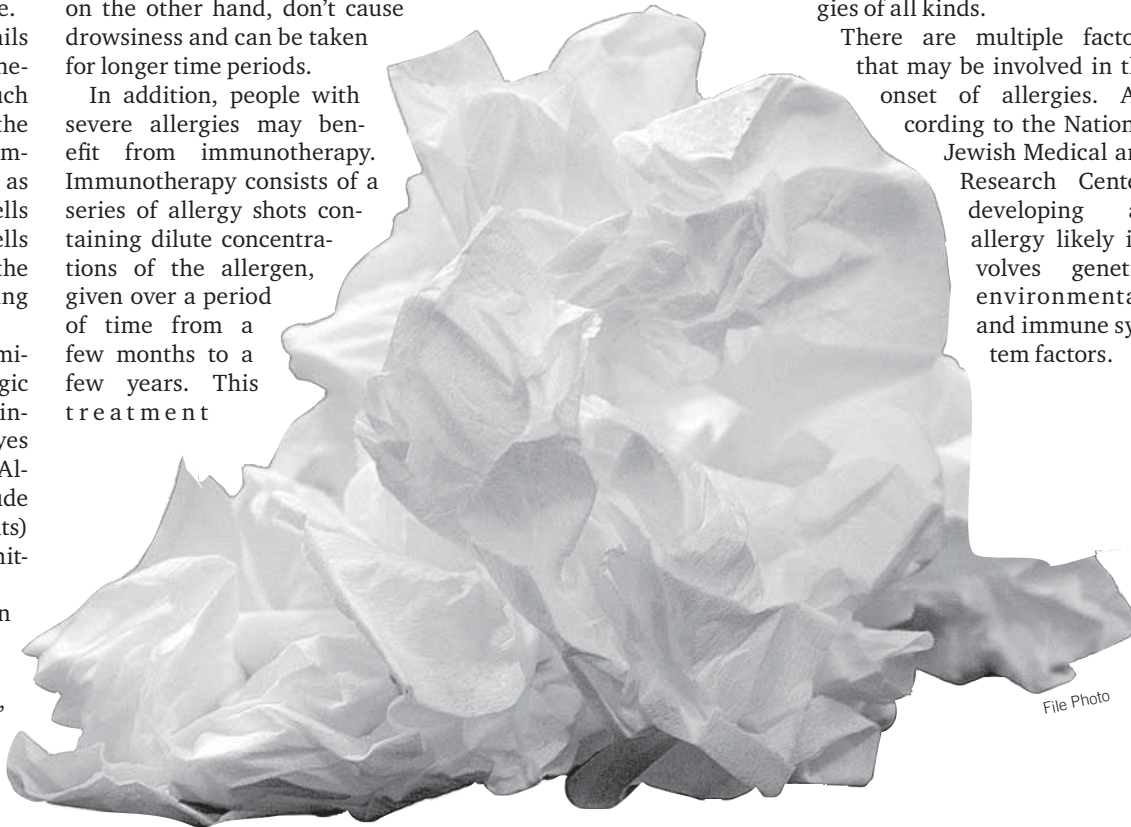
The rise in food allergies seems to be due in part to greater use of certain kinds of allergy-

inducing foods. This is exemplified by increasing use of peanuts by the food industry, which has been correlated with increasing allergy rates.

On the other hand, according to a 2006 article in *The Boston Globe*, a recent study found that peanut allergies are much less prevalent in countries where children are fed a diet heavy in peanuts. This indicates that feeding children peanuts may actually protect them from developing an allergy to them.

In fact, early exposure to an environmental toxin may be a protective factor in many kinds of allergies. For example, according to a recent NIAID-funded research study, children who are exposed to household pets in the first years of life are much less likely to develop allergies of all kinds.

There are multiple factors that may be involved in the onset of allergies. According to the National Jewish Medical and Research Center, developing an allergy likely involves genetic, environmental, and immune system factors.



# HIV targets membrane

INFECTION, from A6

be determined." X-ray scattering data was used to calculate the bending modulus of the membrane and validate its significance.

The preparation of the hydrated lipid samples, known as the rock-and-roll procedure, was also pioneered by Tristram-Nagle. It involves putting hydrated lipids — which are similar to those found in a cell membrane — on silicon wafers, using them, and then hydrating them in a humidity chamber.

Researchers from the Nagle lab said that they will continue to work on how HIV proteins affect the cell membrane. Currently, they are studying the pretransmembrane section of the gp41 protein, an important cholesterol recognition site. The HIV membrane is 80 percent cholesterol, which Tristram-Nagle hypothesizes could be important if the cholesterol is involved in the change of gp41 during HIV infection of the T-cell.

"I have been working with a CMU undergrad for about one year, Alex Greenwood — now a graduate student at Cornell — to characterize interaction of the CRAC motif peptide with lipid/cholesterol mixtures, and this work is nearing completion," she said.

The fusion peptide research was carried out over the course of five years. John Nagle and Stephanie Tristram-Nagle have worked together since 1982. The Nagles won the Avanti Award at the Biophysical Society in 2003 for their novel approach to analyzing X-ray data of hydrated lipids.

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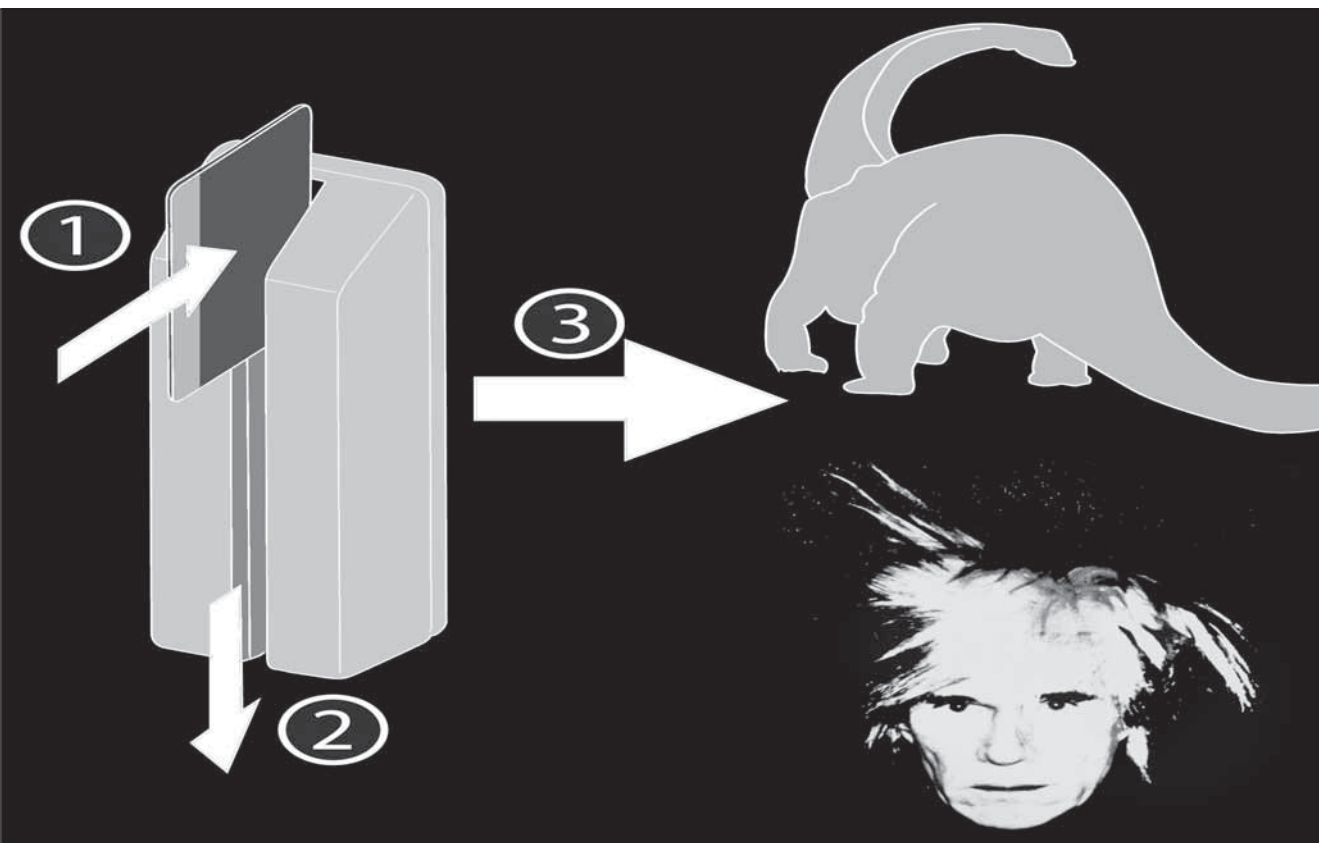
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FromTheEditorialBoard



David Kjos/Art Editor

Student IDs are a free pass to Pittsburgh culture

The *Pittsburgh Post-Gazette* recently reported that the Carnegie Museum of Natural History will raise prices of admission upward of 80 percent when it opens its new dinosaur exhibit, “Dinosaurs in Their Time,” this November. This price increase means visitors will have to shell out an additional five bucks to see the exhibit, touted as the world’s third-largest collection of dinosaur bones in new, more accurate, poses. But don’t pull out your wallets just yet, Carnegie Mellon students. A simple swipe of your university ID card will grant you free access to the collection, along with various other cultural sites.

But all of that means nothing, unless *you* take advantage of the free opportunities. Students should use their ID cards for more than just bus rides to Squirrel Hill and Plaid Ca\$h. If you think you can’t take time from a rigorous academic schedule, take into account that visiting these places is as much of an educational experience as any lecture. Phipps Conservatory, the Mattress Factory, Carnegie Museum of Art — all for zilch, zero, zip dollars. Gallery crawls are held at least once each season, where students and the general public can hop from gallery to gallery downtown — all for the conve-

nient price of zero dollars. Not bad for an all-evening event; you may be surprised at the number of art galleries located downtown. All it takes is a quick hop on a downtown-headed bus (free with your ID, of course). For anyone who thought Pittsburgh was just a smog-filled city where the decomposing skeletons of steel mills loom in the skyline, think again. While the mills may be as aged as the dinosaur fossils in the Carnegie, Pittsburgh has a vibrant array of cultural activities, all at your fingertips. And, at the risk of repeating ourselves, it’s just a swipe of your ID away. Take advantage of it.

Emergency Alert serves campus responsibly

In the last few years, the United States has been rocked by a number of enormous tragedies. Of these tragedies — especially Katrina and the Virginia Tech massacre — many deaths and injuries could have been prevented through better communication. Just days after 32 people were killed at Virginia Tech, the safety of our own students was virtually ignored when a bomb scare on campus property went unannounced to the students. Given that our university is as vulnerable to serious incident as any other university, we are glad the administration has considered the events like the massacre in Virginia, and acted on them. Seven days before the findings of the first official internal report on the shootings at Tech, the Carnegie Mellon Emergency Alert service was announced.

A voluntary program, the Emergency Alert sends an automated voice message to a valid phone number of your choice in the case of urgent news or an emergency situation. Using cell phones to communicate important news to students is popular: the University of Pittsburgh, Duquesne, Slippery Rock, and Indiana University of Pennsylvania — all Pittsburgh- or greater-Pittsburgh-area schools — have enacted similar methods of emergency contact, and over 3400 Carnegie Mellon students have already signed up for the program. Other preventative actions taken on campuses include an instant lockdown of all buildings, which is not on Carnegie Mellon’s agenda. While some may hope for more conservative measures, we’re glad to have the assurance of protection without the big brother feeling.

The university’s emergency plan has been in place for a few years, but Emergency Alert is the first part of the system to actively alert students, instead of just faculty and staff. It’s hard to believe that students — who *are* the university — were left out of the plan for so long, and sad that it took an event like the Virginia Tech massacre to spark change, but great that the university was both quick to learn from it and quick to invoke the appropriate change; perhaps even better is that so many students see the value in the program. The system also seems to be working well — students who signed up for the program were alerted of the bomb threat on Doherty Hall and Mellon Institute this past Friday. We encourage everyone to participate; visit [my.cmu.edu/site/main/page.alert](http://my.cmu.edu/site/main/page.alert).

If you build it, will they come?

With last year’s football team undefeated in regular season play and the men’s soccer bringing home the ECAC South Championship, we can be sure that the lack of attendance at campus sporting events has little to do with team performance. Now that we have won the battle against other college sports teams, we have to start fighting the battle here at home against ingrained routines and general disinterest. Housing and Dining’s answer to this epic problem is the Tartans Pavilion, a new dining facility located between the Gesling Stadium and West Wing and Resnick residence halls. The Pavilion will include a wood-fired pizza oven,

big screen TVs, and glass garage doors — a sort of California Pizza Kitchen meets ESPN Zone meets Coffee Tree Roasters. Now, simply putting a restaurant next to the football field is not going to be a hard and fast solution to our ongoing struggle with apathy. As the old adage goes, you can lead a horse to wood-fired pizza, but you can’t make him take pride in the football team. What the new facility has the potential to do, however, is fill in the most basic piece of the puzzle: getting more students in the stadium during games. The biggest hurdle is convincing students who would not normally be anywhere near Gesling on a Friday night

that it’s a fun, active, and worthwhile place to be. Hopefully, the Pavilion will craft a routine around getting food, watching sports, and having fun. If taking the time to sit in the stands and watch a game is unappealing or just too unfamiliar, perhaps watching the game while also eating dinner and catching up on some reading will feel more like good old Carnegie Mellon multitasking. Once the routine has developed, we might find we have some real grassroots interest in Carnegie Mellon sports on our hands. Maybe then we can give Notre Dame a call and tell them we’re ready to reopen that vintage, 1938 can of whoop-ass.

State law allows students to be paid less than minimum wage

Jessica Thurston  
Jessica Thurston

Minimum wage. It’s the dreaded topic that makes employers’ toes curl, employees’ tempers flare, and labor bureaus’ payrolls soar. We all want to avoid the idea of the dreaded *minimum wage*: Employees want to avoid being paid the least amount possible under law; employers want to avoid dealing with said low-paid, disgruntled employees. But what does it say when employees are paid lower than low — *below* minimum wage? In Pennsylvania, according to the Bureau of Labor Law Compliance’s “Minimum Wage Law Summary,” employees can legally be paid below minimum wage. Well, not just any employees: This exception to the law applies specifically to employees-in-training, employees that work somewhere where there are 10 or less full-time workers, and — that’s right — high school and college students. The employees-in-training rule specifies that the employee-in-training can be paid \$5.85 as long as they are under 20 years of age, and only for the first 60 days of employment. One problem with this rule, however, is that there seems to be no way to check if an employer is actually training an employee for these first 60 days, or whether he or she is just taking advantage of this exception to the law.

weekly activist meetings, and daily track practices, all the while putting himself through school, what happens when he can only find work at a sandwich shop, and gets paid below minimum wage? The absurdity of this rule makes it necessary to point out several of its obvious counterarguments. First, high school and college students, particularly the latter, tend to be smarter and more efficient at tasks associated with retail or eatery work than are most other workers. I realize that an obvious counterargument to this assertion is that students should be working somewhere where their skills may be better utilized, such as secretarial work. The problem with this idea is that most students do not have options outside of more labor-intensive work, such as retail shops or eateries, due to other (often education-related) time constraints. Students can’t work nine-to-five jobs because of classes and other educational commitments. After acknowledging these counterarguments, it seems like the law allowing students to be paid below minimum wage is nothing more than a way for the state to please employers by allowing them to cut costs. As much as it is important for there to be a healthy relationship between the state and its businesses, what about maintaining a healthy relationship between the state and employees? Where does employee satisfaction factor in to the minimum wage law? If employees are told that they are not

If employees are told that they are not worth even minimum wage, why should they stay faithful to the company?

The 10-or-less rule also seems convoluted. Are employers allowed to pay their employees below minimum wage if there are 10 or less full-time workers at the venue because the company is then, in theory, unable to make as great a profit as a larger venue? On the flip side of this exception, if there are fewer workers, couldn’t an employer pay them more money rather than less money? What is truly vile about these exceptions to the Pennsylvania state minimum wage law is the fact that high school and college students — who typically work minimum wage jobs — can legally be paid only 85 percent of the minimum wage. That is, students can legally be paid about \$6.08, which is \$1.07 less than minimum wage. Why is it legitimate for hard-working students, who are often taking on a job in addition to a full-time education, to be cheated out of an entire one-seventh of their deserved hourly rates? Allowing employers to pay college and high school students 85 percent of the set minimum wage essentially just allows the minimum wage to be lowered overall. While Pennsylvania should be commended for raising minimum wage to \$7.15 this past July, enforcing this exception to that law seems to be taking a giant step backwards. This exception assumes that high school and college students are not financially independent and are not supporting themselves. While being financially independent is probably less likely for high school than college students, many college students take out loans in their names to pay tuition, rent and living expenses, or split other college costs with their parents. When a sophomore political science major is busy balancing a full course load,

worth even minimum wage, why should they stay faithful to the company? One worker at Camille’s Sidewalk Café franchise, at the corner of Fifth Avenue and South Craig Street, echoed the rumors that the newly opened venue has a high turnover rate of employees due to low wages. “I’ve only been working here three days and I’ve heard a lot of stories already,” said a junior at the University of Pittsburgh, explaining that several workers had quit after being paid less than \$7 an hour. While this is allowed according to the minimum wage law exceptions, is it ethical? A representative from the Starbucks Customer Relations regional office, when asked if any of the store’s branches pay below minimum wage, responded with a firm “Absolutely not,” explaining that the company always pays at or above minimum wage as part of their competitive compensation package. While I know that this situation is not wholly comparable to a franchise store like Camille’s, the moral is: Starbucks knows that low-paid employees will go elsewhere, and will give the company a bad reputation — which Camille’s is rapidly acquiring. So the moral of the story is just that: maintaining morals. Despite it being legal to pay below minimum wage, doing so is indecent, particularly to college students. Instead, students should be paid at or above minimum wage to increase productivity and employee morale, and, most importantly, to be able to support themselves and their lifestyles. Jessica Thurston ([jthursto@](mailto:jthursto@)) is the assistant editor of *Forum*. She’s a junior BHA student studying professional writing and urban design, with a minor in Hispanic studies.

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# Carnegie Mellon makes the switch to cage-free eggs for on-campus meals

*Michael Croland*

Michael Croland

Conditions for egg-laying chickens and other animals raised in factory farms are hardly reminiscent of “Old MacDonald’s Farm”. Factory-farmed animals are typically confined to tiny spaces in unnatural conditions and subjected to the mutilation of their body parts without any painkillers. While anyone who purchases animal products that come from such industrialized farms should explore more humane eating options, Carnegie Mellon’s Dining Services should be commended for switching to cage-free eggs.

Beginning this semester, Dining is using eggs that don’t come from caged chickens. Only cage-free eggs will be used for both liquid and shell eggs. The move

follows the lead of more than 150 other colleges and universities in the last few years, including Case Western, Tufts, Georgetown, Dartmouth, and Harvard. Supermarket chains Whole Foods and Wild Oats only sell cage-free eggs, and some major companies — including Burger King and Ben & Jerry’s—are working to phase out their use of eggs from chickens in battery cages.

About 95 percent of egg-laying chickens in this country are confined to battery cages, which are stacked on top of each other so that excrement from the birds on top falls on the animals below. Hundreds of thousands of birds may live in one huge, putrid shed. Birds in battery cages are not able to nest, dust-bathe, or carry out any other natural behaviors. Instead, between five and 11 chickens are stuffed inside cages so tiny that a sole bird wouldn’t

be able to spread her wings, even if she were alone. Battery cages have been banned in numerous European countries and will be phased out in the European Union by 2012.

As cruel as battery cages are, the egg industry has other dirty secrets too. Baby chicks typically have their sensitive beaks seared off so that they won’t peck each other to death under stressful conditions. Chickens are often starved for a period of seven to 14 days in order to induce an extra egg-laying cycle. These practices aren’t humane, but for birds, it is better to be subjected to them and not live in battery cages than endure all of the above.

“It takes a chicken living in battery cage conditions about 24 hours to produce just one egg. Supermarket eggs cost about a dime each,” stated author Erik Marcus in his book *Vegan: The New Eth-*

*ics of Eating*. “There is no scale with which to compare 24 hours of animal suffering and 10 cents ... other than the scale of human conscience.”

It’s up to individuals to question whether it’s worth 24 hours of all that suffering just for a single egg. At an institutional level, since Dining Services isn’t about to stop using eggs, it’s wonderful that Carnegie Mellon and many other schools and companies are saying “No!” to battery cages.

Dining’s decision to switch to cage-free eggs didn’t come out of left field. Students and activists have urged Dining to switch to cage-free eggs for about four years. An organization named Student Animal Liberation Activists (SALA) formed in 2003 to persuade Dining to work with suppliers that adhere to an animal welfare auditing program, with a primary focus on the conditions

of egg-laying chickens. SALA disbanded when its founding president, Eric Jonas, left Carnegie Mellon in 2004. Sustainable Students’s efforts to promote local, organic, and humanely produced food have included a partial focus on eggs as well.

“It is encouraging to see Carnegie Mellon take this crucial, compassionate step toward recognizing that animals deserve our respect and consideration,” says Jonas. “While the best way to help animals is to stop supporting the egg industry, which egregiously abuses animals in so many ways, it is comforting to know that Carnegie Mellon has at least stopped supporting one of the myriad abuses facing farmed animals.”

It’s important to consider the origins of food before it winds up on our plates. Production standards that don’t live up to one’s

own values of animal welfare and other issues simply should not be supported. Carnegie Mellon students, faculty, and staff can rest easy knowing that their campus egg consumption doesn’t contribute to the worst animal abuse. Nevertheless, this news should serve as a wake-up call about consuming animal products.

The best way to stop supporting cruelty to animals raised for food is by not consuming animal products. Thanks to Dining’s other innovations this semester—new vegetarian and vegan options at Skibo and an all-vegetarian eatery called Evgefstos — eating healthy and humane plant-based foods at Carnegie Mellon has never been easier.

*Michael Croland (H&SS ’05) runs a blog about Judaism and animal protection issues at heebnvegan.blogspot.com.*

# Locked in the bedroom: Miscommunication with Housing and Dining

*Rachael Clemmons*

Rachael Clemmons

Usually, I find it unnecessary to launch complaints against the system — the system that provides my housing while I attempt an education that will hopefully launch a successful career (which will, in turn, pay off my student loans for housing and education). However, launching complaints against the system became necessary after I had to climb out my bedroom window in order to leave my room.

My awkward encounter with the construction men who wondered which window I had climbed from wasn’t the first issue I have had with Housing and Dining Services. Not that there have been many — they employ me, which I greatly appreciate. Still, the first major problem occurred last semester with a representative of Housing services. He shall remain nameless, yet it is important to know that his job was to *settle* issues within the dormitory: in my case, a quickly intensifying feud between my roommate and I. Instead he exacerbated the problems, and my general cynicism, when he decided to scream and yell at me. Although his level of disrespect intrigued me, as I was convinced he wanted me to report his behavior to a higher authority, I decided to let the situation be, since finals and the like were quickly approaching.

Since my second negative experience with Housing was much more tragic, I’ve decided to take action.

On August 14, 2007, I was locked *into* my room. My door was jammed and I was unable to get out. Despite the fact that my bladder was bursting, and my nose was bleeding, I didn’t get out of my room until 11:30 a.m. — when I decided to take action and climb out of my window that might serve as a fire escape. This



Michael Menchaca/Art Staff

course of action was necessary even though I called University Police at 9:30 a.m., and Housing at 9:45 a.m., and they had both assured me that they were on their way.

Well, University Police didn’t exactly manage to break down my door, because they never showed up. I had called Housing twice — the first time to introduce them to my unlikely problem, and the second time to introduce them to the necessity of immediate action to resolve my unlikely problem. I was assured the first time that a

representative from maintenance was on his or her way, and the second time that the representative had already left and would be arriving very minute. I am still waiting for that representative, two weeks later.

Naturally, I was frustrated. If Housing were free, I wouldn’t feel the need to complain. Since Housing isn’t free, I personally don’t think that maintaining doors is too much to ask.

Well, the staff at Housing noticed I was irritated with the situation, and furthermore, that I

had had to go to such extremes as climbing out my window. I wanted someone to explain why no one had come to my apartment, why I had waited two hours (to no avail), and why I had to sacrifice my pride and my bladder.

A representative from Housing and Dining’s explanation, on the behalf of the maintenance employee: “He said he knocked on your door.”

For those students unfamiliar with the floor plans of Margaret Morrison Apartments, there is a main door that opens into a liv-

ing area and a kitchen, and, in my apartment, the bedrooms are downstairs. So naturally, I asked her what door he knocked on, to which she responded, “I don’t know, I don’t know the layout of Maggie Mo.”

There was silence on my behalf. Where is the communication?! I wouldn’t expect all Housing staff to know the layout of all dorms and apartments, that would be ridiculous. But, as the Housing representative was alternately speaking to the mystery maintenance man on the

phone, and me standing in front of her, I found it suspicious that she couldn’t ask him which door. Thus, I was led to believe, since my question was never answered, that if he did come, he came to the front door. And that would be another instance of a lack of communication. When I called Housing, I relayed that I lived in Margaret Morrison Apartments, and that I was stuck *inside* of my bedroom. My message may have been lost in translation, because the only door he could feasibly have knocked on without me hearing would have been the front door. And, surely, I wouldn’t have been able to open the front door when I was stuck inside of my bedroom.

Despite the questions I asked, I received no answers or reassurance that I wouldn’t be stuck inside of my room again. The mystery maintenance man promised to come to my apartment later that day to fix the door. I assume that he eventually made an appearance, because my door isn’t stuck anymore.

I don’t blame the individuals that work for Housing, but instead the system, or lack thereof, for relaying messages. Housing should learn to communicate better with students, the college, and within its own departments. The campus community, as a whole, should emphasize the significance of communication. Housing must not have cared that I was stuck in my apartment, nor did University Police — that much is clear by the responses I didn’t receive. Their lackluster efforts make me wonder what other messages are lost or jumbled along the way to students and back.

The most tragic part? Well, there was my recycling bin, and the fact that my bladder was no longer pulsating by the time I scrambled out.

*Rachael Clemmons (rclemmon@) really hopes that she still has a job when this article comes out.*

Today marks the first day of the fall semester. So we asked,

## What are your most essential school supplies?



**Amritha Prasad**  
Sophomore  
Information systems

“My lucky Pittsburgh pen from the airport.”



**Vidhi Luthra**  
First-year  
Business

“My laptop.”



**Rachit Srivastava**  
Graduate student  
Computational finance

“Cereal bars. Breakfast.”



**Christine Peters**  
First-year  
H&SS

“My Zune.”



**Tim Ruff**  
Sophomore  
Voice

“Freshmen ... and pencils.”

# A PERSON’S OPINION

Compiled by J.W. Ramp and Andrew Peters



SPORTS COMMENTARY

# MLB outcome predicted

Sam Kim

With only a month left in Major League Baseball's regular season, the playoff buzz has begun, and while the division and wildcard races are still very crowded, I am here to offer my bold predictions as to who will make the cut when October arrives.

In the American League East, the Red Sox will hold off the surging Yankees to win their first division title since 1995. The Red Sox have the best rotation and bullpen in the division with an American League-best ERA of 3.73 as of Sunday. Ace Josh Beckett and veteran Tim Lincecum lead the American

League with 16 wins. The recent addition of Eric Gagne has temporarily hurt the Red Sox bullpen, but closer Jonathan Papelbon and setup man Hideki Okajima strengthen the very deep bullpen.

The Yankees may not win the division, but they will make the postseason once again as the wildcard team. The recent addition of pitching prospect Joba Chamberlain has stabilized a shaky bullpen this year, and the Yankees are nearly first in every offensive category in the league, including batting average, home runs, RBIs, runs, and hits.

In the AL Central, the Detroit Tigers currently trail the Cleveland Indians, but they will still win the division with their strong offense and improving bullpen. Led by MVP candidate Magglio Ordonez, the Tigers have the second-best offense only behind the Yankees. The return of flamethrower Joel Zumaya from the disabled list will stabilize what was considered the best preseason bullpen. The Indians possess two potential Cy Young winners, Fausto Carmona and C.C. Sabathia, but their offense continues to struggle. Their offense has scored three runs or fewer in nearly 50 games this season. If the Indians do not start scoring, they will be out of playoff contention soon.

The Seattle Mariners will surprise the Los Angeles Angels of Anaheim to win the AL West. The Angels' failure to make a big trade-deadline move for a hitter will hurt them considerably. Especially with the loss of Juan Rivera, the Angels do not have much protection for cleanup hitter Vladimir Guerrero. Garret Anderson continues to put up mediocre numbers while catching combination Jeff Mathis and Ryan Budde has barely hit .200 in the bottom of the lineup.

In addition to their strong offense, the Mariners are one

of the best teams in one-run games, going 21-17. Their bullpen, among the best in the league, will finally help bring them back to the playoffs.

Even with all their rotation struggles, the New York Mets continue to lead the National League East. With Jose Reyes and Castillo at the top of the lineup, the Mets' offense can attack and score early in any game. Starting pitchers John Maine and Orlando Hernandez continue to pitch well, and the return of ace Pedro Martinez may be the biggest acquisition down the stretch.

The Mets will win this division, but the Philadelphia Phillies will finally make the playoffs by winning a crowded wildcard race. Even after the injury troubles, the Phillies are only a game behind in the wildcard race. Their NL-best offense will be further strengthened by the return of Chase Utley, who was on the disabled list with a broken hand.

The NL Central is the weakest division in baseball but perhaps the most exciting one. The defending champions, the St. Louis Cardinals, got off to a brutal start, but they are suddenly only a few games behind the Milwaukee Brewers and Chicago Cubs. Although the Cubs have a potent lineup, the Brewers will edge out to win the division.

The Brewers have arguably the best closer, Francisco Cordero, in the division and are expecting the return of ace Ben Sheets. With Chris Capuano struggling without a win since May 5, Sheets may be the deciding factor in an extremely tight race.

Led by NL home run leader Prince Fielder and potential rookie of the year Ryan Braun, the Brew Crew is fighting for more than the division title; it is fighting for its first playoff appearance since 1982.

Without a doubt, the Arizona Diamondbacks are the best in the West. The D'backs have the best record in the National League since the All-Star break. Last year's Cy Young winner, Brandon Webb, continues to be unstoppable of late with 42 straight scoreless innings for the D'backs. Although the Padres have playoff experience, the D'backs have played well against them head-to-head, going 7-4.

At least 15 teams have a shot at making the playoffs this year, but I predict that solid pitching will lead both the Red Sox and Diamondbacks to the World Series. In the end, the Red Sox come out on top and win the World Series in five games, with home field advantage at Fenway Park.

Team roster size is a seven-player minimum and 13-player maximum. There will be a mandatory rules meeting at 4:30 p.m. on Thursday, September 6, in the Arena Room in Skibo Gym. All teams must have a representative at this meeting.

Volleyball — The matches are played Monday to Thursday nights from 6:30 to 10:30 p.m. in Weigand Gymnasium. Roster size is a seven-player minimum and a 14-player maximum.

Tennis — Matches are played on the courts by the UC on Monday through Thursday nights from 7 to 11 p.m. The matches consist of two singles and one doubles match. Those playing singles cannot play in the doubles. Roster size is a minimum of four and a maximum of eight.

Co-Rec Badminton — Matches are played at Skibo Gym on Monday through Thursday nights. Teams consist of one male and one female.

Rosters can be submitted in person to the IM Office or electronically. All e-mail rosters are due 24 hours prior to stated due dates.



J.W. Ramp/Assistant Photo Editor

## Varsity football scrimmages in a preseason game

Football and most other fall varsity sports teams open up their regular seasons this weekend. Check out the varsity schedule below for game times.

# Fall varsity sports schedule

	Date	Opponent	Time
Football	Sept. 1	University of Rochester	12 p.m.
	Sept. 8	GROVE CITY COLLEGE	1 p.m.
	Sept. 15	Hobart College	1 p.m.
	Sept. 22	ALLEGHENY COLLEGE	7 p.m.
	Oct. 6	Randolph-Macon College	1 p.m.
	Oct. 13	CASE WESTERN RESERVE UNIVERSITY*	12 p.m.
	Oct. 20	University of Chicago*	1 p.m. CT
	Oct. 27	WASHINGTON (MO.) UNIVERSITY*	12:30 p.m.
	Nov. 3	Bethany College	1 p.m.
	Nov. 10	WASHINGTON & LEE UNIVERSITY	1 p.m.
Volleyball	Aug. 31–Sept. 1	Ohio Northern University Tournament	3 p.m./9 a.m.
	Sept. 5	St. Vincent College	7 p.m.
	Sept. 7–8	College of Wooster Tournament	5:30 p.m./10 a.m.
	Sept. 12	POINT PARK UNIVERSITY	7 p.m.
	Sept. 21–22	CARNEGIE MELLON CROSSOVER	6 p.m./12 p.m.
	Sept. 29–30	UAA Round Robin #1*	12:30 p.m./9 a.m.
	Oct. 5–6	CARNEGIE MELLON INVITATIONAL	6:30 p.m./11 a.m.
	Oct. 13–14	UAA Round Robin #2*	10 a.m./9 a.m.
	Oct. 17	LA ROCHE COLLEGE	7 p.m.
	Oct. 19–20	Juniata College Tournament	4 p.m./11 a.m.
Men's Soccer	Oct. 26–27	Wittenberg University Tournament	6 p.m./11 a.m.
	Nov. 2–3	UAA Championships*	TBA
	Sept. 5	Washington & Jefferson College	5 p.m.
	Sept. 8	WESTMINSTER COLLEGE	7 p.m.
	Sept. 15	Juniata College	1 p.m.
	Sept. 19	PENN STATE ALTOONA	7:30 p.m.
	Sept. 22	MOUNT UNION COLLEGE	12 p.m.
	Sept. 25	GROVE CITY COLLEGE	7:30 p.m.
	Sept. 29	Washington (Mo.) University*	7 p.m. CT
	Oct. 6	UNIVERSITY OF CHICAGO*	11 a.m.
Women's Soccer	Oct. 9	LA ROCHE COLLEGE	7:30 p.m.
	Oct. 12	University of Rochester*	5 p.m.
	Oct. 14	Case Western Reserve University*	1 p.m.
	Oct. 19	St. Vincent College	4 p.m.
	Oct. 22	POINT PARK UNIVERSITY	7:30 p.m.
	Oct. 26	NEW YORK UNIVERSITY*	5 p.m.
	Oct. 28	BRANDEIS UNIVERSITY*	11 a.m.
	Nov. 3	Emory University*	11 a.m.
	Sept. 1–2	Johns Hopkins University Tournament	2:30 p.m./1 p.m.
	Sept. 8–9	Otterbein College Tournament	12 p.m./1 p.m.
Cross Country	Sept. 14	COLLEGE OF WOOSTER	7:30 p.m.
	Sept. 17	PENN STATE BEHREND	7:30 p.m.
	Sept. 22	DENISON UNIVERSITY	2:30 p.m.
	Sept. 26	Washington & Jefferson College	7:30 p.m.
	Sept. 30	Washington (Mo.) University*	12 p.m. CT
	Oct. 3	ALLEGHENY COLLEGE	7:30 p.m.
	Oct. 6	UNIVERSITY OF CHICAGO*	1:30 p.m.
	Oct. 12	University of Rochester*	7:30 p.m.
	Oct. 14	Case Western Reserve University*	2:30 p.m.
	Oct. 26	NEW YORK UNIVERSITY*	7:30 p.m.
Men's Tennis	Oct. 28	BRANDEIS UNIVERSITY*	1:30 p.m.
	Nov. 3	Emory University*	1:30 p.m.
	Sept. 1	Duquesne University Duals	TBA
	Sept. 15	Indiana University of Pennsylvania Invitational	TBA
	Sept. 22	St. Vincent College Invitational	TBA
	Sept. 28	Paul Short Invitational	TBA
	Oct. 13	CARNEGIE MELLON INVITATIONAL	TBA
	Oct. 27	UAA Championships*	TBA
	Nov. 10	NCAA Regionals	TBA
	Nov. 17	NCAA Nationals	TBA
Women's Tennis	Sept. 14	ROBERT MORRIS UNIVERSITY	2:15 p.m.
	Sept. 14	DUQUESNE UNIVERSITY	5:30 p.m.
	Sept. 15	Allegheny College Invitational	10:30 a.m.
	Sept. 29–Oct. 1	ITA Regional Tournament	TBA
	Oct. 11–14	ITA National Championships	TBA
	Sept. 8–9	CARNEGIE MELLON INVITATIONAL	12 p.m./9 a.m.
	Sept. 22–24	ITA Regional Tournament	TBA
	Oct. 2	CALIFORNIA UNIVERSITY	TBA
	Oct. 6	GROVE CITY COLLEGE	9 a.m.
	Oct. 7	WASHINGTON & LEE UNIVERSITY	10 a.m.
Golf	Oct. 11–14	ITA National Championships	TBA
	Sept. 18	Ohio Wesleyan University Invitational	8 a.m.
	Oct. 1	Westminster College Fall Invitational	12 p.m.
	Oct. 14–15	ECAC Southwest Championships	12 p.m.
HOME EVENTS IN ALL CAPS			
*University Athletic Association contest			

# Ongoing changes to athletics

by Doug Fricker  
Senior Sports Staff

As another sports season begins at Carnegie Mellon, students will notice many changes in Tartan athletics. Over the spring and summer, Athletics Director Susan Bassett initiated these changes in an attempt to continue and enhance the Tartans' successes.

These changes include upgrades to the sites of these athletic competitions as well as fresh faces within the athletics department.

Last summer's major changes within athletics were FieldTurf on Gesling Stadium and a varsity athletic weight room. The Carnegie Mellon football team has never lost playing on the new silica sand and cryogenic rubber FieldTurf; going 6-0 in 2006. More changes occurred this summer and the results are impressive.

The old track was taken out and resurfaced, and a new scoreboard sits nicely where the old scoreboard once was. The IM fields continue to be upgraded, and a Tartans Pavilion is being constructed on the southern edge of the stadium.

The Tartans Pavilion will be a 4100 square foot, glass-enclosed eatery, which will open up toward the turf. When the pavilion is completed this fall, students will be able to sit and eat pizza while watching a football game.

Skibo Gymnasium also underwent some renovations this summer. The historic gym, built in 1924, will host the volleyball team this fall and then the men's and women's basketball teams in the winter.

Carnegie Mellon also welcomed two fresh faces to athletics. In late April, Matthew Kinney was hired as the new head men's and women's swimming coach. Over the summer, the women's soccer program hired Betsy Warren as a full-time assistant coach. Warren replaced Tony Mohammed, who took a head-coaching job at Wellesley College.

Kinney was the head men's and women's swimming coach at the University of Mary Washington in Fredericksburg, Va. for 12 years before taking this Carnegie Mellon position.

During his stint at Mary Washington, he led the men's and women's teams to a combined dual record of 182-59, with 22 combined Capital Athletic Conference (CAC) titles. He has coached 88 All-American performances and was named CAC Coach of the Year 12 times (seven times as women's coach and five as men's).

Kinney graduated from Kenyon College in 1993 and is a native of Canton, Ohio. At Kenyon he was a three-time All-American for the Lords.

Named captain his senior season, he was also a part of three NCAA Division III National Championship teams.

While obtaining his master's degree, Kinney served as an assistant coach at Western Illinois University. He has also coached at the Macomb (Ill.) Senior High School and at the Macomb County YMCA.

Warren served as an assistant coach at Ashland University for the past three seasons, and before that served as an assistant at Bryn Mawr School for Girls, Dundalk Senior High School in Maryland, and also Pulaski County High School in Virginia.

Warren was a three-year starter in college at Radford University and enjoyed tremendous success. She was named captain her senior season, and she helped the Highlanders win the Big South Conference tournament and regular season titles. Radford also earned a bid to the NCAA Division I tournament during her playing days.

Last year, the men's swimming and diving team placed third at UAAs and the women's team took home fourth place. The women's soccer team finished last season with a record of 8-7-1 and a sixth-place finish in the UAA.

# IM NEWS

## Administration

Director: Mike Mastroianni, x8-2214 or [mma8@](mailto:mma8@)  
Assistant Director: Mike Grzywinski, x8-2214 or [immike@](mailto:immike@)  
Secretary: Amy Kiryk, [kiryk@](mailto:kiryk@)  
Student President: Akil Simon, [asimon@](mailto:asimon@)

## Important Dates

Thursday, September 6 — Rosters due for flag football, volleyball, tennis, and co-rec badminton in the IM Office by 4:30 p.m.

Thursday, September 6 — Mandatory rules meeting for flag football at 4:30 p.m. in the Arena Room.

## Upcoming Events

Flag Football — Games are played with six players per side. The games are played Monday through Thursday from 4:30 to 11 p.m. and on Sundays from 12 to 5 p.m. on both the intramural and stadium fields.



**pillbox**

# IN YOUR ELEMENT

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# Get your cheap on

## Dorm decor for the desperately drained

Can't afford any Picassos to adorn your dorm room? Can't even afford the \$9.99 shipping and handling for that 1 cent Picasso print being auctioned off on eBay? Don't fret — you can keep yourself out of white cinder block hell without breaking the bank. Try a few of the ideas below.

**Make a postcard wall.** Get all your friends to send you postcards from their hometowns or vacation spots and create a globe-trotting display.

**Get festive.** Raid Target after Christmas to get ridiculously cheap lights and wacky ornaments that will look totally sweet year-round.

**Raid the toy box.** Poke around in the attic the next time you're home and pick out some of your most awesome toys or childhood art. Why not let Spiderman hold one of your favorite photos, or else line a shelf with trolls?

**Go for a theme.** If you and your roommate can agree on one thing you like — the beach, Paris, robots, vampires — why not go for a theme decoration? If you're both into the beach, find some shells, invest in a couple leis and fake palm tree posters from the party store, and go wild.

**Hit up the color printer.** Instead of buying posters of your favorite paintings, print a couple out in a cluster near you (CFA or the fourth floor of Hunt Library).

**Make a collage.** Rescue some magazines and newspapers from the recycling bin, cut out anything that looks cool, and glue it down. Make a whole collection of eyes to put near the fridge to make sure your roomie doesn't steal your milk, or put Bush's head on Britney's body. Or, make some angst-filled poetry cut from newspaper headlines. (*Post-Gazettes*, of course, not *Tartans*.)

**Make your own paper cutout wall art.** Get your Matisse on. Invest in a pack of construction paper and cut out some shapes, then slap them on the wall with a little Scotch tape. Cover your walls with flowers, cityscapes, stormtroopers — whatever tickles your fancy.

**Frame things that aren't paintings.** Save old scraps of fabric and wrapping paper, then just grab a couple frames from Goodwill, and *voilà!* Instant art.

**Light it up.** A colorful lantern or two will cut right through life-sucking fluorescent lights. You can find some at thrift stores or at Target, and if the lanterns you find aren't colorful enough, help them out by gluing on cut paper, pressed leaves, or pictures from magazines.

**Art: D.I.Y.** Look for old canvasses at yard sales before the weather gets cold and buy a couple tubes of paint from the art store. You don't have to be an artistic genius — just swirl a couple colors you like together and you'll have something nice to look at.

**Make a paper chain.** Cut up some colorful paper and tape each strip into a ring. If you're feeling symbolic you can even write some kind of message on each link of the chain. Or, make one ring for each school day in the semester and rip one off each day. Hang your completed chain around your window or bed.

**Read the funnies.** Cut out all your favorite comic strips and make a funny wall to cheer you up during those long nights when it's just you and biochem.

Now, go forth and be creative!

**Selena Beckman-Harned** | Staffwriter



Jennifer Kennedy | Art Staff

# Everything you need to know

About dating and dirty dishes

**Dear Myrtle,**

**What do you think about online dating? I tried finding girls in real life, but it just didn't pan out. It's all so much easier online, and you can learn if somebody would be compatible with you before meeting them. What do you say?**

**— Online Dating Devotee**

**Hey there ODD—**

I've done some online dating in my time (have you tried *okcupid.com*?) and it definitely has its pluses and minuses. Sure, it seems like you can get some idea of your compatibility before meeting the person, but that doesn't mean it'll turn out the way you think. You might have a lot in common with somebody who turns out to be an ultra-weird eyebrow-fetishist Scientologist (unless you're into that, in which case, woohoo for you) or somebody who turns out to be a 500-pound middle-aged guy named Larry, instead of a 19-year-old blonde. Besides, there's always the chance that your blind date will kill you — always take your first dates to well-lit, crowded places and/or take along a burly friend. That being said, online dating can be a great way to build up your confidence, *and* you might actually meet somebody great. So, I would say keep it up if you're careful, but I advise joining a new club, taking up a new sport, or volunteering somewhere; trying something new is a great way to meet new people, not to mention a great way to learn about yourself.

**— Myrtle**

**Dear Myrtle,**

**I live off campus, and my roommates are sweet and all, but they seem to be incapable of washing dishes. The sink is always crammed full, attracting flies and stinking like hell. I can't even get in the sink to do *my* dishes. When my roommates' dishes are all dirty, they use mine! And, Myrtle, we even have a dishwasher! I've talked to them about it; and when I do, they get better for a couple of days, but then the sink is full again. What do I do?**

**— Frustrated in Squirrel Hill**

**My poor FISH,**

Been there, man. One of the problems with living off campus is that you don't have an RA to mediate tough problems for you. It's time to call a house meeting and explain clearly what your problem is, why it bothers you, and what you would like them to do; but don't dictate — discuss. Try to tell them what's wrong by explaining how it inconveniences you — flies, hard to do your own dishes, etc. — rather than calling them the disgusting, disrespectful slobs they are. Make it clear that you would prefer them not to use your dishes without asking; focus on yourself and what you need. If that still doesn't work, or if tempers run high, you could try bringing in an unbiased party (a friend of a friend, perhaps) to help mediate. As a last resort, you could get a crate and stack the dirty dishes outside, where the flies can feast as they please and the sink will be clean. Good luck!

**— Myrtle**

Need advice? Send queries to [advice@thetartan.org](mailto:advice@thetartan.org).



# Tales of the *Infinite Absolute*

## Art professor plants *Seeds*, sends waves into space

You are holding two small metallic eggs, one in each hand. One is in your left, one is in your right. They are curious objects, as you are unable to determine whether they occurred naturally or were created by mankind. To you, they feel powerful. Now you place them to rest, one at the top of the Taygetos Mountains, the other you let slide from your fingers into the sea.

While this may sound like a fantasy-imbued dream, it is the culmination of 30 years of work by Carnegie Mellon art professor Lowry Burgess. As the sixth piece of Burgess's *Quiet Axis* project, *Seeds of the Infinite Absolute* seeks to display and try to understand the power of infinities.

Over the past 30 years, Burgess has planned and then collected the elements that compose the seeds, his two metallic eggs. Each is purified from the emotional and physical substances that define our reality, including the blood of artists, sap from 44 types of trees, and crushed vermillion, the last of which was placed in a room where 60 pairs of people exchanged telepathic plans for the future. These elements were chosen to represent a distillation of our reality into a purer form. Burgess explained, for example, "with 52 flowers, which were collected from all over the

world... there is one blooming for each week of the year, an ever-blooming flower, a flower of flowers."

Many of the materials that have been distilled were collected by Burgess himself, such as samples from rivers including the Nile, Tigris, Euphrates, Ganges, Mississippi, and the Murray in Australia. The collection and method become part of the experience, a ritual for understanding our position between opposing infinities.

Both seeds have now been placed: The seed at the bottom of the Mediterranean will be sucked into the Calypso Deep, where the African continental plate dives beneath the Eurasian plate, and where the seeds will eventually be crushed; and the seed in the mountains will slowly erode. They were placed there, each pulling at the other so that, as Burgess describes, "between these two infinities, the one of crushing pressure, and the one of release, is most of our reality."

With the completion of Burgess's work on *Seeds*, he will focus on deep space. In 1989, Burgess was the first artist to have his work taken into space as an official payload by NASA, and he is now again exploring space, specifically the balance point,

or Lagrangian point, between the Milky Way Galaxy and the Andromeda Galaxy, a point of zero gravity that Burgess believes represents a true sense of freedom.

Burgess hopes to send two sets of radio waves to this point, one from each side of Earth, creating an interference pattern which he describes as a radio hologram. This project, which will take place some 1.1 million light years away from Earth, is another demonstration that art can take place anywhere, expanding our own reality by expanding the locations where artists can work.

For anyone interested in experiencing Burgess's work inside of our galaxy, check out Forum 61, running from November 10, 2007, to March 2008 at the Carnegie Museum of Art, an exhibition that will contain a number of his large-scale paintings from the past 40 years.

**Patrick Gage Kelley** | Dossier Editor

# Holler at your boys

## Philly thrillers bring the party to the people

Having friends in the music business has worked to the advantage of Philadelphia-based emcees Diplo, Hollertronix, and Spank Rock. Diplo (real name Wesley Pentz), whose upbringing in Mississippi factors into his melding of dirty South and Miami bass beats with current hip-hop and rap tracks, fuses music styles from Tel Aviv to Rio into danceable mixes.

In 2004 Diplo released his debut full-length album, *Florida*, an 11-track smorgasbord spanning such genres as Brazilian baile funk, instrumental hip-hop, and cinematic electronica. The single "Diplo Rhythm" was featured on *Grey's Anatomy* and exemplified Diplo's ability to smoothly incorporate seemingly disparate styles of music. As of 2006, Diplo added impresario to his credentials by founding his own label, Mad Decent. The DJ wunderkind's lengthy list of collaborators includes British singer and former girlfriend M.I.A., for whom he remixed several singles for the compilation *Piracy Funds Terrorism*.

Along with DJ Low Budget, Diplo has branched into the mashup genre under the moniker Hollertronix. This year alone, the duo released remixes of Peter Bjorn and John's indie-pop tune "Young Folks" and Daft Punk's techno blaster "Harder, Better, Faster, Stronger." They have sampled everything from Three 6 Mafia to Modest Mouse and ingeniously interweaved The Clash's "Rock the Casbah" with Missy Elliott's "Gossip Folks." The boisterous Beat boys have amassed a following of party-hearty trendsters as a result of their accessible yet creative mashups.

Taking a hint from the buzz surrounding these up-and-comers, London dance club Fabric dipped into the

Philadelphia DJ pool and enlisted both Diplo and Spank Rock's talents, resulting in the releases of *Fabriclive 24* and *Fabriclive 33*. The two compilations include remixes of Aphex Twin, Ludacris, Chicks on Speed, and Hot Chip. Especially since they debuted merely a year ago, this was a commendable honor for Spank Rock.

Laying rapid-fire rhymes over bass-heavy electro-rap beats, the Spank Rock collective — comprised of Armani XXXchange, Chris Rockswell, and Spank Rock — never fails to stimulate a crowd with their vibrant sound. Since Spank Rock's 2006 debut album *YoYoYoYoYo* exploded onto the flashy Philadelphia party scene, the group has been hailed by critics, among them Radiohead frontman Thom Yorke, who lauded the album as one of his favorites. The group has toured with Hollertronix and M.I.A. and opened for Beck and Björk, but Spank Rock's accomplishments do not stop there. Xfm London named the group's single "Bump" Single of the Year in 2006, and the hip-jerking anthem "Backyard Betty" appeared in the video game *Madden NFL 07*.

Philadelphia new schoolers Diplo, Hollertronix, and Spank Rock have quickly made a name for themselves in the City of Brotherly Love and beyond, turning concert venues into sweaty dance parties where anyone can be, as Spank Rock puts it, "an ass-shakin' competition champ."

**Sanyu Kyeyune** | Staffwriter



Courtesy of [www.fabriclondon.com](http://www.fabriclondon.com)

Mississippi-born Wesley Pentz, also known as Diplo, creates danceable music by blending fusions of multiple genres.



# CD Dropbox

Winehouse is full of soul, and *Challengers* faces challenges

## Amy Winehouse, *Back to Black*

With most of Hollywood in rehab this summer, Amy Winehouse's infamous summer anthem "Rehab" arrived with perfect timing. The remainder of *Back to Black*, her sophomore album, is a surprising blend of old soul and new R&B. Winehouse matches her unexpectedly bluesy voice with background vocals and instruments played in the fashion of '50s and '60s super girl groups with a twist; instead of dwelling on lost love, Winehouse manipulates her vocals to sing about other topics: the troubles of unworthy men, her addiction to booze, and, in "Addicted," her refusal to share her weed.

Winehouse has the ability to connect with her listeners with honest lyrics and a language so completely unanticipated. This album's old-soul feel is more pronounced than Winehouse's debut, *Frank*. *Back to Black* shows a more gutsy Winehouse, as she trades in her first effort's hip-hop for blues, as evidenced by various stand-out songs, from "Tears Dry On Their

If someone were eating at Wendy's, watching the credits of a romantic comedy, or shopping at Target and one of *Challengers*'s song came on, it wouldn't seem out of place.

Own," to "Me & Mr Jones." Her modern twist on classic music is versatile enough to attract different audiences — by no means an easy feat.

## Gym Class Heroes, *As Cruel As School Children*

This summer, Gym Class Heroes made a surprise appearance on the mainstream music scene with their infectiously glorified single, "Cupid's Chokehold." But, like Amy Winehouse, Gym Class Heroes are more experienced than the new artist label they have thus far attained. *As Cruel As School Children* is the third album featuring the dynamic vocals of frontman Travis McCoy, who acts as the representative personality of the group. (Gym Class Heroes was, as the name might suggest, formed in McCoy's and drummer Matt McGinley's gym class around 1999.) The indie group perfected its effortless blend of hip-hop and rock somewhere between 2005's *The Papercut Chronicles* and the original release of *As Cruel As School Children* in the summer of 2006.

The group's newest album, upbeat and optimistic in both rhythm and lyrics, is an absolute reversal from *Chronicles* — a more somber record, successful in its contemplation of drug addictions, family deaths, and broken hearts. McCoy's soul is less evidently in *School Children*, but his catching vocals are almost overwhelming, especially in tracks like "Viva La White Girl" — which, McCoy assures his audiences, is not about white girls, but a metaphor for his love of music.

The album's other tracks seem to be a portrayal of Gym Class Heroes's move to the mainstream, with catchy lyrics and beats that skim the surface, refusing to go as deep as *Chronicles*. Still, it was *School Children* that put Gym Class Heroes on the map.

Rachael Clemmons | Assistant Layout Manager

## The New Pornographers, *Challengers*

The biggest problem with The New Pornographers's latest record, *Challengers*, is that many of its songs would sound far too fitting in places where respectable, worthwhile music rarely gets played. If someone were eating at Wendy's, watching the credits of a romantic comedy, or shopping at Target and one of *Challengers*'s songs came on, it wouldn't seem out of place. The music is a little too "feel good," even maudlin at times. This is not to say that this music is vapid, or even that

all music that blends harmlessly into the background is somehow innately bad, but it's definitely not a trait that an indie band wants associated with its music.

Fortunately, The New Pornographers are very skilled at crafting pop songs. Songwriters A.C. Newman and Dan Bejar offer fun and whimsical melodies that are catchy in a good way. Their lyrics are creative and clever, nonsensical in a way that is never intimidating or pointless. The instrumentation on *Challengers* is also impressive. The New Pornographers manage to incorporate a multitude of unusual instruments — shaker eggs, French horns, and strings — that never sound superfluous or intrusive. The guitar effects and tones are worth marveling over for their appropriateness and ingenuity, most notably in the song "Entering White Cecilia," and the riffs are as much as an indie rock fan could ask for.

The sheer talent of The New Pornographers is what allows this record to work. But, the frenzied exuberance of previous albums like *Twin Cinema* and *Mass Romantic* (think of the song "The Bleeding Heart Show") is lost. So, while The New Pornographers remain a superior group, the undesirable meekness of their new sound is causing them to stand out less and less from your average pop band.

Steven Weinberg | Junior Staffwriter



# Paperhouse

## On cool-down music

It is impossible to have a conversation without someone bringing up the heat. Relentless sunlight boils our flesh and swampy humidity makes even typing a sweaty affair. My pink is peeling off and my brain is in a liquid state — and, reader, I am sure you feel the same. With that in mind, here is a playlist of songs for suckling popsicles.

Bauhaus, "Mask." In "Mask," Bauhaus sends you directly inside the thick stone walls of a subterranean dungeon. Peter Murphy moans in pain, with cymbals crashing like whips. It's all dark and gloomy and goth until the 2:40 mark, when a beautiful, light guitar melody replaces whips and moans. "The shadow is cast," Murphy cries. Hurrah! I need some shade.

Junior Boys, "Double Shadow." The Canadian duo's beats are always icy — especially this one, which has whispering vocals that are not warmly romantic. Instead, "Double Shadow" begins with some unromantic insults, and then launches into an understated beat with a compliment: "you good fuck." At least whoever this song is tearing to shreds has that, right? That, and a surprisingly soulful track complete with handclaps in their memory.

Pluxus, "Solid State." This Scandinavian electro track begins with a slow, jingling beat, reminiscent of ice cubes clinking in glasses. Quickly, other synthetic sounds roll in, sounding like the best parts of summer — clicking cameras, an oscillating fan, the hum of insects at nightfall, a carnival melody, the plinking of coins into a fountain. Still, the mood is not nostalgic. This slow, dark, and fizzy song seems tired of the summer heat.

M83, "Teen Angst." What goes together better than teen angst and the dying days of summer? Ethereal male vocals, a throbbing beat, and hazy guitar washes make this an ideal song to listen to during a dusk walk amid the mosquitoes.

TV On The Radio, "Wear You Out." "Wear You Out" begins as a vocal-driven track, with Adebimpe's voice fluttering effortlessly above simple drumming. Soon, gentle chimes, horns, and bass arrive and his voice swoops back down to sensually meld with the chugging, bluesy orchestra. After a blast of heat, TVOTR cools it off with an icy flute jam.

The Flaming Lips, "Bad Days." Just when students start dreading the start of class and the onslaught of work, Wayne Coyne reminds us, "You have to sleep late when you can, and all your bad days will end." Take heed from this surprisingly low-key Flaming Lips track. Sleep will be torn from our sweaty grasp all too soon, and when the cool fall comes we will be wishing for summertime once again.

Caitlin Osbahr | Special to The Tartan

## top 10 on WRCT 88.3 FM

most played albums of the last week

- 1 Wilco, *Sky Blue Sky*
- 2 The Stooges, *The Weirdness*
- 3 Sonic Youth, *The Destroyed Room*
- 4 Graham Parker, *Don't Tell Columbus*
- 5 John Doe, *A Year In The Wilderness*
- 6 The Gothees, *Meet the Gothees*
- 7 GeoMATA, *GeoMATA*
- 8 Bill Callahan, *Woke on a Whaleheart*
- 9 Artichoke, *Never Mind the Bollocks Here's the Sex Pistols*
- 10 Various Artists, *Woodlab Vol. 4*



# Fresh food

## New spots for bites in the 'Burgh

At the start of a new semester, there are a lot of new things to experience: new classes, new professors, and new friends, to name a few. With all of these fresh starts and exciting new opportunities, why stick to the same old food? Check out these new restaurants in Pittsburgh for a taste of something different.

**Marzoni's Brick Oven & Brewing** 4643 Route 8, Allison Park. 412.486.9291.

Popular beer and pizza destination Marzoni's recently opened a second location in Hampton. In addition to pizza, Marzoni's serves a variety of other foods, including Italian-style entrées, grilled meats, and seafood. The company brews its own beer, which is shipped to Hampton from the original location. There are six different brews to try, and if you'd like to try them all at once (and are of age), they offer a sampler. Prices here are moderate with the most expensive entrée costing about \$22.

**Imagines** 631 Painters Run Road, Upper St. Clair. 412.221.0350.

While Imagines itself is new, the food isn't. Imagines is located in Upper St. Clair, and it recently took over the old restaurant Pasquarelli's. Despite the new name, many of the favorite dishes from Pasquarelli's are still being served. In addition to the Italian dishes carried over from before, Imagines serves a variety of creative new entrées and meats. Entrées run \$9–\$28, and the price includes a full meal with bread, soup, salad, vegetables, and either pasta or potatoes. Both lunch and dinner are served daily.

**Palate** 212 Sixth St. 412.434.1422.

Located downtown in the Cultural District, Palate is a modern bistro serving a variety of foods in the French-fusion style. The prices for dinner and the theater tasting menu aren't cheap, but the bistro offers a happy hour with \$5 appetizers and a few sandwiches. The bar menu hours are 4:00–6:00 p.m. and 10:00 p.m.–1:00 a.m. Palate also offers a variety of desserts, and the restaurant includes a lounge area in addition to restaurant seating.

**Muriel's** 856 Western Ave. 412.322.0476.

Muriel's, a small restaurant on the North Side, recently won a *Pittsburgh Post-Gazette* reader poll for best American cuisine in Pittsburgh. Located in a Victorian house, Muriel's has a small dining room in addition to the outdoor seating area. The food is relatively inexpensive and healthy. Muriel's serves lunch and dinner Monday–Saturday, and a popular brunch on Sundays, which includes a complimentary mimosa.

**Sassy Marie's** 422 Foreland St. 412.246.0353.

Sassy Marie's on the North Side offers American regional cuisine and live jazz performances. The menu includes

appetizers, entrées, and desserts, and offers a variety of unique flavors. Everything is made entirely on site, including salad dressings and desserts. Sassy Marie's is open for lunch and dinner daily, with a brunch served on Sundays. Live jazz performances are held on Friday and Saturday nights, usually with a small cover charge.

**Tusca** 2773 Sidney St. 412.488.9000.

Tusca, a new European-style restaurant on the South Side, specializes in tapas. The tapas are diverse, with influences from many European and Middle Eastern countries including Spain, Italy, Morocco, and Greece. The tapas are big enough to share with a friend or two, and cheap enough

(around \$5–\$10) to order a few. Tusca also serves a few full entrées and several desserts.

**Mojo Bistro** 172 Lincoln Ave., Bellevue. 412.761.2828.

This new restaurant in Bellevue serves Thai-Cajun fusion cuisine. Mojo Bistro itself opened as a coffee shop last February, but has since been converted to a full restaurant. Mojo Bistro opens daily at 8:30 a.m. for customers. Dinner may be pricey (up to \$50 for two people), but lunch choices are more affordable and a great way to try out the restaurant.

**Amanda Cole** | Staffwriter



Jennifer Kennedy | Art Staff





**The Lookout**  
Thursday, August 30  
8 10 12

Scott Frank, the screenwriter behind *Minority Report*, makes his directing debut in the *Memento*-like thriller *The Lookout*. After losing his short-term memory in a car crash, Chris Pratt (Joseph Gordon-Levitt) adjusts to a mundane life consisting of physical therapy and a night job as a janitor. All of that’s fine, or at least manageable, until a smooth-talking new friend convinces Pratt to play a part in a bank robbery. Intriguing plotline aside, the movie is worth it for Gordon-Levitt alone — in case your *10 Things I Hate About You* DVD is skipping.

**Red Road**  
Thursday, September 6  
8 10 12

Set in Glasgow, Scotland, *Red Road* follows a CCTV (closed circuit television) operator named Jackie. We get a vibe she has a tortured past, but the real trouble starts when Jackie recognizes a man she sees on the job (he lives in the Red Road flats — hence the name). Jackie starts watching him and stalking him obsessively, eventually seducing him, filing a false rape charge, and landing him in jail. The intriguing part is that we don’t learn until the end how Jackie knows this man, or what she wants with him.

**Grindhouse**  
Friday, August 31  
6:30 10

If paying \$1 for a movie is a bargain, paying \$1 for *two* movies has got to be a steal. *Grindhouse* channels the drive-in horrors of the ’50s, offering a duo of films by cult heroes Quentin Tarantino and Robert Rodriguez. First up is *Death Proof*, Tarantino’s serial-killer flick with the predator using his car as the weapon of choice. Then there’s Rodriguez’s *Planet Terror*, a zombie thriller worth a watch if only because we go to school in Pittsburgh.

**Spider-Man 3**  
Friday, September 7  
7:30 10 12:30

*Spider-Man 3* continues in the campiness of the series’ part *deux*, primarily in its setup. Newcomer Thomas Haden Church falls into a sand-filled particle accelerator, which, instead of killing him, turns him into a super villain called Sandman... with the phenomenal power to disintegrate into sand. And, some alien ooze latches onto Peter’s moped during an evening under the stars with Mary Jane (talk about an awkward date). The ooze later climbs onto Peter’s costume and alters his personality, which is illustrated by the suit turning black. Deep.

**Zodiac**  
Saturday, September 1  
7 10 1

If you changed the plot of *All the President’s Men* to portray a homicidal Richard Nixon, you’d pretty much have *Zodiac*. It has all the glamour of a smoke-filled ’70s newsroom, where we watch the employees of the *San Francisco Chronicle* (a snappily on-point Robert Downey Jr. and an adorably obsessive Jake Gyllenhaal) try to find a serial killer without so much as a dial-up connection. Keep in mind, though, that the movie tells the story of an unsolved mystery — so don’t expect a tightly stitched ending.

**Rang de Basanti**  
Saturday, September 8  
7 10 1

Bollywood! In *Rang de Basanti*, some college slackers agree to participate in a documentary about the Indian Independence Movement. The students play characters involved in the revolution’s terrorist underbelly, and they are soon inspired to ditch their apathetic tendencies in favor of patriotic passion. History repeats itself, and the group takes on a corrupt defense minister in the spirit of the characters they play. The result is largely successful, though a little forced at the film’s end. It’s two hours and 37 minutes — bring a bedpan.

**Day Watch**  
Sunday, September 2  
7:30 10 12:30

Russian fantasy *Day Watch* might not make sense unless you’ve seen *Night Watch*, the first of the series, but here goes: Anton, the hero from the first film, returns to his role as the middleman between a pair of contending groups called the Light and Dark Others, humans with supernatural powers on the respective fronts of good and evil. Anton canoodles with love interest Svetlana (no, not the girl from *The Real World*), and the pair seeks out something called the Chalk of Fate, a super-sweet writing implement with the capability to rewrite history.

**Plan 9 From Outerspace**  
Sunday, September 9  
8:30 10 11:30

Many people consider *Plan 9 From Outer Space* to be the worst movie ever made. It might be worth it to see *Plan 9* for that reason alone, to make yourself feel better about all the slightly less-bad movies you’ve seen. If not, here’s a story: Writer/director Edward D. Wood Jr. wanted Bela Lugosi to be in his movie so badly that when the actor died mid-movie, he hired his wife’s chiropractor to stand in for the role.

Did you know?

100

September 18, 1907

50

September 24, 1957

25

September 7, 1982

10

September 2, 1997

5

August 26, 2002

1

August 28, 2006

The sports section includes an instructional article on how to swim. The average swimmer-to-be, says the writer, requires six to 10 lessons to master the art of not drowning. The author makes a point to discourage the age-old technique of throwing a kid in a river and (assuming he survives) teaching him to swim.

A Tartan writer enrolled in Margaret Morrison Carnegie College complains that none of her classes have any boys in them. Sure, she writes, the boys don’t want to take cooking or sewing, but they wouldn’t be so out of place in classes like English and history. 50 years later, take a seat behind one of those all-work, no-shower boys, and you’ll see why some people thought it was a good idea to separate the sexes.

An ad appears for roller-skating on the Cut, \$1 per hour on a Friday afternoon. Why don’t we still do fun things like this? I know I’m not the only one who’s sick of *Dance Dance Revolution*.

An article reveals that Carnegie Mellon does not own the acronym “CMU” — it belongs to Central Michigan University. Well, at least we still have dibs on gems like MCS, SCS, H&SS, CFA, and CIT. OMFG.

Pillbox releases its first issue, encompassing the former Arts & Living and Entertainment sections in a single tabloid. The name “Pillbox,” says a letter from the editor, is supposed to represent “something hip and innovative.” Well, that might be true — but in 2007, the name Pillbox is more likely to connote something confusing, mysterious, and vaguely medicated.

A Tartan writer rails against a staple of many people’s college diets: ramen noodles. According to the article, one package of ramen contains about 1800 milligrams of sodium. It’s death — just add water.

Sarah Mogin | Pillbox Editor

Sarah Mogin | Pillbox Editor



# Getting ‘In Your Element’

[ J.W. Ramp | Assistant Photo Editor ]

Convocation, House Wars, and the talent show help first-years settle in



**Above:** The blue team takes time for a dance party during House Wars on Friday.

**Right:** The green team passes the sponge as part of the *Guerras de Casas* (that’s “House Wars” in Spanish.)

**Opposite (clockwise from top left):** New House first-years in the School of Drama perform a song by the Spice Girls in Saturday’s talent show in Rangos; What are those cylindrical objects sitting upright next to Kris Cecchetti, an educator with Health Services?; First-years in SCS dress to impress with funny glasses during Convocation on Thursday.

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Photo editing is a great way to turn a realistic photo into something... slightly less plausible.



J.W. Ramp | Assistant Photo Editor

# Like Photoshop, but easier

## Graduate students bring photo editing to the masses

People always bring back the same couple of things from family vacations: tan lines, empty wallets, made-in-China souvenirs, and — of course — photographs. And no family album could be complete without the requisite duds: Mom’s poorly timed shot of Lake Winnepesaukee, obscured by that boat that sailed into the picture; Dad’s artsy still of Abbey Road at sunrise, looking eerily vacant instead of serene. Hoping to remedy such photo *faux pas*, researchers at Carnegie Mellon developed two new photo editing techniques that could help the next family album earn its place on the coffee table.

### Ditching the sailboat

James Hays, a Ph.D. candidate in SCS’s Graphics Lab, created a system called Scene Completion; he designed the technique around *flickr.com*. Scene Completion may just be the perfect solution for a botched Winnepesaukee scene — the software makes it easy to fill in a photograph’s holes, whether from physical damage or the removal of an object (an obtrusive sailboat, for example). It considers the colors and textures of the spot surrounding the hole, in addition to contextual factors; it won’t suggest a giraffe to fill a lake, for example.

Using this criteria, the Scene Completion method presents its user with a list of up to 20 images that can fill in the hole. So, Mom can choose to add a kayak, another sailboat, a swimming tourist, etc. Not all of the 20 photographs will fit in the picture (some might not match the lighting, for example), but two or three likely will. “The method has a low success rate,” said Hays. “It needs a lot of data.” The accuracy of Scene Completion increases with the amount of images it can search from.

### Populating Abbey Road

For Dad’s deserted Abbey Road, graduate student Jean-François Lalonde created a technique called Photo Clip

Art. Lalonde’s method uses images divided into categories, such as people, cars, and trees. “We want to add specific objects,” he said. The program asks its user to click on a photograph’s horizon line, which it uses to define criteria for the images that someone might want to add. At this point, if a user clicks on “car,” the program will show all of its photographs of cars in an ordered list; the ones that closest match the original image’s lighting and camera angle conditions are listed at the top.

Photo Clip Art is especially useful for people interested in modeling projects, such as an architect proposing a building plan or a screenwriter working on a storyboard. An architect, for example, might be interested in seeing how the lawn of a prospective complex would look with people on it, Lalonde explained.

Aside from the specifics, the overwhelming benefit of both photo editing projects is that Mom and Dad can actually use them. “Our goal was to make this not completely automatic but as easy as possible,” Lalonde said. Users need not understand Adobe Photoshop — or even Microsoft Paint — to use the software.

### Credibility

With this kind of accessibility, there’s a risk that editing photographs could become *too* easy. If Mom and Dad can add a car and subtract a sailboat from every family picture, the entire album could lose its credibility. Moreover, if photojournalists can add, say, an exploding warhead to a photograph of Iraq, it could lead to credibility problems that eclipse even the Jones’s Family Album.

“There’s been reason to be suspicious of photos for a long time,” said Hays. Although the techniques coming from Carnegie Mellon may be new, the results that they achieve have long been possible through tools like Photoshop and

other programs. In terms of what you can do, said Hays, “the sky is the limit.”

And in a way, it always has been. One of the earliest photo controversies dates back to 1858, when Henry Peach Robinson published a photograph called “Fading Away.” The picture showed a young girl dying while her family watched and wept, but there was only one problem: It wasn’t real. The people in the photograph were all actors, and, on top of that, Robinson created the image by combining the negatives of five separate photographs.

“The public got really upset. They got duped,” said Charlee Brodsky, a professor in the School of Art. It’s easy to think that new technology in photo editing is going to change photography forever, or at least its credibility. But, as Brodsky explained, the Scene Completion and Photo Clip Art projects are only newer and easier ways to create effects that have been possible for years. “I think that what people might not know is that we’ve had trickster photography for a long time,” said Brodsky. “We had photographic manipulation in the darkroom.”

With Carnegie Mellon’s tools for the technology-deficient, Mom and Dad could become the next Henry Peach Robinson.

**Sarah Mogin** | Pillbox Editor



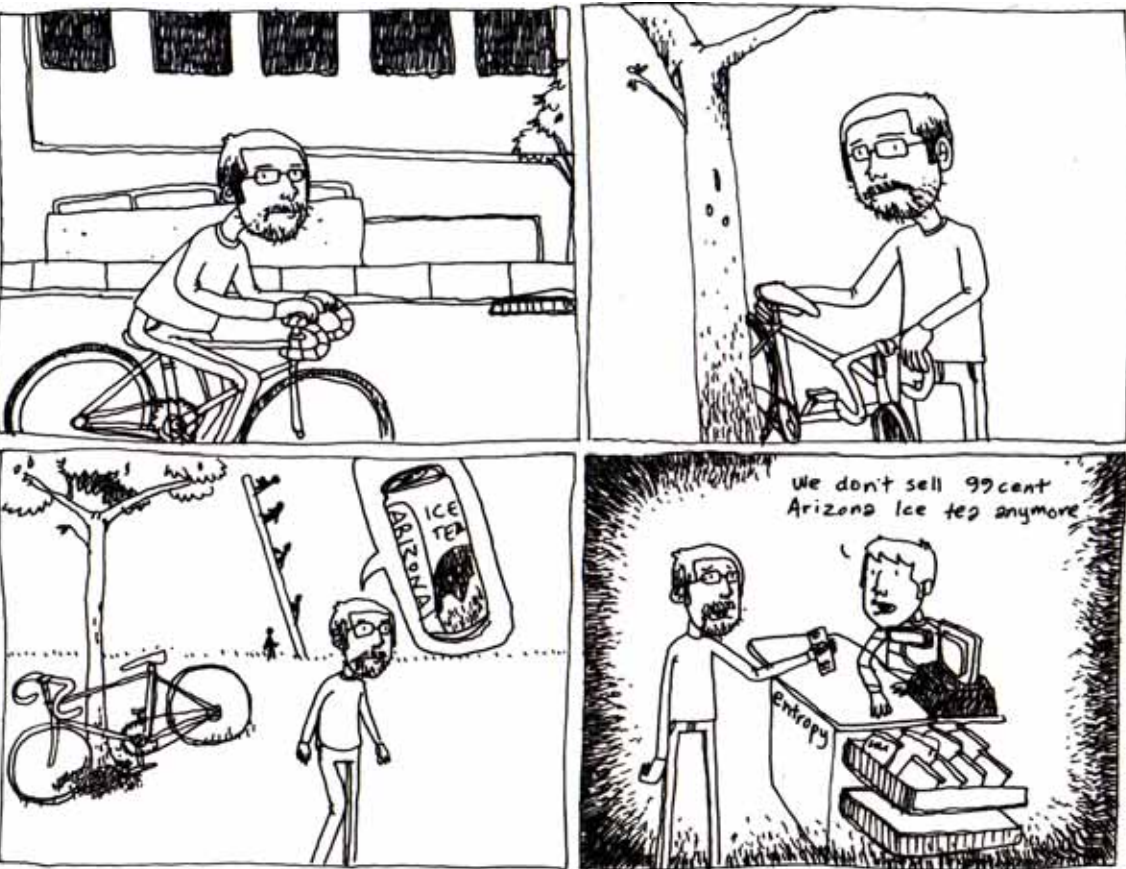
Interrobang by Selena Beckman-Harned



sbeckman@andrew

Insight by James Hounslow

jhounslow@gmail.com



Almost Exactly by Laura Daniels

lfd220@nyu.edu



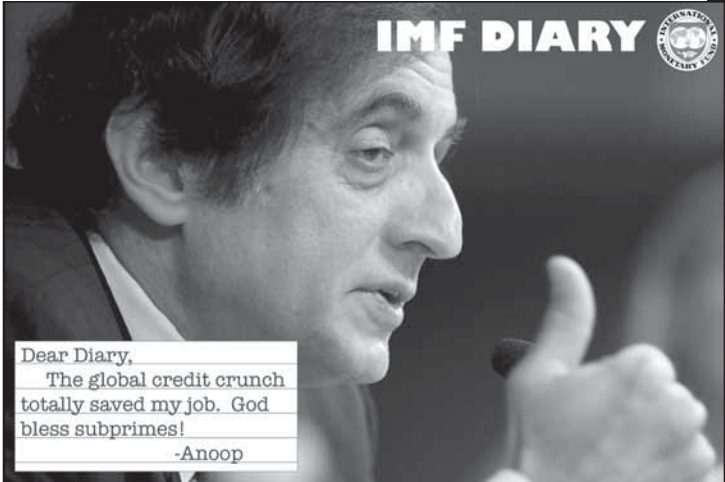
11:45 by Lea Albaugh

lea@andrew





IMF Diary by Robert Kaminski



rkaminsk@andrew

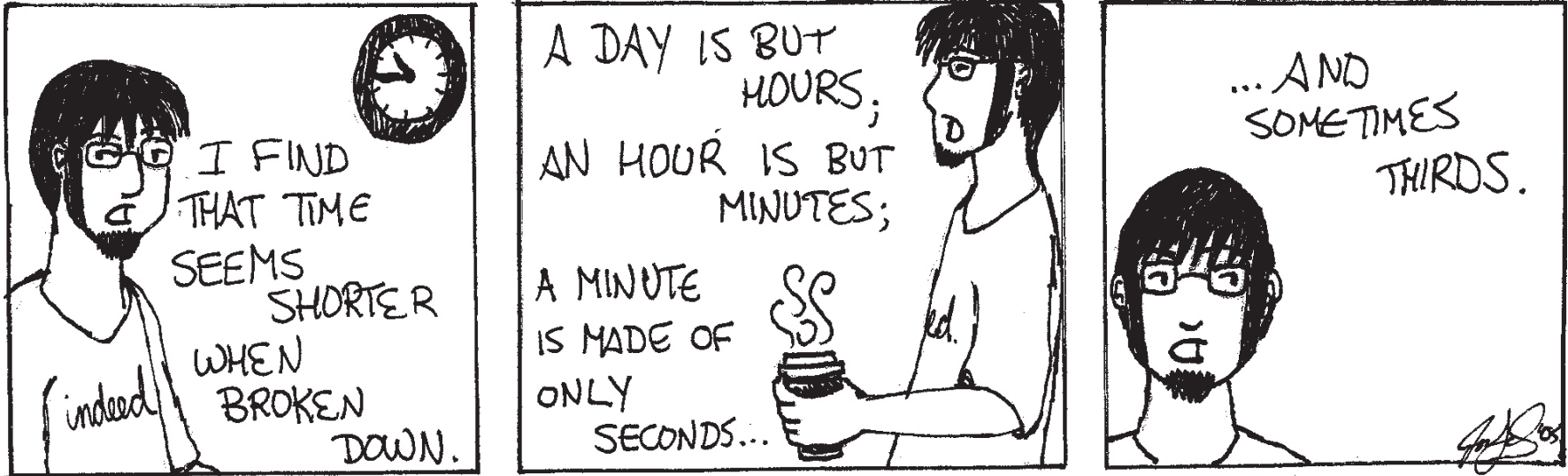
Untitled.dwg by Grace Whang

gwhang@andrew



All Hail the Jon by Jon Samuels

jttheninja@cmu.edu





# Horoscopes

## aries

mar. 21–apr.19

You woke up late for class. Don't run. You're already late.

## taurus

apr. 20–may 20

Big people are moist in the summer, but insured for the winter.

## gemini

may 21–jun. 21

It's still summer if you say it is. Are we really here?

## cancer

jun. 22–jul. 22

Pay attention! The first day of classes is when they go over the rules you'll break.

## leo

jul. 23–aug. 22

So many things you should have done over summer break will flood your mind. Make sure you call FEMA.

## virgo

aug. 23–sept.22

In some cultures, people drink drain cleaner to treat indigestion. It must be right because it was on the Internet.

## libra

sept. 23–oct.22

Some people come back from summer break in a different shade. Why is yours green?

## scorpio

oct. 23–nov. 21

Drop the course now.

## sagittarius

nov. 22–dec. 21

Yes, Mountain Dew for breakfast.

## capricorn

dec. 22–jan.19

You try to be a sweet person, but only bears will love you.

## aquarius

jan. 20–feb. 18

Taking a nap on the grass is the best outdoor activity when you're laying in poop.

## pisces

feb. 19–mar. 20

Your friends are back! They don't remember your name.

Gene Kim | Comics Editor

## Married to the Sea



[www.marriedtothesea.com](http://www.marriedtothesea.com)

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# Sudoku

Difficulty: easy

3			8	5	7	4	9	
			3				1	
8					4		6	
6		7					2	
		3				7		
	2					1		6
	3		7					9
	7				2			
	8	9	4	6	1			3

Difficulty: hard

2				1	6		7	3
			7					
	1	7		3	2			
1	8		6					7
	5						1	
9					1		2	4
			5	8		6	9	
					9			
8	6		1	2				5

Play online, including a bonus puzzle, at  
<http://www.thetartan.org/comics/sudoku>

## Solutions to last issue's puzzles

1	4	9	6	7	2	8	5	3
3	6	8	1	5	9	7	4	2
2	5	7	4	8	3	6	9	1
6	1	4	2	9	8	3	7	5
9	7	2	5	3	4	1	6	8
8	3	5	7	6	1	9	2	4
4	9	3	8	2	6	5	1	7
5	8	1	9	4	7	2	3	6
7	2	6	3	1	5	4	8	9

2	7	3	8	6	9	1	4	5
4	6	1	3	2	5	8	7	9
8	5	9	4	7	1	2	3	6
7	1	6	9	4	3	5	2	8
3	4	5	2	8	6	7	9	1
9	8	2	1	5	7	3	6	4
5	2	4	6	3	8	9	1	7
6	9	8	7	1	2	4	5	3
1	3	7	5	9	4	6	8	2

# Crossword

1	2	3	4		5	6	7	8	9		10	11	12	13
14					15						16			
17					18						19			
20				21						22				
23			24					25						
		26				27	28		29			30	31	32
33	34				35		36					37		
38					39						40			
41				42						43				
44			45				46		47					
			48			49			50				51	52
53	54	55					56	57				58		
59						60					61			
62						63					64			
65						66					67			

<http://www.bestcrosswords.com> Used with permission.

## ACROSS

- Trigonometric function
- "Forbidden" fruit
- Light source
- Natural blue dye
- Drawing room
- Malarial fever
- Set right
- Slope
- Manager
- Tolkien ogre
- Last night
- Fireman
- Actual
- Thawed
- Disinclined
- Drive back
- Squander
- Cut and dried grass
- Tiger's choice
- Compassion
- Story
- John in England
- Main artery
- Ribbons
- Lively intelligence
- Chairs
- Image of a deity
- Played at a fast tempo
- Witches
- Indian dish
- Mormon state of western U.S.
- Bury
- Indian instrument
- Widespread
- Pilfer
- Islamic call to prayer
- Performs
- British soldier
- South African grassland

## DOWN

- Aegean island
- Inactive
- Simpleton
- Antiquity, old-style
- State positively
- Friends
- Land map
- Hermit
- Plea
- Likely to change
- Highly excited
- Mawkish sentimentality
- Nuisance
- Shout
- Church center
- Sharp
- Pitcher
- Bar game
- Talk with extravagant enthusiasm
- Garage event
- Baby blues
- Irritate
- Greek god of love
- Move off hastily
- Driver
- Lofty
- Helper
- Some digits
- Wealth
- Too
- Slow, musically
- Artificial waterway
- Gnu cousin
- Chapter of the Qur'an
- Auricular
- Floating platform
- Stalk
- Thin stratum
- Sixth letter of the Hebrew alphabet



<b>MONDAY</b> 08.27.07		6 p.m. & 9:30 p.m. 412.456.6666.		Featuring Aviation Blondes and Waking Matthew (rock). Market Square. 5:30 p.m. 412.232.0751.	
<b><i>Lady Chatterley.</i></b> Regent Square Theater. 8 p.m. 412.682.4111.		<b>Men, Women &amp; Children.</b> Rock. Mr. Small's. 7 p.m. 412.821.4447.		<b>Jon Check &amp; The Niro.</b> Alternative rock. Shadow Lounge & Ave Lounge. 9 p.m. \$5. 412.363.8277.	
<b>TUESDAY</b> 08.28.07				<b>FRIDAY</b> 09.07.07	
<b>JazzLive Katz Plaza.</b> This week: Obek. Katz Plaza. 5 p.m. 412.566.6666.		<b>SATURDAY</b> 09.01.07		<b>UC Fridays.</b> UC Kirr Commons. 4:30–6:30 p.m.	
<b>Best of the Burgh.</b> Funny Bone. Station Square. 7:30 p.m. 412.281.3130.		<b><i>Deadly Vows.</i></b> Comedic play. Funny Bone. Station Square. 7 p.m. 800.719.0998.		<b>Open House.</b> Tours and previews. City Theatre. 5 p.m. Free. 412.431.2489.	
<b>JazzLive Backstage Bar.</b> This week: Colter Harper. Backstage Bar at Theater Square. 8 p.m. 412.456.6666.		<b>UC Late Night.</b> UC Kirr, Wean, and Connan. 9 p.m.–1 a.m.		<b>Brad Yoder.</b> Singer/songwriter. Mullaney's Harp & Fiddle. 5 p.m. 412.642.6622.	
<b>The Meat Puppets.</b> Punk, country, rock. Mr. Small's. 8:30 p.m. 412.821.4447.		<b>SUNDAY</b> 09.02.07		<b>Emmy Nomination Party.</b> Presented by KDKA's John Cater and Ya Momz House. Oliver or Twist. 5 p.m. 412.255.0525.	
<b>WEDNESDAY</b> 08.29.07		<b>Reservoir of Jazz.</b> Spirit on the Hill. Highland Park. 5–7 p.m. 412.255.8975.		<b><i>Deadly Vows.</i></b> Comedic play. Gaetanos Restaurant. 7 p.m. 800.719.0998.	
<b>Gene Ludwig.</b> Jazz. Backstage Bar at Theater Square. 6 p.m. 412.456.6666.		<b>The Ditty Bops.</b> Mr. Small's. 8 p.m. 412.821.4447.		<b>Nonpareil Wind Band.</b> Part of First Fridays at the Frick. Frick Art & Historical Center. 7 p.m. \$5. 412.371.0600.	
<b>Big Red Comedy Show.</b> Affogato Coffee Bar. 7 p.m. Free. 412.761.0750.		<b>Neil Hamburger.</b> Stand-up comic. Gooski's Bar. 9 p.m. 412.681.1658.		<b>Radical Riffs.</b> Acoustic trio. Wood Street Galleries. 8 p.m. \$4–\$6. 412.471.5605.	
<b>All Pro Wednesday.</b> Funny Bone, Station Square. 7:30 p.m. 412.281.3130.		<b>MONDAY</b> 09.03.07		<b>Michael Feinstein.</b> Pittsburgh Symphony. Heinz Hall. 8 p.m. 412.392.4900.	
<b>Stereo Total.</b> French-pop, rock, and a little bit of disco. Also: The Octopus Project. Andy Warhol Museum. 8 p.m. 412.237.8300.		<b>Labor Day Parade.</b> Annual event follows the Boulevard of the Allies. Downtown ("Golden Triangle"). 10 a.m. 412.922.7773.		<b>Billie Joe Shaver.</b> Country. Rex Theatre. 8 p.m. 412.323.1919.	
<b>THURSDAY</b> 08.30.07		<b>TUESDAY</b> 09.04.07		<b>Drink &amp; Draw.</b> brillobox. 9 p.m. \$10. 412.621.4900.	
<b>Live at the Square Happy Hour.</b> Featuring Big Green Tanks and School of Athens (rock). Market Square. 5:30 p.m. 412.232.0751.		<b>JazzLive Katz Plaza.</b> This week: Tony Campbell. Katz Plaza. 5 p.m. 412.566.6666.		<b>Tick Tock Lullaby.</b> Presented by the Pittsburgh Lesbian & Gay Film Festival. SouthSide Works. 9:30 p.m. 412.481.1750.	
<b>Paul Tabachneck.</b> Singer/songwriter. Backstage Bar at Theater Square. 6 p.m. & 9:30 p.m. 412.456.6666.		<b>Andrea Fraser.</b> Part of the School of Art Lecture Series. CFA. 5 p.m.		<b>SATURDAY</b> 09.08.07	
<b>Book Club Workshop.</b> Learn how to start your own. Joseph-Beth Booksellers (SouthSide Works). 7 p.m. 412.381.3600.		<b>Drink &amp; Draw.</b> brillobox. 6 p.m. \$10. 412.621.4900.		<b>Alice Kuipers.</b> Author discusses her book <i>Life on the Refrigerator Door</i> , about a mother-daughter relationship. Joseph-Beth Booksellers (SouthSide Works). 2 p.m. 412.381.3600.	
<b>Jenny Jean Love.</b> Acoustic. Shadow Lounge. 8 p.m. \$8.		<b>Best of the Burgh.</b> Funny Bone, Station Square. 7:30 p.m. 412.281.3130.		<b><i>Deadly Vows.</i></b> Comedic play. Gaetanos Restaurant. 7 p.m. 800.719.0998.	
<b>FRIDAY</b> 08.31.07		<b>JazzLive Backstage Bar.</b> This week: Colter Harper. Backstage Bar at Theater Square. 8 p.m. 412.456.6666.		<b>Amish Monkeys.</b> Improv troupe. Gemini Theater. 8 p.m. \$7. 412.243.5201.	
<b>UC Fridays.</b> UC Kirr Commons. 4:30–6:30 p.m.		<b>WEDNESDAY</b> 09.05.07		<b>91.3 WYEP Rock the Block.</b> Music by Mike Doughty and food. WYEP Community Broadcast Center. 8 p.m. 412.381.3737.	
<b>Station Square Street Jam.</b> Station Square. 5 p.m. 412.261.2811.		<b>Activities Fair.</b> CFA Lawn. Rainsite: Weigand Gymnasium. 4:30–6:30 p.m.		<b>UC Late Night.</b> UC Kirr, Wean, and Connan. 9 p.m.–1 a.m.	
<b><i>Essentials in Design.</i></b> One-day exhibit by M. Tang. University of Pittsburgh Law Library. 5 p.m. 412.624.4141.		<b>Big Red Comedy Show.</b> Affogato Coffee Bar. 7 p.m. Free. 412.761.0750.		<b>SUNDAY</b> 09.09.07	
<b><i>Nakashima Revealed.</i></b> Opening reception. Regina Gouger Miller Gallery. 5–8 p.m. 412.268.3618.		<b>Dan Gediman.</b> Author talks about his book <i>This I Believe</i> , an adaptation of the series on NPR. Joseph-Beth Booksellers (SouthSide Works). 7 p.m. 412.381.3600.		<b>Curtain Raisers.</b> River City Brass Band. Pasquerilla Performing Arts Center. 3 p.m. \$20–\$25. 800.292.7222.	
<b>Claire Ascani.</b> Jazz. SouthSide Works. 6 p.m. Free. 412.481.1750.		<b>All Pro Wednesday.</b> Funny Bone. Station Square. 7:30 p.m. 412.281.3130.		<b>Genesis.</b> Phil Collins and his friends. Mellon Arena. 7:30 p.m.	
<b>Gail &amp; Jeremy.</b> Jazz duo. Backstage Bar at Theater Square.		<b>THURSDAY</b> 09.06.07			

# Highlights

## Revealing Nakashima

August means moving into college, and moving into college means IKEA. So, it might be easy to forget that furniture is more than something to buy for cheap and sit on — you can look at it, too. *Nakashima Revealed: The Carnegie Mellon Collection* is the Regina Gouger Miller Gallery’s newest exhibit, featuring furniture crafted by Japanese-American designer George Nakashima. Nakashima created many one-of-a-kind pieces, each inspired by the patterns in the wood he was using. Carnegie Mellon bought about 60 pieces of Nakashima’s furniture in the mid-’60s, some of which is now in Miller Gallery for the exhibit. *Nakashima Revealed* starts with an opening reception on Friday, August 31 from 5 to 8 p.m. The exhibit runs through October 28.

## Lecture series begins

The School of Art’s fall lecture series begins on Tuesday, September 4 with a lecture by Andrea Fraser. Fraser is known for her work in various realms, including performance, video, and contextual art. She’s worked on group installations and solo projects, in addition to writing multiple essays and performance scripts. Fraser is also an associate professor in the department of art at the University of California, Los Angeles. Fraser lectures in Kresge Hall at 5 p.m.

**Sarah Mogin** | Pillbox Editor

\$59.75 and up. 412.323.1919.

**MONDAY**09.10.07

**University Lecture Series.** Mike Woodard of Jubilee House Community, Inc. talks about the Center for Development in Central America. Adamson Wing, Baker Hall 136A. 4:30 p.m.

**ONGOING**

***Rocky Horror Show.*** From Empty Jug Productions. August 29–September 1. \$12–\$15. 412.394.3353.

**Film & Video Shorts.** Warhol’s factory films from the ’80s. Andy Warhol Museum. August 29–September 2. 412.237.8300.

**Rich Vos.** Improv (Waterfront). August 30–September 2. 412.462.5233.

**Rascal Flatts.** Country. Also: Jason Aldean. Post-Gazette Pavilion. August 31–September 1. 412.323.1919.

***Gypsy Caravan.*** Documentary goes through the U.S. and parts of Europe and Asia. Regent Square Theater. August 31–September 13. 412.682.4111.

***Elementa Persona.*** Environment portraits by Dean M. Beattie. Moxie DaDa. August 31–September 22. 412.682.0348.

***Nakashima Revealed.*** Furniture by George Nakashima and metal sculpture by Dee Briggs. Regina

Gouger Miller Gallery. August 31–October 28. 412.268.3618.

**Chili.** Stand-up comedy. Also: Dean Mink and Brett Pintado. Funny Bone. Station Square. September 6–8. 412.281.3130.

**2007 Pittsburgh New Works Festival.** 21 one-act plays. Open Stage Theatre. September 6–9. 412.881.6888.

***Ah, Wilderness.*** Comedy by Eugene O’Neill. Pittsburgh Playhouse. September 6–23. 412.621.4445.

**Emergency Design Conference.** David Lawrence Convention Center. September 7–9.

**A Fair in the Park.** Craft fair. Mellon Park. September 7–9. 412.687.8858.

**Pittsburgh Irish Festival.** Sandcastle Waterpark. September 7–9. \$8–\$25. 412.462.6666.

***Dracula: Dragon Prince.*** Play presented by Rage of the Stage Players. Brew House Association. September 7–15. 412.851.0922.

***Same Frequency.*** Mixed media exhibit. Digging Pitt Gallery Too. September 8–October 27. 412.605.0450.

***Conceived Bully.*** Urban art. Digging Pitt Gallery Too. September 9–October 27. 412.605.0450.

***India: New Installations Part II.*** Contemporary art. Mattress Factory. September 9–January 20. 412.231.3169.



# banana-rama.



J.W. Ramp | Assistant Photo Editor

Bananas of the world unite! Senior ChemE Kris Aiyer, an RA for Morewood E Tower, got a little fruity during House Wars on Friday. Unfortunately, Aiyer's costume was not enough to win his team the prize; the red team won this year's competition.