

# Bringing back history

## ZBT frat could move back to CMU after 23 years

by **Michael M. Whiston**  
*Staffwriter*

The Zeta Beta Tau (ZBT) fraternity is returning to Carnegie Mellon with high hopes of strong bonds, networking, and fun. “We’re social.... We want to throw parties,” said junior self-defined major and ZBT co-founder Max Lerner.

Devoted to building ZBT anew, Lerner, along with sophomore computer science major Andrew Warshaver and sophomore business major Josh Mann, want to do things their way. “We fell through the cracks of Greek life at CMU,” said Warshaver. “This is catered toward us.”

Starting a fraternity began as a joke, according to Mann, but now it’s budding into reality. Mann was looking to begin his own fraternity at the same time that ZBT was talking about re-starting their CMU chapter. Meetings with the Pittsburgh chapter of ZBT and the past president of the national chapter were very positive, Mann said.

The previous ZBT chapter of CMU ended its nine-year stint in 1983 after a close call with alcohol poisoning and an incident of fighting with another student organization. University administration expelled ZBT from campus, and its then-members formed what is now Sigma Tau Gamma.

For Warshaver, Mann, and Lerner, this is a new endeavor, and the possibilities seem endless. From campus involvement to the kinds of meals served, the input of new members matters to them. “We’re pioneers, basically,” said Mann.

Unlike other fraternities that have already established their politics and leadership, members of the emerging ZBT chapter have freedom to pursue what they wish, said Lerner. “We’re on the same level,” he said.

Before becoming a chapter, the group must form a colony of 15 members. Mann hopes to accomplish this goal by the end of the year. If fall rush goes well next semester, Mann looks to rent out a house. Until then, the brothers plan on holding meetings and planning activities to attract members.

Even though existing fraternities have the advantage of financial stability over ZBT, it’s not an uphill battle for Mann. “Once we get past the whole colony stage ... the benefit will be unbelievable,” he said. “In the end, it’ll definitely pay off.”

Mann emphasized ZBT’s tight alumni network as a major benefit for job-seekers fresh out of college.

ZBT is the oldest, largest historically Jewish national fraternity. Speaking of the integration of secular Jews into

See ZBT, page A4



Kelly Duncan/Photo Staff

Josh Mann and Andrew Warshaver plan to bring ZBT back to campus.

# STEELTOWN ERUPTS



Dexter Hu/Senior Photo Staff



Marshall Roch/Online Editor



Jiaqi Tan/Photo Staff



Stacey Chu/Photo Staff

by **Shawn Wertz**  
*Assistant News Editor*

Flipping cars on their sides and dangling from lampposts, students celebrated the Pittsburgh Steelers’ victory in Super Bowl XL last night.

Forbes Avenue was a sea of black and gold as a crowd of celebrators rushed toward the Cathedral of Learning, the center of the Oakland celebration. During the event, the crowd overturned a parked vehicle and climbed on top of it, shouting “Go Steelers!”

From the beginning of the event, arrests were made primar-

ily by University of Pittsburgh police for offenses such as stolen traffic and parking signs. Meanwhile, a pack of mounted police stayed behind the riot barricade in case more serious offenses ensued.

Pittsburgh had been prepared for any riotous behavior since Friday. Targeted areas included the South Side, the North Side, and Oakland. Police helicopters kept Oakland in sight for the majority of last night. Furthermore, 12 extra corrections officers were placed on duty last night at the Allegheny County prison in case an influx of arrested individuals should occur, and police increased the expected riot zone.

See more photos online at [www.thetartan.org](http://www.thetartan.org)

## Professor makes model for less expensive wine

by **Steven Spurgeon**  
*Staffwriter*

Turning water into wine? Not quite, but a CMU professor may soon be able to create \$500 flavor in a \$10 bottle of newly-fermented wine.

Working in conjunction with the Pontifical Catholic University (PCU) in Santiago, Chile, chemical engineering professor Lorenz Biegler is currently modeling the yeast process using computers here at CMU. One possible byproduct of his research may be better-tasting, cheaper wine.

Biegler joined the project in 2002 when Dr. Ricardo Correa of PCU approached him for his help.

“He came to visit over the summer and told me about his work,” he said. “We started discussing optimization, and that’s how things started.”

Traditionally, the determining factor of a wine’s taste is its age: Over time, wines mellow and become

more fruity. This is due to the interplay of tannins, sulfites, and acids unique to each vintage.

How a wine will age, though, depends not only on the vines from which it is grown, but also on complex chemical reactions that occur in the yeast process. Sometimes the reactions can go awry, halting fermentation.

“Dr. Correa told me that some of the wineries in Santiago were having problems with fermentation, and that last year 40 percent of the fermentations were lost because of stoppages,” Biegler said.

Biegler believes that by modeling fermentation, these reactions can be better controlled and made more reliable. His goal is “to eventually control inputs, such as sugar or temperature,” in the hopes of regulating outputs, improving taste, and reducing manufacturing waste.

Much of his past work has involved system modeling, and he says that his current interest is with mathematical

See WINE, page A3

# Students protest the axe

## Hearts ‘sink’ over tree removal

by **Patrick Pettibon**  
*Junior Staffwriter*

Recently, 200 baby dolls and one professor got naked to support some trees that may be removed for construction of the new Gates Center for Computer Science. The center of the conflict brewing around the new plan is the removal of a grove of trees between the Purnell Center and Doherty Hall.

“Right now the campus has embarked on a major and massive recreation of the West Campus quad,” said Ralph Horgan, associate vice provost of Campus Design and Facilities Management. According to Horgan, the largest problem facing the new design process is the 90-foot drop between the Cut and the planned site for the Gates building.

Horgan’s goal is to create an open space that allows for visibility of the new building and also develops some unity for the first time between the upper and lower sections.

Separating the two spaces is a wooded area that is familiar to many students, especially art students taking Eco-Art or Environmental Sculpture with art professor Bob Bingham. The area is often filled with student sculptures, including a current piece featuring about 200 plastic baby dolls.

Sophomore art student Teresa Chen tied the dolls to the trees to protest a plan to change the site. Chen and some of her fellow art students don’t like the idea of removing the projects or the space as an area available for installing projects.

“There’s artwork in [the grove],” said first-year drama student Peter Albrink. “And it’s not a good thing that the artwork’s coming down for another building.”

Over winter break, workers removed some trees next to Doherty Hall in order

See TREES, page A4



Robert Kaminski/Photo Editor

U.S. Secretary of Commerce Carlos Gutierrez spoke at CMU’s Collaborative Innovation Center last Friday. In his speech, Gutierrez praised Carnegie Mellon for its innovation in launching start-up companies.

## Commerce secretary speaks at CMU

by **Greg Hanneman**  
*Copy Manager*

Three days after President George W. Bush announced a new initiative to keep the United States competitive in a global economy, one of his top officials came to town to discuss how Carnegie Mellon can be a part of it.

Commerce Secretary Carlos M. Gutierrez visited CMU’s Collaborative Innovation Center on Friday to promote

the American Competitiveness Initiative, announced by Bush during his State of the Union address last Tuesday night.

“To keep America competitive, one commitment is necessary above all: We must continue to lead the world in human talent and creativity,” the President said in his address. “Our greatest advantage in the world has always been our educated, hard-working, ambitious people — and we’re going to keep that edge.”

Gutierrez summed up the

initiative’s purpose in the beginning of his speech. “The idea is to encourage innovation throughout our economy, [to] encourage everyone to get excited about innovating, about creating new things, and ... about refocusing on math and science education,” he said.

Research in nanotechnology, hydrogen, and quantum information will be specifically targeted, Gutierrez said.

See SECRETARY, page A4



Crime & Incident

**Vehicle Collision**  
27 January 2006  
at 09:41

The president's office called and stated that an administrator's car was rear-ended by another vehicle on the second level of the East Campus parking garage. The guard who responded said the entering vehicle was on the bend when it struck the administrator's vehicle.

**Theft**  
27 January 2006  
at 14:11

A professor at the Tepper School of Business reported his wallet stolen from his office on January 25 and wanted to file a report. The complainant left his door ajar and his office unattended. He noticed the wallet missing after returning to his office.

**Liquor Law**  
29 January 2006  
at 00:05

A University of Pittsburgh student was sitting outside of HShirley Apartments. The actor was underage and visibly intoxicated. Police issued him a citation, and then escorted him back to Pitt.

**Liquor Law**  
31 January 2006  
at 03:57

Police responded to a group of three male students and one female student who were possibly intoxicated in the University Center. The group was questioned about the possible possession and consumption of alcohol. One member admitted to drinking and was issued a citation.

**Suspicious Person**  
31 January 2006  
at 00:18

An unknown man in a gray sweatshirt was reported as roaming through Mudge House. The actor stopped at a room and asked students for drugs or money. Police responded but did not see the male at that time on campus or in the vicinity. A crime alert was issued.

**Suspicious Person**  
31 January 2006  
at 05:07

A tall black man with a gray sweatshirt and jeans was let into one of the buildings in the fraternity quadrangle. The actor was looking for a fraternity member, saying that he had cigarettes for him. The fraternity brothers asked the actor to leave. The actor then said he was in the wrong building and appeared to leave. The fraternity members later found the actor hiding downstairs. The brothers escorted the actor through the rear exit.



Justin Brown/Photo Staff

“The Israeli-Palestinian Impasse: A Primer for Beginners”

Carnegie Mellon professor Laurie Eisenberg speaks on Middle Eastern relations in a lecture in McConomy last Monday. Eisenberg used many maps from different sources to give her audience a well-rounded understanding of the Israeli-Palestinian conflict. The presentation concluded with a question and answer session with the near-capacity audience.

StatisticallySpeaking

Since the United States Drug Enforcement Administration repositioned its resources to combat drug smuggling in other parts of the world, the number of illicit drug trafficking organizations in Mexico and Central America has increased. Aside from surgically implanting drug packets in human couriers, U.S. officials have recently discovered that smugglers in Colombia have resorted to placing packets of liquid heroin inside the bellies of live puppies.

Amount of land used to produce cocaine in Columbia, Bolivia, and Peru each year: 166,000 hectares

Percentage of cocaine smuggled into the United States via the southwest border: 65 percent

Number of arrests of drug traffickers through Operation Panama Express in 2005: 203

Average amount of heroin smuggled per human courier: 1.5 kilograms

Amount of illicit drugs seized through Operation Panama Express in 2005: 76,920 kilograms

Sources: [www.msnbc.msn.com](http://www.msnbc.msn.com), [www.dea.gov/index.htm](http://www.dea.gov/index.htm)

Compiled by  
Mercy Chang

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 following week's issue.

Former Pittsburgh mayor Murphy to give speech

**by Brittany McCandless**  
*News Editor*

Former Pennsylvania legislator and Pittsburgh mayor Tom Murphy will speak on campus today on a topic yet to be decided. Murphy's speech is at 4:30 pm in the Adamson Wing of Baker Hall.

From January 1994 to January 2006, Democrat Murphy served as Pittsburgh's mayor. His dozen years in office were what the *Pittsburgh Post-Gazette* called "roller-coaster governance," marked with controversial developments and fiscal issues.

During his mayoral term, Murphy saw the creation of PNC Park, Heinz Field, and the David L. Lawrence Convention Center. After the region's voters rejected a plan to fund the construction with a 0.5 percent

**Thomas Murphy**

Today, February 6, at 4:30 pm

Adamson Wing, Baker Hall 136A

sales tax, Murphy created an \$800 million plan that included Regional Asset District tax funds, state grants, a hotel levy, and private funds.

"The strategy was to grow Pittsburgh out of its budget problem," stated Rich Lord in the *Post-Gazette*. But while Pittsburgh added \$5 billion in taxable property values, the city only witnessed an increase of \$7 million a year in property taxes.

Murphy beat current mayor Bob O'Connor in the 2001 primaries but announced in December 2004 that he would not seek a fourth term.

**George Marsden**

Thursday, February 9, at 4:30 pm

Adamson Wing, Baker Hall 136A

Acting as one of Pennsylvania's presidential electors in 2000, Murphy served as a state representative prior to being elected mayor. He also spent two years in the Peace Corps.

George Marsden, history professor at the University of Notre

Dame, will give a lecture titled "How 'Otherworldly' American Fundamentalism became Political" on Thursday at 4:30 pm in the Adamson Wing.

American religion and culture, particularly the history of Protestantism, are among Marsden's academic interests. He has published numerous books, including *Jonathan Edwards: A Life*, which garnered awards such as The Bancroft Prize for Distinguished Books in American History.


Marsden received a PhD in American studies from Yale.

Both lectures are part of the University Lecture Series.

Science & Technology

7

**Robotics Institute**



Also:  
Pitt prof disproves Darwin  
How Things Work: Birth control

Forum

11

**I don't have a job or a care**



Also:  
NASA censors its own scientists  
Say What? Google sells out users

Sports

14

**Men's basketball**




Also:  
Sports in brief  
Athletes of the week

Pillbox

9

**Life and death of Dixmont**



Also:  
Napping: Part 2  
Darfur is dying



# Students, faculty gather to discuss diversity

by **Claire Morgenstern**  
Staffwriter

Are students tired of talking about the role diversity should play in their college experience? Not all of them.

Last Wednesday, undergraduate and graduate students alike joined faculty, staff, and members of the Board of Trustees at a town hall meeting to discuss the “Student State of Diversity.”

For 90 minutes, participants discussed what a diverse cultural climate on campus should look like. They wondered how to get students in segregated groups to interact and under what circumstances the interaction should occur.

The meeting served as a follow-up to President Jared Cohon’s annual “State of Diversity” speech in honor of Martin Luther King Day. Student Body Vice President Nicolette Louissaint moderated, with the help of Student Body President Tom Sabram.

Louissaint began by referring to the statistics Cohon mentioned

in his speech. “A lot of the conversations we have about diversity are about the numbers and how proud we are of them,” she said. “We want to talk about what we’re doing with the numbers and how they affect us.”

Participants debated how to create a diversity training program and how to foster more interaction between minority groups socially and academically. Analyzing why students are disinclined to diversify, participants reasoned that many students aren’t exposed to diversity prior to arriving on campus. They also speculated that students place the responsibility on others to make the first move and use the academic rigor of the institution as an excuse not to take an active role in making connections.

But, as some participants wondered, are we placing too much emphasis on creating a perfect microcosm of diversity on campus? For board member Lowell Steinbrenner, diversity has become “too heavy a burden.” He said that “diversity is a means, not an end.”

It appears some University officials agree. The January 26 issue of the *Chronicle of Higher Education* named Carnegie Mellon’s Summer Academy for Mathematics and Science as one of “Five Programs That Opened Their Doors To All Races.” Formerly named the Summer Academy for Minority Scholars, the program became open to all races beginning last summer. The program prepares minority students to pursue degrees in science and engineering.

“I think diversity is natural,” said Everett Tademy, director of CMU’s Equal Opportunity Services and secretary of the Diversity Advisory Council. “I think it’s what we are.”

The primary purpose of Wednesday’s meeting was to create practical ways to take advantage of the diversity of races, ethnicities, interests, ideas, and perspectives that are represented on campus.

The group pointed to other mandatory programs, such as CSW and AlcoholEdu, to assess the potential pros and cons of

a mandatory diversity course. They praised events like UC Fridays that bring the whole campus together on a social level.

“We need to make it so that students are not only open to, but value differences in other people,” one faculty member said. He suggested initiating more group academic projects, giving students the opportunity to gain more perspectives and ideas from people with different backgrounds.

No matter what, the group concluded, unless there is a way to impart to students all the benefits that diversity can bring, there is no way to force interaction upon them.

“We look for reasons not to try things because it might not be the solution,” one staff participant said. “And it probably isn’t — but we’re closer to finding the solution.”

Student government and the Division of Student Affairs co-sponsored the event, which kicked off February’s Black History Month events.

# Senate passes policy change with 1/3 vote

by **Elizabeth Schwartz**  
Production Manager

In a vote that narrowly passed, Student Senate approved a resolution last Thursday in support of the proposed amendment to the Student Rights Policy. In its revised form the amendment reads, “The third right of students is to have their work evaluated based on stated course and program criteria and appropriate knowledge of the subjects and disciplines they study, as outlined by the relevant faculty.”

Existing University Policy addresses the issues of “Mutual Trust and Respect” and “Fairness and Exemplary Behavior” is its section titled “Goals, Rights, and Responsibilities.”

The Academic Affairs Committee reworked the amendment’s wording after concerns were raised at a forum held last semester. Drafters of the original amendment used language from conservative activist David Horowitz’s Student Bill of Rights.

The resolution is another in many steps that former chair of Student Senate’s Academic Affairs committee Long Pham and current chair Michael Buetti have taken in the long and arduous process of making the amendment University Policy. The President’s Council makes the ultimate decision on changes to University Policy.

Only 24 Senators out of 29 were in attendance on Thursday, which raised many concerns among those who were there. Nine Senators voted in favor of the resolution, seven were against it, and eight voted abstention.

Junior Joseph Arasin, a computer science and history major who serves as a member of the Academic Affairs committee,

was disappointed in the disproportionate number of Senators abstaining. “A Senator should only abstain from a vote when he or she has a personal conflict of interest regarding the motion,” he said.

The close vote was indicative of the heated debate among the Senators. “There definitely was disagreement,” said Arasin, “but no hostility.”

— Joe Arasin,  
Student Senator

As per Student Senate bylaws, Student Body President Tom Sabram, a senior in chemical engineering, has 120 hours to veto the resolution. In an e-mail, Sabram responded, “I believe this resolution is premature and should have been tabled.... I am still unsure if I will pursue any further action.”

“If Tom feels that students were inadequately or inaccurately represented due to the abstentions, he should veto the motion,” said Arasin. “If he felt that Thursday’s vote was a valid representation, then he shouldn’t veto.”

Buetti and Student Senate chair Julie Beckenstein could not be reached for comment.

See editorial comment on page A2

# Professor’s program could reduce price of wine



Courtesy of Lorenz Biegler

CMU professor Lorenz Biegler created a computer model that could lead to cheaper wine.

WINE, from A1

efficiency more than anything else. “It’s an optimization problem, and that’s what I’m concerned with,” he said.

Modeling is already commonly employed in the petroleum and pharmaceutical industries to maintain quality control and cut costs.

However, it has made little inroads in the field of winemaking, due to the sheer complexity of the organic system.

“So far, most of the work has been in fitting models to data, rather than creating entire systems,” he said.

Modeling the yeast system is proving to be quite a challenge: A recent paper published by his group lists 40 simultaneous reactions — only a fraction of the true number.

Understanding the yeast

process will go a long way toward improving the archaic and haphazard methods of quality control currently employed.

For instance, in California, it is common for grapes to be harvested later, and for water to be added during fermentation to regulate alcohol content. Other wineries routinely add sugar during fermentation to sustain the process and improve taste.

Biegler is confident that his team will be able to unravel the chain of reactions, helping wineries around the world more effectively control the different steps of fermentation.

System optimization is nothing new to Biegler, who last year helped the U.S. Department of Agriculture create a network for monitoring contaminants in bodies of water.

“The problem in this system

is that there are thousands of nodes,” he said, pointing to a diagram of a municipal water network.

In fermentation the situation is similar, as there are hundreds of simultaneous reactions that must be accounted for.

To analyze large volumes of data, Biegler and his colleague Correa developed software based on the well-known package Matlab.

IBM has taken over future development of CMU’s software, while Correa’s contributions have been made available online for other researchers to use.

Biegler’s two-year collaboration with PCU has already proved fruitful, and may soon translate into cheaper wine and a better understanding of one of nature’s fundamental processes.

# Shadyside Flexible Leases

Live in Pittsburgh’s best neighborhood in the area’s only flexible leased building. Rent by the school year and have the freedom to go home in the summer without being locked into a lease. Rent either furnished or unfurnished. One half block from Walnut Street’s shops and restaurants.

**1 Bedroom Unfurnished  
\$759\***

Includes all utilities plus free High Speed Internet

**1 Bedroom Furnished  
\$1295\*\***

Includes everything, just bring a toothbrush

**412-441-4445**  
**fifthavesuites.com**

\* Minimum length of lease 9 months (two semesters)  
\*\* 3 month minimum stay required to qualify for this rate.  
24 hour service. Resident Manager. Parking Available.

## M.S. in Digital Imaging and Design

BRIGHT LIGHTS. BIG CITY.  
RADICAL MASTER’S  
DEGREE.

“THAT’S WHY I GO TO NYU.”



### Master of Science in Digital Imaging and Design

The world has become a digitally animated wonderland. From movies, to games, to science, news, business and medicine — creatively inspired professionals are in demand. Become one of them with this uniquely powerful Master’s degree from New York University’s esteemed Center for Advanced Digital Applications (CADA). Everything is “hands on” — whether it’s working with state-of-the-art equipment, interfacing with instructors who are industry leaders, or working in specialized 2-D and 3-D group projects that have you functioning in a team environment — exactly how the industry operates.

From managing every aspect of production output, to being inspired by a unique creative environment, this program is a Digital Bauhaus that will prepare you to take your place in Hollywood, at an East Coast boutique, or any of the new, emerging opportunities in the field. Contact us for more information, or visit our website to view a gallery of student work.

### Information Sessions:

- Wednesday, February 15, 6-8 p.m.
- Wednesday, March 22, 6-8 p.m.

NYU Midtown Center, 10th Fl., 11 West 42nd St. (btwn. 5th and 6th Aves.)

Please call the number listed to RSVP.

1-888-998-7204, ext.323  
www.scps.nyu.edu/323



New York University is an affirmative action/equal opportunity institution. ©2005 New York University School of Continuing and Professional Studies

## GINZA 긴자식당

239 Atwood • 412-682-9226

Korean/Japanese Cuisine



Karaoke  
•  
Party  
Room  
Available

Oriental Super

동양 슈퍼

#1 KOREAN FOOD SUPPLIER  
366 Atwood • 412-683-2041



# Students plan to bring back ZBT fraternity

ZBT, from A1

campus life, Mann feels ZBT means more than just future prospects. “It fills a void,” he said.

Warshaver explained that the bonding process of beginning a fraternity is greater than joining one already established. He also thought it important to make ZBT a fraternity that isn’t religiously exclusive.

First-year Justin Moidel is in the fraternity-browsing process. For Moidel, it is important to find a fraternity that embraces his Jewish heritage in such ways as serving kosher meals. At the same time, he’s looking for a fraternity that is welcoming of others. After attending ZBT’s meeting, Moidel thought ZBT might do just that. “[ZBT] would be a Jewish fraternity that would not be exclusive,” he said.

“As the founding fathers, we’re taking a risk,” said Mann. “[But] the benefit will far outweigh the risk.”

# U.S. Secretary of Commerce speaks at CMU

SECRETARY, from A1

In explaining how America can boost its advantage in the global economy, Gutierrez echoed much of the rationale Bush presented on Tuesday night.

“One of the things that we need to understand ... is that we can’t innovate and grow, and at the same time retreat from the world,” he said.

Like Bush, he also stressed the importance of open markets, affordable health care, and new energy sources.

Gutierrez, a native of Cuba who came to the U.S. with his family at the age of seven, drew a link between American ingenuity and immigration policy.

“We also need to recognize that our tradition of immigration and assimilation is a distinct competitive advantage,” he said.

“You’ve seen in other countries around the world how much trouble they’ve had with assimilating immigration, with just enabling immigrants to fit in and form part of the

“What’s being done here at Carnegie Mellon ... is a big part of our advantage as a nation.”

— Carlos Gutierrez, U.S. Secretary of Commerce

fabric of society. We know how to do that; we’ve been doing it for over 200 years.”

Gutierrez acknowledged that America’s multinational workforce provides an edge over other countries that have more homogeneous populations. “Immigration brings new ideas, new innovations, and new energy into our economy, and I see it right here in this university,” the secretary said.

Noting that Bush’s announcement had “excited the entire technology sector,” University president Jared Cohon discussed CMU’s strengths in a more general way, focusing on the University’s

reputation for conducting research.

“This university has very much embraced ... the idea in particular that the key for America’s continuing success has to be building on our strengths and being the best we can be when it comes to developing new products and new ideas,” Cohon said.

The secretary’s visit here included a number of technological demonstrations, showcasing CMU’s work in a variety of scientific domains.

Noting that CMU research projects have launched more than 70 start-up companies, Gutierrez stressed the importance of being able to transform

new ideas and concepts into viable commercial products.

“What’s being done here at Carnegie Mellon — the fact that there are businesses here sponsoring some of these projects, the fact that you’re using some government grants — that linkage and that teamwork, we believe, is a big part of our advantage as a nation,” he said.

Gutierrez said he was impressed with the University’s display of talent and research ideas.

“I think it’s just impossible to spend time here and not walk out feeling optimistic about the future of our country,” he said. “You are really setting an example of what can be done and why it is that we’re going to have a great, great 21st century.”

Yun Seong Song, a graduate student in mechanical engineering, was encouraged by the secretary’s positive response.

“The fact that he’s really interested in technology, especially at CMU, helps the University’s image,” Song told the *Pittsburgh Tribune Review*.

# Students protest removal of trees between Purnell and Doherty

TREES, from A1

to perform renovations to accommodate a new wing of chemical engineering classrooms, a new elevator and stairwell, and heating and cooling ducts. Seeing the removal of the trees, Bingham climbed and hugged the biggest of the trees wearing nothing but the hard hat required in the demolition zone.

“My heart just sunk,” Bingham said, recalling when he saw workers with chainsaws cutting down the trees.

“I went and got my hard hat on, and as I was walking back out I realized, I just have to do it. So I, you know, took my clothes off. I had my hard hat on.”

After Bingham shimmied up the biggest of the trees, the embarrassed workers backed off.

Bingham sees Campus Design’s plans to remove the trees as conflicting. “I’m supposed to be teaching environmental literacy to students and they come in and do things like this,” he said.

Though part of the Gates con-

struction, the removal of the remaining trees hits close to home for many students on campus who feel a personal connection to the area.

“I think [the trees are] good for the campus,” said Elena Goldstein, a sophomore environmental engineering student.

Likewise, the trees have an important environmental effect, as outlined in another art project that designated the area the Carnegie Nature Reserve. According to a large sign at the bottom of the grove, the area is comprised mostly of honey locust trees, a species that retain water well, helping to prevent flooding and erosion.

Bingham has proposed an alternate plan of installing a rain garden down the hill along the edge of the Purnell Center. The garden would be another example of biological engineering at work and would also help with flooding in Pittsburgh.

However, the plan is still up in the air. Some 100-year-old sewer pipes run under the park-

ing lot at the bottom of the hill, and Pittsburgh Sewer and Water warns that the old structures may not be able to support new buildings and landscapes.

Discussion of the several conflicts involved will continue tomorrow when the Campus Design and Facility Development department will meet with landscape architects and Bingham to discuss the design for the grove of trees and also the rain garden.

Connecting the upper and lower campuses is also a concern of both Campus Design and students. “It’s unfortunate that they have to cut it down,” said sophomore art student Spensor Longo, “but to make the campus itself function better, it can be seen, I think, as a positive thing.”

Nevertheless, it is a plan that Ralph Horgan wishes to tackle. “The vision is bold, the vision is big,” he said. “And I think from my perspective, the vision is right for where this campus is today and where it wants to grow.”

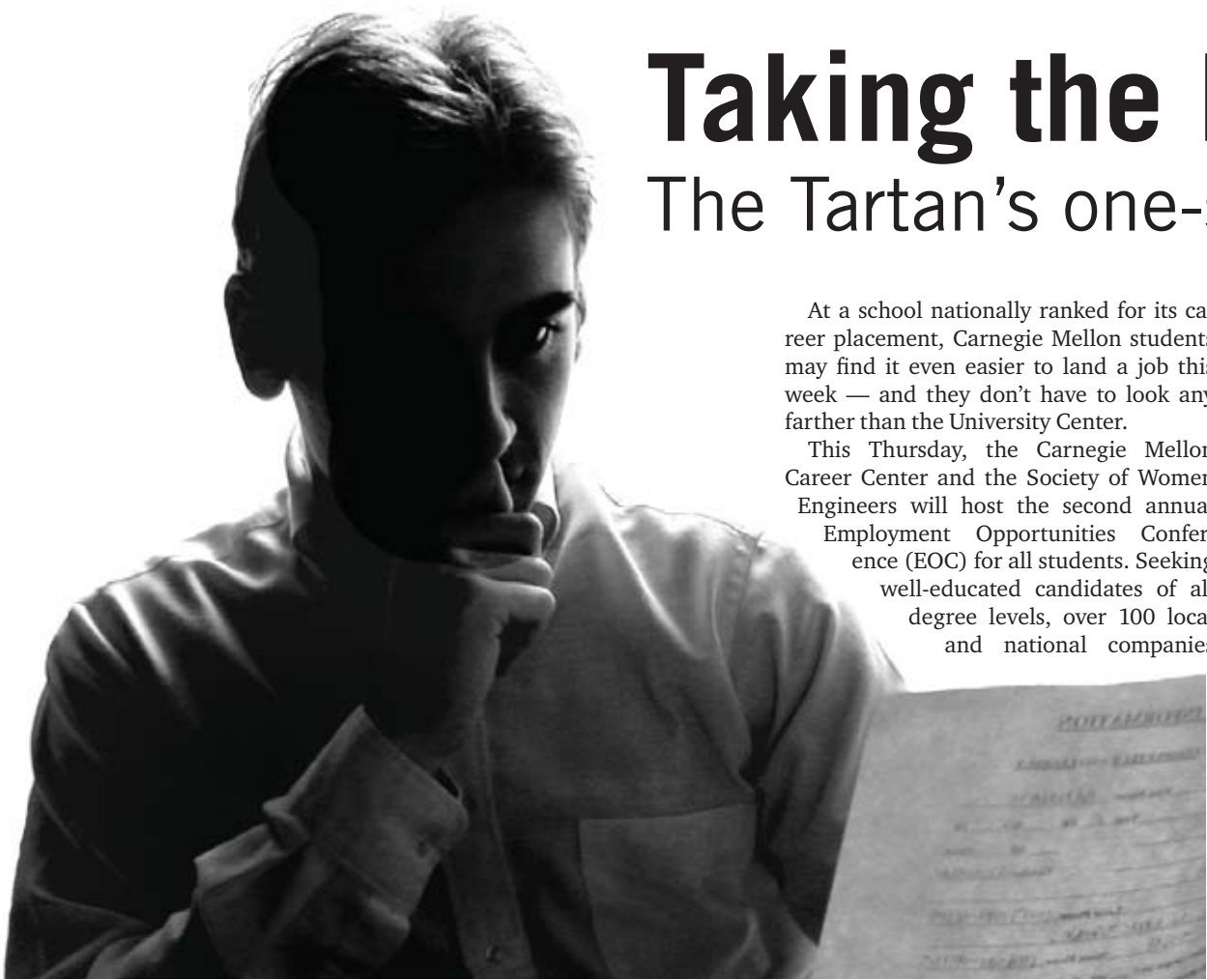


Justin Brown/Assistant Photo Editor

The trees in the grove between Purnell and Doherty will be removed as part of the Gates building construction. One art student placed nearly 200 baby dolls in the grove in protest.

The Mellon College of Science Honors Their Fall 2005 Dean's List!					
~ Congratulations - the faculty & staff of the Mellon College of Science are proud of your achievements ~					
We hope to see you at the Dean's List Dessert on March 27!					
<b>Biological Sciences</b> Asafu-Adjei, Denise Averbakh, Elena *Aveson, Victoria *Bagwell, Kenneth *Broadlick, Kelly *Chalfin, Heather *Chiapaikao, Katherine *Chin, Anna *Choi, Jae *Chu, Wing-Kit Conroy, Samantha *Costantino, Lindsay Cummings, Katherine *Dohar, Sheena Eimer, William Eytan, Danielle Gonzalez, Amanda *Gupta, Piyush *Hartwell, Michael *He, Shuo *Ho, Qirong Hsieh, Andy *Jocz, Jennifer Katumuluwa, Subhashini Kim, Se Jong Lam, Grace *Lam, Lydia Lee, Jongnok *Lee, Kristen Little, Anthony *Lord, Joshua *Lu, Andy *Maiorini, Elyse *Mallozzi, Carolyn Mehls, Linnea Mucci, Kaylan Nan, Jessica *Newby, Gregory O'Hara, Jessica *Oldenburg, Ian *Pai, Satyan Pamidimukkala, Nidhi *Parepally, Mayur Park, Narae Parks, Kimberly Patel, Bharat *Patel, Lina *Plank, Jennifer *Ramakrishnan, Satish Ranjan, Ashwini	Regan, Madeline *Remillard, Matthew *Rives, Abigail *Rizvi, Afshan Rose, Amanda Rosenblum, Hannah *Scholl, Jonathan Shah, Anjali *Shung, Sharon *Sims, Jason *Spath, Samantha Stefanski, Mark Stuckhardt, Leigh Su, Pin-Chuan Suh, Patricia Tang, Derek Tarnauskas, Colby Tsarenko, Alexandra *Vild, Cody *Weinberg, Jasper Weir, Natalie *Wheeler, Grace *Williams, Benjamin Zhang, Xue-Wei  <b>Chemistry</b> Abbondandolo, Cara Apollo, Frank *Banks, Jessica Barnett, Rebecca *Bentley, Jennifer Binte Gose Ahmad Sha, Halima Brashear, Deborah *Brooks, Samuel *Chang, Yusheng *Chen, Andrew *Cheng, Ryan Diabes, George *Gao, Guangzu Hashim, Suvana Huang, Henry Kabra, Nitin *Kamps, Amanda *Krankowski, Ashley Langille, Mark Lee, Jihoon *Lee, Robert *Lund, Paul Ma, You-Yun *Madsen, Peter Malecky, Ryan *Morelli, Brian	*Moussa, Laura *Naman, Charles *Otsuka, Mai Pascoe, Diana *Reitmeyer, Craig Shyu, Terry *Straub, Rachel Sydlik, Stefanie *Thompson, Kaylie *Wiltrout, Elizabeth *Yousef, Hanadie  <b>Physics</b> Bates, Jordan Berman, Noel *Bonnoit, Craig Bueti, Michael Byrne, Patrick *Capps, Charles *Carmody, Daniel *Cartoon, Daniel *Eckerle, Kate Gilroy, Sean *Greenwood, Alexander *Hallenbeck, Gregory Hays-Wehle, James Hernley, Aaron *Holland-Minkley, Dorothy Kempe, Karl King, Joshua Lin, Kevin *Maruca, Bennett *Mehaffey, Steven *Mercer, Quinten *Newman, Brian *Ongmongkolkul, Piti *Raja Ahmad, Raja Mohd Hafiz *Rosenman, Michael *Ruangsri, Uchupol Rubin, Denis *Russo, Antonio *Schiffrin, Joshua Shavit, Tamar Smout, Shawn Sorenson, Erik *Stahlman, Jonathan *Suksombat, Sukrit Wang, Paula Wegrzyn, Christopher *Weyant, Anja *Yang, Li Yealy, Christopher	<b>Mathematical Sciences</b> Allen, Emily *Bernstein, Taijiro Brosbe, Benjamin Deforest, Mary Grace Dhingra, Justin Dulles-Coelho, Avery *Farooque, Preeti *Fields, Mark *Fontaine, David *French, Lindley *Grisafi, Jason *Gross, Jonathan *Grosse, Philip Herman, Eric *Hu, Justin *Hudson, Daniel *Klobusicky, Joseph *Leary, Brian Mirabito, Christopher *Nettayanun, Sampan Nguyen, Tran-Chau Novak, John O'Dwyer, Arthur Poon, Patrick *Sikora, Jocelyn Spiro, Matthew Techapongtada, Pawat Wasson, Michael  <b>MCS Undeclared</b> *Ahmed, Anna Bystritskiy, Sergey De La Vega, Oscar *Ding, Fiona Domville, Gregory Fung, Kirstie Ghosh, Debthirto *Hofler, Ryan *Hsu, Eric Jennings, Charlotte Lazrus, Robin Li, Ruosi (Tommy) O'Hallaron, Joseph Poon, Andrea *Retotar, Allison Seminatoro, Michael *Sieberg, Ryan *Sitrin, Jonathan Swarr, Tyler	<b>Science &amp; Humanities Scholars</b> Aggarwal, Shreya Applegate, Douglas *Ascher, Rebecca Barnett, Reid *Beaty, Christine *Belardi, Brian *Berka, Justin Brown, William *Chan, Gerentt *Chan, Kelvin *Chang, Mercy Chern, Christina *De Grace, Marciela Devaraj, Vivek *Eldred, Christopher *Friedlander, Tamara *Goldman, Aaron *Hallinen, Nicole *Hasumi-Dickison, Daniel *Hegde, Niyathi *Heidary, Behesht Heller, Cara Hidayat, Vivien *Hoffman, Kristan *Johnson, Stephanie *Jones, Randall *Khan, Mustafa *Kicielski, Kimberly *Kim, Priscilla *Koscielniak, Zofia *Krogh, Lauren *Lee, Woonghee Lee, Wynee Lewis, Bridget *Lin, Stephanie *Lindsey, Robyn *Liu, Ran *Livesey, Kristen *Mancini, Christopher *Mandalaywala, Monisha *Martz, Rebecca McCarren, Hilary McMullen, Roderick *McQuiston, Jessie Menefee, Ryan Mogin, Sarah Molz, Ashleigh *Morrison, Nathan *Myers, Theresa *Nehrbass, Gabriel	*Nguyen, Henry *Niedelman, Wendy Orgera, Alexandra Park, Hyun Sun *Patel, Nisha *Ramnath, Rohit *Reddy, Shilpa *Rinehimer, Jared *Rothenberg, Joshua *Rush, David *Schaeffer, George *Scudera, Catherine *Setty, Nithya *Shaw, Michael Shrecengost, Elizabeth Srivastava, Neetika Steiner, Jacqueline *Stock, Nathan Tang, Wei *Taylor, Sarah Tempel, Caulder *Thorpe, Lauren *Tice, Brian *Tomesch, Claire Tucker, Eileen *Visbal, Eli *Wallat, Katherine *Walsh, Daniel Wang, Shuo-Jia *Wenger, Jared *Wilson, Margot Winn, Jessica *Worbs, Leah *Yang, Chao *Yao, Lindsey *Young, Andrew *Zeledon, Mariela  <b>Bachelors of Science &amp; Arts</b> *Bradford, Jeremy *Chow, Michael *Kaufmann, Max *Klein, Adina *Kupin, Elizabeth *Ma, Jasmine *Margolskee, Alison
<b>Dean's List Criteria:</b> Only students earning a quality point average of at least 3.5 while completing a minimum of 36 factorable units are eligible for the Dean's List. Those earning a quality point average of 3.75 are eligible for the Dean's List with High Honors (denoted by *).					





Haseeb Quareshi/Assistant Business Manager

# Taking the EOC by the reins:

## The Tartan's one-stop tip guide

by Brittany McCandless, Evan Sundwick, Haseeb Quareshi & Greg Hanneman

At a school nationally ranked for its career placement, Carnegie Mellon students may find it even easier to land a job this week — and they don't have to look any farther than the University Center.

This Thursday, the Carnegie Mellon Career Center and the Society of Women Engineers will host the second annual Employment Opportunities Conference (EOC) for all students. Seeking well-educated candidates of all degree levels, over 100 local and national companies

will be stationed throughout the University Center's Rangos Ballroom and Wiegand Gymnasium from 1 to 6 pm.

Participating companies include Allstate Insurance, Amazon, Compunetix, Expedia, IBM, Maya Design, Mellon Financial, and Toyota.

Unlike the fall's Business Opportunities Conference, which catered to business and economics students, or the Technical Opportunities Conference, which focused on engineering and computer science, the EOC is a career fair for students from all colleges. Whether you are seeking an internship or full-time employment, the EOC can assist in your endeavor.

The Career Center recommends that participating students dress in business professional attire, bring several copies of their résumé, and wear nametags on the right lapel of their suit jackets. Pre-registered students can pick up their nametags from 9 am to 6 pm in UC Wean Commons. Not pre-registered? Don't worry — you can register on Thursday and receive a hand-

written nametag.

To prepare for the EOC, students can attend the Career Center workshop "Preparing for Job Fairs" today in UC Rangos 3 from 4:30 to 5:30 pm.

Students in the College of Fine Arts, don't despair — there is a college fair specifically for arts students on Tuesday, February 21. This year's annual CFA job and internship fair, "Making A Living, Living Your Dream 2006," bring together students and employers in all artistic fields, including art, architecture, design, arts administration, theater, and music.

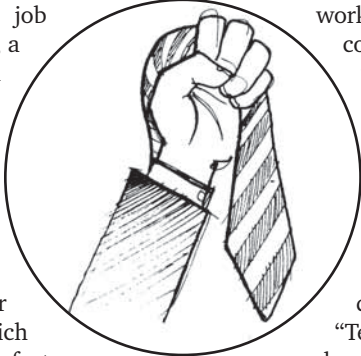
Interested students should register with the Career Center by Wednesday February 15.

In the meantime, the EOC is a great opportunity to network, spread your résumé, and gain valuable experience in a professional setting. In this guide, we have collected some tips and tricks to help you get the most out of this amazing resource. So practice your handshake, refine your résumé, and read up.

## Prepare yourself

**Do** make sure you are well-groomed and are wearing appropriate attire. You'll be briefly meeting recruiters, so how you present yourself will be an important part of the impression you make on them. Guys, a clean shave and haircut are essential. Also, a well-tied tie, clean shirt, and pressed suit are

important in job fairs. For girls, a nicely pressed suit and a tasteful top make for an impressive image. And for both guys and girls, wear clothes in which you feel comfortable and self-confident.



**Don't** spend time criticizing or disparaging your previous employment. It is almost certain that you will be asked about your past work experience, and you don't want to answer with a long tirade about how your former boss had the IQ of a jar of mayonnaise. When discussing old jobs that didn't work out, it's better to concentrate on what you learned from the experience or how it helped refine your long-term employment goals. Your less-than-perfect work history can also be useful fodder for the dreaded "Tell me about a time when things didn't go as you'd planned" question.

## Present yourself

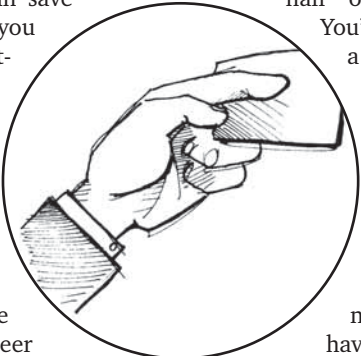
**Do** look up some information about the company you will be interviewing with. This can be as simple as visiting the company's website and browsing through it. Find out how the organization is divided, and learn about the functions of each one. Try to absorb some of the company's culture, and then ask specific questions about it during the interview. You don't need to show the recruiter that you're a walking encyclopedia, but displaying some background knowledge expresses that you care enough about the interview to prepare for it.



**Don't** give recruiters a dead-fish handshake. Nothing spells bad first impression like a limp, floppy greeting. A handshake can tell recruiters volumes — how confident you are, how excited you are to be talking to them, and how well you might fit in. A firm handshake and direct eye contact will go a long way toward helping your case. Don't be intimidated — these people want to pay you lots of money to work for them.

## Act professional

**Do** make sure you have business cards and plenty of résumés prepared. The last thing you need is for recruiters to misread your poor handwriting on interest forms and mailing lists. A business card can save you time and help you hit more recruiters faster. Don't overdo it, though; being too eager to hand them out might make you look cocky. A fine-tuned and error-free résumé is a must; be sure to stop by the Career Center today at 3 pm to go to their information session, or schedule an independent meeting with your career center representative.



**Don't** sit off on the side of the room gossiping with your friends. Save the small talk and the tales of who got drunk last weekend for when you get back to your residence hall or apartment. You're here to find a job, and you never know who might overhear something. As laid-back as some companies purport to be, none of them have much interest in hiring someone they expect to throw back a few Iron Citys over lunch break. Keep it professional and you'll appreciate it later.

the tartan ONLINE

Your roommate can't steal this copy.

www.thetartan.org

the tartan ONLINE

Carnegie Mellon's Student Newspaper Since 1906

home news sci/tech forum pillbox

Search Archives GO

January 30, 2006 — Volume 100, Issue 15

Advertising | About Us | Contact Us

### The West Campus Gateway

### Casino proposed for Pittsburgh

**NEWS** | Pittsburgh has an urban redevelopment plan in the works to enhance students' city experience. Competition for Pittsburgh's lone slots license... »

### Desanctified churches get new life

**PILLBOX** | Everybody knows the ubiquitous signs outside churches: schedules for Sunday services, inspirational quotes from the Bible, and advertisements... »

### Wecht indicted for trading corpses with Carlow

**NEWS** | Cadavers now have bargaining power. Celebrity forensic specialist and Allegheny County medical examiner Cyril H. Wecht announced his resignation... »





Some think  
new name.

**We think  
new global  
opportunities.**

Credit Suisse First Boston is now Credit Suisse. By operating as a single brand, with a single global vision, we can provide you with more opportunities than ever before. Your vision brought you to one of the world's most respected educational institutions. Now be a part of one of the world's most respected financial institutions. Credit Suisse is looking for individuals who are interested in learning about investment banking from a uniquely international perspective. Check out how you can fit in and stand out at Credit Suisse.  
[www.credit-suisse.com/standout](http://www.credit-suisse.com/standout)

Credit Suisse | Thinking New Perspectives.

CREDIT SUISSE 



# Research Profile: The Robotics Institute

## An Insight into the Matsuoka lab

**Introduction**  
by **Hanadie Yousef**  
*Science & Technology Editor*

Welcome to one of SciTech's two new sections: Research Profiles. To help you get better acquainted with the exciting research being conducted right under your noses, the SciTech staff put together this section. This way, you may get a better sense of the kind of research or profession you might want to get into after college or the kind of undergrad research you might want to pursue here at CMU.

This week and next, SciTech will be featuring the Robotics Institute. Dr. Yoky Matsuoka is an assistant professor in the Robotics Institute. Her lab focuses on research and development in neural control of movement, brain-machine interface, and devices for rehabilitation, motor enhancement, and entertainment.

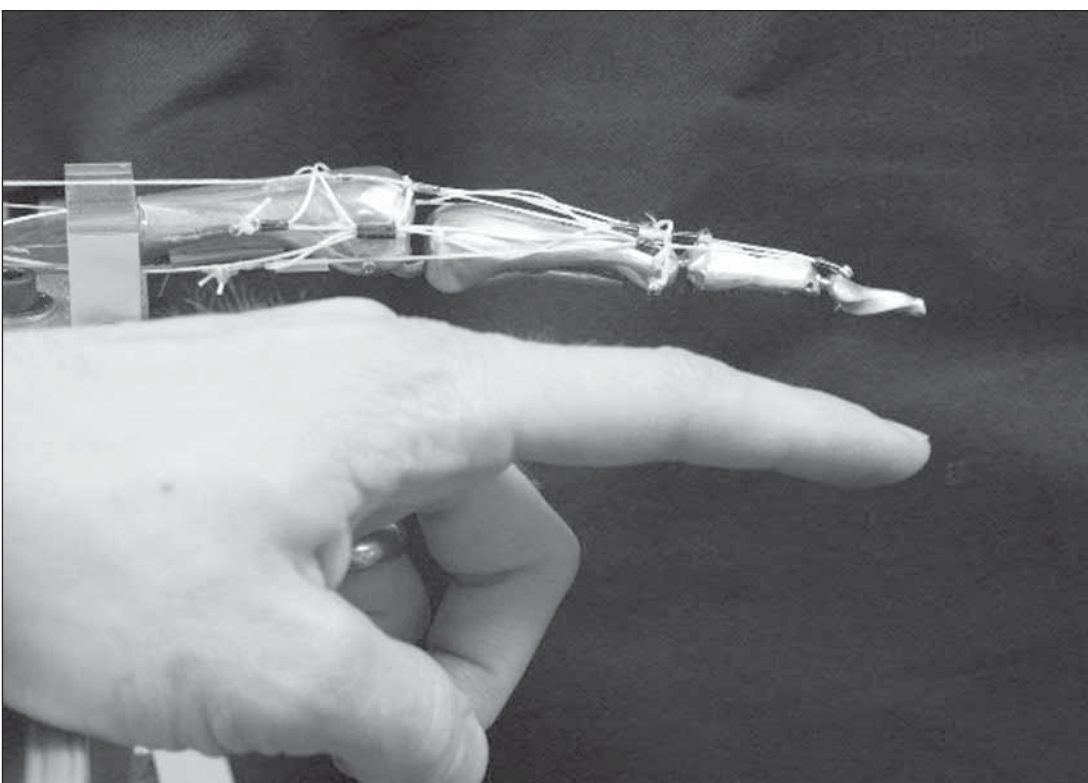
The research projects described in this feature are amazing — the Matsuoka lab is standing at the crossroads of biology and technology, making technological devices that will enhance human life. To be able to use robotics to enhance human sensory and neurological systems seems almost imaginary, like something out of science fiction.

This research would not be possible if it did not incorporate the knowledge and skills of multiple disciplines. "In the Neurobotics lab we aim to help

patients with neurological injury through robotic rehabilitation, direct neural interface, and neurally-based prosthetic control. This involves the collaboration of electrical, mechanical, and biomedical engineers; medical doctors; and many others," said Pedram Afshar, an MD/PhD student in the Neurobotics lab.

"People who do best are those that want to learn more about other disciplines. They can really integrate each other's knowledge," said Mike Vande Weghe, a research programmer. "Even if no one person has the necessary skills, having the curiosity to be open and learn from people with other skills makes it much more fun. You get much more out of it. Sometimes you don't know how well you know something until you have to explain it — this lab has really shown me that."

The research being conducted in this lab is very promising for patients with physical disabilities. As Matsuoka put it, "My work will allow disabled and elderly people to live richer and more independent lives. Those who have physical paralysis will be rehabilitated under virtual robotic environment. Those who cannot be rehabilitated will be provided with assistive devices that allow them to reach and manipulate objects better. Those with primitive prosthetic devices may be given an opportunity to use much more natural replacement of their limbs. Maybe those disabled and elderly people can one day participate in sports or go back to work where it wouldn't have been possible without the



Above is the Anatomically Correct Testbed Hand (ACTH). Begun in 2002, the development of the ACTH will serve as a model to better understand the coordination of the hand via brain signaling.

neurobotics technology."

Read on to find out more about the various technologies being developed in the Matsuoka lab.

**Neurobotics Laboratory**  
by **Saravana Sivasankaran**  
*Junior Staffwriter*

CMU's Neurobotics Laboratory focuses primarily on building robot-human closed-loop systems that alter the neural control of movement as a way to rehabilitate, assist, and enhance human motor control and learning capabilities. The beneficiaries of the research that goes on here are people with strokes, spinal cord injuries, traumatic brain injuries, and other injuries that inhibit daily activities. Besides these, the Neurobotics Laboratory's work also has applications in sports medicine, the military, and entertainment.

Currently, efforts are focused on developing a passive rehabilitation device to help stroke patients. The idea behind such a device stems from the fact that neural pathways will start to regrow after an accident or time of dormancy if they are stimulated. Stroke patients tend to give up using the affected body part. Doing so, however, could dramatically increase the time it takes to recover from the stroke. "Instead of people learning to work around a disability and never regaining control, this device will help them to regain functionality.

Their recovery would be sped up by a safe, passive robot that could guide them," said Wegh.

This device would tie in with the ongoing Feedback Distortion for Rehabilitation project, which combines the repetitive movements of robotic therapy with visual feedback distortion. Simply speaking, when an individual performs a task repeatedly, his or her performance on a given attempt is predicted largely by the previous performance. If feedback received by the individual is distorted so that the level of performance appears less than the level previously achieved, the individual will improve performance until the feedback indicates that the previous performance level has been reached.

The lab's current projects also include Sensory Transfer Systems for the Sensory Impaired. The purpose of this project is to construct a sensory transfer system to assist and enhance the manipulation abilities of the sensory impaired. This system consists of two parts — an array of sensors worn on the arm and an array of actuators worn on the face or neck. The system senses the pressure exerted on the hand by various objects and transfers that pressure to a location from which a patient still receives sensory information.

The Silicon/Neuron Interface is another project that focuses on creating chronically implantable neural interfaces that may be

used to control external devices and replace lost sensory input. Research currently focuses on conductive polymer coatings, to promote more intimate connections between cells and metal electrodes, that could eventually lead to a device that would be safe for long-term use and that would produce low-noise chronic single-unit recording.

Researchers working for the Neurobotics lab are also working to gain a better understanding of neuromuscular control. One way of doing this is through reading electrical signals from the brain and doing experiments to better understand how the brain manages motor control. In this regard, Alik Widge has been working on the development of biologically-friendly materials that make up the neuron detectors. These detectors can serve as bi-directional transmitters, allowing the user to read incoming electrical signals from the body and also send electrical signals of their own.

Pedram Afshar's research into understanding how the brain controls the human hand uses a different method with the same underlying principles. "I am working on the neural control of movement project," Afshar said. "My research has two goals: (1) figure out how the brain solves the problem of human hand control and (2) design engineering strategies for brain controlled hand prosthetics."

See ROBOTICS, page A9



The Matsuoka lab has constructed a robotic environment to combine the repetitive movements of robotic therapy with visual feedback distortion.

# How Things Work: Birth Control Pills

**Kathy Chiapaikao**

According to research done by the National Center for Health Statistics, 53 percent of women aged 15 to 24 that use forms of pregnancy prevention choose to use birth control pills.

There is more to a birth control pill than just a circle of color. Each pill contains a special ingredient. When it is taken every day, the birth control pill has the power to prevent a woman from becoming pregnant. How can birth control pills possibly prevent the fertilization of an egg?

Normally, pregnancy occurs when an egg in the uterus is fertilized by a man's sperm. The pill prevents ovulation by fooling the body into believing that it is pregnant.

During menstruation, the pituitary gland secretes follicle-stimulating hormone (FSH) and luteinizing hormones (LH) in response to gonadotropin-releasing hormone (GnRH) from the hypothalamus. FSH stimulates growth of the follicles, the cells in the ovary that release the egg. This in turn stimulates the secretion of the hormone estrogen. As estrogen levels rise, there is an increase in LH concentration, which causes ovulation — the release of the egg. The levels of estrogen and the progesterone hormone rise,



Courtesy of wordnews.org

which in turn inhibit the secretion of FSH and LH.

The birth control pill contains hormones that work with the body's natural hormones to prevent pregnancy by putting a stop to ovulation. It suppresses the natural hormones in the body that would stimulate the release of an egg. The most common pill, called the combination pill, consists of the hormones estrogen and progesterone. These synthetic hormones negatively feed back to the pituitary gland and inhibit the normal cyclic pro-

duction of hormones that stimulate ovulation.

Estrogen stimulates the pituitary gland to produce a hormone called prolactin. Prolactin inhibits the release of GnRH, which halts the secretion of LH and FSH. These hormones are responsible for ovulation, so prolactin effectively prevents the release of the egg. If there are no eggs to be fertilized, pregnancy is impossible. Progesterone thickens the cervical mucus, hindering the movement of sperm, and prevents the uterus's lin-

ing from developing normally, making implantation of an egg very unlikely.

Birth control pills also result in lighter periods due to excess progesterone. The progesterone causes thinner uterine walls and thicker cervical walls, which make it difficult for sperm to travel. Both ovulation and the normal lining of the womb, which is normally meant to prepare for egg and sperm implantation, are inhibited. When menstruation occurs, there is no excess lining to be shed.

In a 28-tablet packet, the first

21 days contain the active pills, or the hormones. If the tablets are arranged in three different colors, each color indicates the different amounts of hormones in each pill. The last seven tablets contain iron or an inactive ingredient. They are not birth control pills and serve the purpose of continuing the cycle of taking a pill each day. Menstruation occurs during the period of these seven days.

There are other types of birth control pills. In a 21-tablet packet, one pill is taken daily for 21 days. There is also a 91-day tablet packet. Another type of birth control is the minipill, which contains no estrogen. It inhibits the egg's ability to travel through the fallopian tubes, prevents the sperm from traveling up the cervix, and therefore suppresses the sperm's ability to unite with an egg.

There are many advantages to birth control pills. They greatly decrease menstrual cramps and reduce blood loss and PMS symptoms. Plus, at a young woman's age, it isn't time to be worrying about pregnancy. But birth control pills also carry many disadvantages, which include the expenses for the pills, possible side effects of headaches or depression, and having to remember to take the pill every day.

Bottom line: Choose wisely and be safe!

# SciTechBriefs

## Lawsuit filed against Grand Theft Auto

The *Grand Theft Auto* video game franchise recently ran into trouble when Los Angeles city attorney Rocky Delgadillo filed a lawsuit against Rockstar Games and Take-Two Interactive, the game's parent companies. Hidden content, including pornographic and adult-only material, sparked the lawsuit. Delgadillo claims the companies engaged in misleading marketing statements and competition by not fully disclosing game content. Its mature and often violent gameplay caused many retailers, including Wal-Mart and Best Buy, to pull the game from its inventory after the game's Mature rating changed to Adults Only.

Source: *CNN.com*

## Australian lifeguards get detection cameras

A lifesaving technology may soon launch at the beaches down under. Australian Steve Greene, of Griffith University, developed a motion-detecting camera system that specializes in tracking human motion. The system's goal is to detect and track swimmer behavior and to alert lifeguards whenever swimmers drift beyond flagged areas. Green hopes to advance the system enough to ensure accurate imaging. Expect a system release within two years.

Source: *australianit.news.com.au*

## Modern car turns 120

The 1886 Benz Motor Car patent by carmaker Karl Benz is considered the birth of the modern car era. The patent describes a "vehicle with gas operation," featuring modern engine designs, such as a single-cylinder, four-stroke engine; water-cooled radiators; and electric ignition. Gottlieb Daimler and Wilhelm Maybach demonstrated the first engine-driven carriage that year and formed the industry carmaker Daimler-Benz. Daimler's death in 1900 inspired Maybach to develop a world-class vehicle, named Mercedes, which became the benchmark for all modern car designs.

Source: *Autoblog.com*

## EarthLink in Philly

Internet service provider EarthLink Inc. finalized a 10-year deal on Monday, January 30, to provide public wireless access in the city of Philadelphia. The city was the first major metropolitan area to announce plans for free wireless Internet access. Low-cost service fees, starting at EarthLink's wholesale \$9 price to retail Internet service providers, would allow poorer residents to access the Internet. The City Council reviews the contract this month, and construction begins immediately upon approval. Expect full, city-wide service by spring 2007.

Source: Yahoo! News

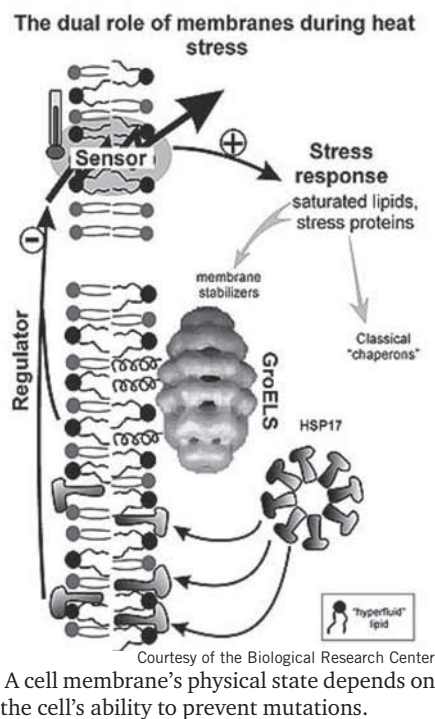
## Microsoft proposes cell phone solution

The Big M has stepped up the heat on the One Laptop Per Child program by introducing the idea of a program that utilizes cell phones as full computers. This move is in response to MIT's Nicholas Negroponte's \$100 laptop program, which targets the poorer nations of the world to increase access to technology using the affordable laptop. Microsoft has begun to promote the idea of a smart phone that is more practical. Bill Gates' big push comes in part from Negroponte's rejection of using the Windows platform on his laptops and may allow Microsoft to become a major player in the cellular telecommunications industry.

Source: *The New York Times*



# Pitt professor's theory of evolution argues against Darwin's theory



by **Jaisen Bell**  
*Junior Staffwriter*

Dr. Jeffrey Schwartz of the University of Pittsburgh and Dr. Bruno Maresca of the University of Salerno published a paper January 30 in the *New Anatomist* showing how the emerging understanding of cell structure supports the Pitt professor's theory of evolution.

In the beginning (1859), Darwin created evolutionary theory. This theory was based on the belief that organisms gradually evolve. The premise behind this theory was that living things evolved based on selection of the fittest, inheritance, and variation. Darwin's model of gradual evolution was very limited in explaining novelty — simply put, the emergence of new things.

For this reason, Schwartz outlines the limits of Darwinism in his book *Sudden Origins*. If one looks at fossil records, there is little evidence supporting a gradual change. On the contrary, evolu-

tion is often a sudden occurrence, starting on the cellular level. Animals did not gradually form teeth, for example; they were just there. In the same vein, it would be impossible to say that reproductive organs gradually came about. These jumps cannot be accounted for through Darwinism. Darwinism does not account for how organisms came into being, just how organisms survive.

The last 20 years of evolutionary biology show that organisms share the same regulatory molecules. According to Schwartz, there is no change at the molecular level. Rather, provoking novel features is all a matter of the timing of shuffling cards. For instance, the same regulatory gene that accounts for certain segments of the brains of vertebrates accounts for the spots on a certain butterfly.

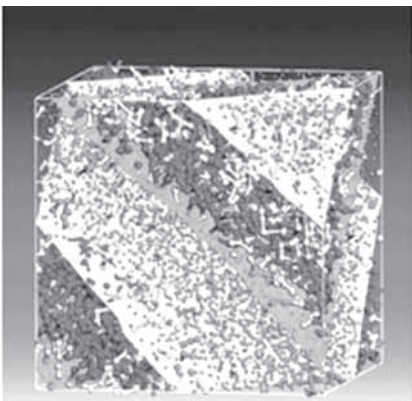
This brings us to the research done by Maresca regarding stress proteins. There exists in the cell membrane a number of stress proteins that prevent mutations or possible errors from occurring.

The cell membrane's physical state (MPS) depends on the cell's ability to handle such errors. The cell's competence is reliant on the temperature and/or diet available to it.

In general, stress proteins are able to sustain a balance within five degrees of the given environment. If a greater shift occurs, the stress proteins will most often become over-worked, resulting in the demise of the organism.

Plants are able to adapt to a change in temperature in about two months. If a sudden change occurs, however, the organism must rely on its heat shock response (HSR) to accommodate this change. If the sudden change is too much, the HSR is not able to cope and the MPS becomes too greatly disturbed, leading to the death of the organism.

An example of this would be a person's response to the change in weather. When a human is exposed to a slight change of temperature, it is unpleasant for a while. However, after a couple months the body adapts to the weather



Courtesy of Jeffrey Schwartz

Stress results in disruption of the organization of a cell's lipid membrane.

and it is then considered normal. If that same person were suddenly exposed to severe heat or cold, he or she would die shortly due to the body's inability to cope with such drastic change.

Such phenomena lead to mutations,

See EVOLUTION, page A9

# Experiment of the week: neutron activation used for material analysis

by **Sean Conroy**  
*Staffwriter*

Welcome to SciTech's new "Experiment of the Week" section. The science staff at The Tartan has noticed that a lot of exciting science occurs at CMU and around the world that no one hears about. Our hard-working staffwriters hope to change that by featuring exciting experiments or research techniques that you're probably not familiar with, from zero-gravity research aboard the "Vomit Comet" to NASA's Gravity Probe B to the Mars Science Laboratory's neutron activation. In fact, neutron activation is the first topic in this series.

Deep in the bowels of Doherty Hall there is a small locked room. In this room is a barrel that contains a small amount of plutonium. Plutonium may be the stuff of nuclear bombs, but it can also be used for neutron activation. This elegant physics technique is based on the idea that when atoms in any material are artificially made radioactive, photons

of specific energies are released. Since the photons that an element is likely to emit are already known, neutron activation can be used to determine the composition of an unknown material.

So how does it work? To make a material radioactive, a source of neutrons is needed. Since neutrons have no electric charge, they are hard to obtain, but physicists have developed an ingenious way around this problem. When plutonium decays into uranium, it releases a type of radioactivity called an alpha particle. If this alpha particle is absorbed by the element beryllium, the two combine to make an isotope of carbon. And as this unstable carbon isotope decays, it releases a high-energy neutron. We have our neutron source!

Unfortunately, high-energy neutrons are fairly useless, since they are moving too fast for a target material to absorb them. To slow them down, the neutrons are passed through graphite, water, or wax, all of which have lots of protons. The neutrons bounce around among the protons, eventu-

ally slowing down enough to be absorbed.

When a target nucleus absorbs these "thermal" neutrons, the target becomes radioactive and decays, emitting photons of various energies in the process. Scientists have become very good at gauging the energy of photons and, using the measured "spectrum" that the radioactive target emits, they can predict the composition of the target material.

So what is neutron activation used for? NASA is going to use it to look for water on Mars. The new rover planned for 2009 will carry a neutron activation apparatus built by the Russian Federal Space Agency to look for hydrogen. The device will be used to detect water, which will be indicated by high hydrogen readings.

In 1979, Luis Alvarez and his son Walter Alvarez used neutron activation to claim that a 10-km asteroid had collided with Earth 65 million years ago. The element iridium is very rare on Earth, but the Alvarazes had detected unusually large quantities



Courtesy of www.nasa.gov

A NASA rover, scheduled to go to Mars in 2009, will be equipped with a neutron activation apparatus to detect hydrogen-rich water molecules.

of the metal in the Cretaceous-Tertiary boundary of the Earth's crust. When Alvarez realized that the high concentration could be

due to a huge dust cloud from an asteroid impact, he predicted that iridium would be found in similar concentrations across the

globe. Experiments at over 100 sites across the globe confirmed this, and the cause of dinosaur extinction was found!

TOYOTA

\$400 OFF

ANY NEW TOYOTA OF YOUR CHOICE\*

AS A COLLEGE GRAD, YOU MAY BE ELIGIBLE!

\*NOT ALL CUSTOMERS WILL QUALIFY. CUSTOMERS RECEIVE \$400 FROM TOYOTA TOWARDS LEASING OR FINANCING THE PURCHASE OF NEW UNTITLED TOYOTA MODELS THROUGH PARTICIPATING TOYOTA DEALERS AND TOYOTA FINANCIAL SERVICES. SEE DEALER FOR DETAILS. COLLEGE GRADUATE PROGRAM IS SUBJECT TO CHANGE OR TERMINATION AT ANY TIME.

TOYOTA

COROLLA

S

STANDARD FEATURES:

MACPHERSON STRUT FRONT SUSPENSION

+ AM/FM/CD WITH 6 SPEAKERS

+ SIDE ROCKER PANELS

+ 38 MPG HWY†

= YOUR NEW CAR

AS SHOWN \$17,360\*\*

†EPA ESTIMATED MPG FOR 2005 COROLLA S MODEL 1812 4 SPEED AUTO. ACTUAL MILEAGE MAY VARY. \*\*MSRP FOR 2006 SPORT MODEL 1812 EXCLUDING TAX, TAGS AND LICENSE FEES. DEALER SETS FINAL PRICE.

buyatoyota.com

TOYOTA | moving forward ▶

Join The Tartan. Write for Science & Technology. Send an e-mail to [scitech@thetartan.org](mailto:scitech@thetartan.org) for more info.

Student

Sitters

Earn Extra Cash! \$10+ per hour for jobs near campus or home [student-sitters.com](http://student-sitters.com)

Session One: May 22-June 30  
Session Two: July 5-August 11

COLUMBIA UNIVERSITY

Summer Session 2006

Make the most of your summer by living and learning in the most vibrant, cosmopolitan city in the world. Columbia offers hundreds of courses for credit in over thirty-five disciplines, taught by distinguished faculty and eminent visiting professors.

[www.ce.columbia.edu/summernyc](http://www.ce.columbia.edu/summernyc)

MAJOR BLOWOUT SALE!  
ONE DAY ONLY!  
BLUESDAY, Feb. 7th

London

R/T air from \$150

Frankfurt

R/T air from \$150

Sydney

R/T air from \$730

Rome

R/T air from \$190

Paris

R/T air from \$199

London to Paris

from \$20 on Eurostar

It's Got Your Back.

Prices subject to change and availability. Taxes and other fees are not included. All prices good on 2/7 only. London, Rome, Paris and Frankfurt valid for departure through 3/13. Sydney valid for departure 8/1-9/15. All airfare is out of Pittsburgh, PA. Eurostar price is one way. CST #1017560-40

Call or come in Feb 7th:  
118 Meyran Ave  
(412) 683.1881

KAPLAN TEST PREP AND ADMISSIONS

YOU'RE INVITED TO A SPECIAL PRACTICE TEST EVENT

GMAT | GRE | LSAT | MCAT | DAT | OAT | PCAT

Take a FREE practice test at this event and you'll receive a detailed score analysis and exclusive strategies to help you prepare for Test Day!

Saturday, February 25  
On Campus!

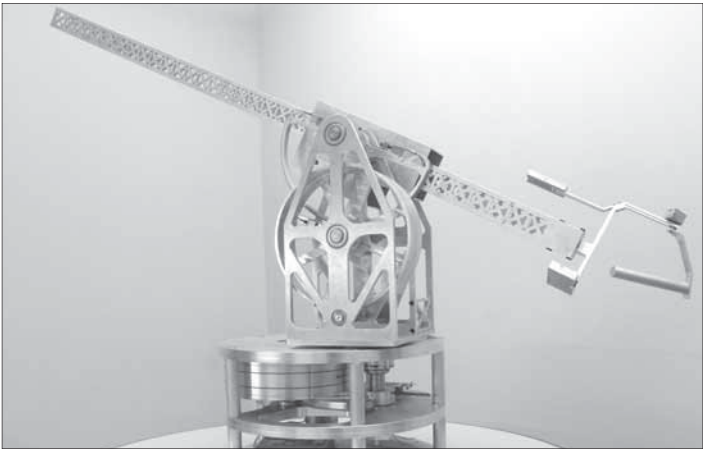
ENROLL TODAY

Limited seats are available. Call 1-800-KAP-TEST or visit [kaptest.com/practice](http://kaptest.com/practice).

\*Test names are registered trademarks of their respective owners.



# Matsuoka lab designs hand devices to aid in rehabilitation



Courtesy of Mike Vande Weghe

Brake-Actuated Haptic Device. It is used as a means to sense body movement in the Feedback Distortion for Rehabilitation project.

ROBOTICS, from A7

## Hand Devices

by **Disha Shah**  
*Junior Staffwriter*

It is midnight. You just finished writing a lab report, but your happiness is short-lived as you remember that you also have a paper due tomorrow. In times like these, you wish you had another hand that could do work for you. Well, this dream is not as bizarre as it seems.

The Neurobotics lab is currently involved in three projects that focus on the hand. These projects will benefit those whose ability to use the hand is lost due to physical injury or illness. One of these projects is called the Anatomically Correct Testbed Hand (ACTH). Begun in 2002, the project's goal is to devise a hand that could serve as a model to better understand the coordination of the hand via brain signaling. The ACTH could also serve to detect Hutchinson's disease, the first symptom of which is the impairment of motor abilities.

The ACTH could one day serve as a device that emulates the hand movements and functions for prosthetics and remote operations. But more importantly, it will serve as a physical model for surgeons to test surgical reconstruction techniques for impaired hands. Where this hand differs from most robotic hands is that it also emulates the biomechanical aspects of the body

that are pivotal for the proper functioning of the hand via the control signals that act like neural commands. In other words, the hand is made to mimic a real human hand as much as possible. "There would be a lot less to do with the software design and mechanical settings if the dynamics of the hand were right. Movement of the hand would come naturally," said Weghe, who is working as a research programmer for this project.

The biggest challenge the Matsuoka lab faces in developing the ACTH is finding the right materials to use. It is crucial to know which parts are vital for the hand to function and which serve no significant purpose. In addition to engineering the tendons to match the tendons that are present in the actual hand, they have also been successful in devising an actuator that mimics the active and passive mechanics of the human muscles. It could be used in the ACTH as long as it does not interfere with the size and weight of the hand by altering the tendon structure of the hand. In order to simulate the active and passive muscle activity and contractions, a custom-made spring and a motor were installed.

The second project in the Neurobotics lab is a hand exoskeleton. The primary difference between the two projects is that the exoskeleton would be more like a glove and could be used for people whose hands have impaired functions. The exoskeleton is

intended for simple tasks such as pinching, pointing, and grasping. The device is controlled by the user's own muscle signals by using surface electromyography sensors attached to the arm. This hand could also be attached and removed as required.

In order to better understand the control and coordination of the brain over the hand, the Neurobotics lab has devised another project to study neuromuscular hand control. The project has two goals: to understand how the brain solves the problem of human hand control and to design prosthetics that can be controlled by the brain.

To achieve the above goals, the Matsuoka lab is currently putting visual markers on human fingers and using the data to understand how the body controls the hand, in order to devise a more realistic model of the hand. An electrical brain interface is also used to detect electrical signals from the brain. However, the material used in the interface is incompatible with the neurons. Due to this, the device fails to detect signals from the neurons after a while. Researchers are currently working on developing biologically-

friendly materials to detect neurons in order to combat this problem.

Based on current research, the future could see a prosthetic hand controlled entirely by the brain. In the words of Weghe: "This device will be able to transmit past damage. It could perhaps be able to bypass numb parts of an injured arm, for example. The brain will eventually learn which nerves to use."

The scope of these projects is immense. "There are rehabilitative institutes that may benefit from our published research, as well as small companies or other institutes that could pick it up," said Weghe. "This research will help to understand body function, what kind of things we can do. It will lay the groundwork for the application and development of many techniques and devices."

## Conclusion

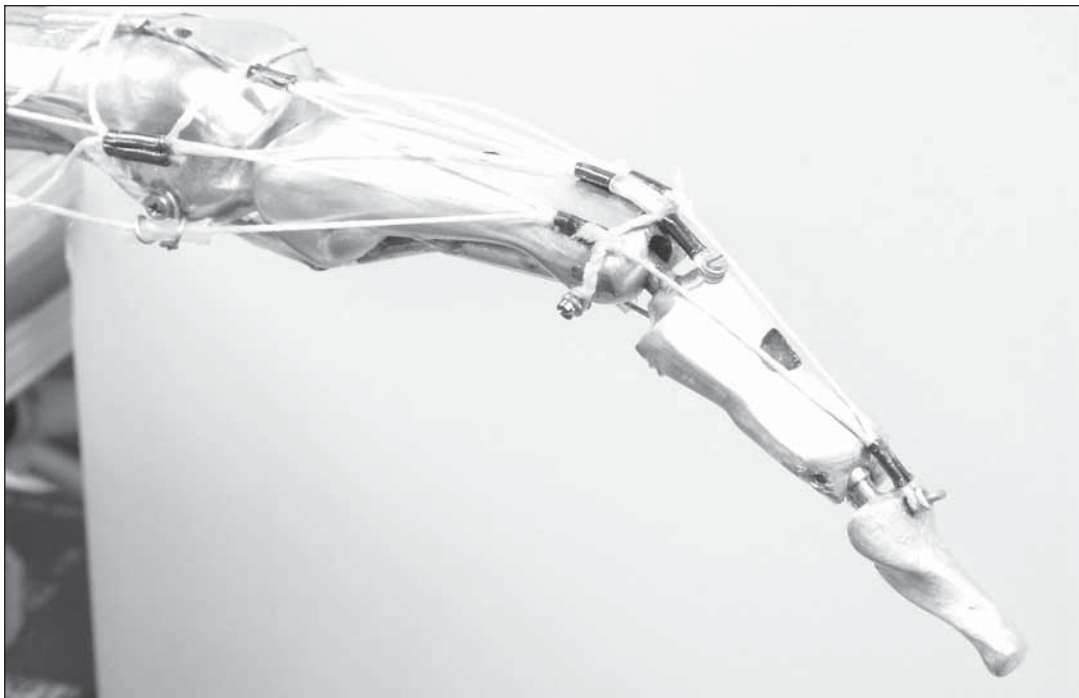
by **Hanadie Yousef**  
*Science & Technology Editor*

For those of you interested in pursuing an MD/PhD, have you ever thought of combining medi-

cine and engineering? Afshar's message might just make you consider it: "I believe that the most interesting and challenging problems today are at the interface between medical science and engineering. To solve these problems requires both a thorough understanding of patients and medicine and the technical ability to identify and solve the underlying scientific questions. This is exactly the aim of the MSTP [Medical Scientist Training Program, a program at UPMC]: to train students with passion to help humanity and skills to create new science."

So now that you have a good sense of the kind of research being conducted in this lab, Pedram Afshar is giving you a chance to participate in his research!

"The goal of my project is to determine how neural activity going to finger muscles creates finger movement. I recruit participants who are right-handed with no history of neurologic disease. The participants will play with a robot while I measure the neural activity to their muscles and their index finger. The experiment lasts about three hours and pays \$10 per hour."



Courtesy of Mike Vande Weghe

Anatomically-Correct Testbed Hand (ACTH). It can be used as a telemanipulator that mimics both the active and passive dynamics of a human hand, and as a working physical model for neuro- and plastic-surgeons.

# Pitt offers new thoughts on evolution

EVOLUTION, from A8

and to the theory proposed by Schwartz. If a mutation occurs in a dominant gene, the organism will die. If it occurs in a recessive gene, then it lies inactive. As this recessive gene is carried, it will slowly be passed along from generation to generation. Eventually the population becomes saturated with the recessive gene, and by chance an offspring can have two copies and a novelty will occur.

Since it is almost impossible to predict when the mutation will manifest, the time and place of occurrence of the mutated gene is like shuffling a deck of cards. "If a novel feature doesn't kill you, you know you have it," Schwartz said. For example, if two copies of a recessive gene for lungs occur in an organism in the ocean, it will drown. Instead of organisms "adapting" to their environment, organisms are distributed through nature through the elimination of the "wrong" traits. No persistent mechanism actually promotes evolution as Darwin believed. It is the lack of an organism's ability to maintain balance in the stresses of an environment that permits novelty to occur.

Schwartz has also published *The Human Fossil Record*, which is the first study of the history of human fossils, and *The Red Ape*, which outlines morphology and molecular approaches to phylogenetic reconstruction.

Maresca, in conjunction with Laszlo Vigh, has worked out the role of membrane lipids and physical state in regulating gene expression.

Schwartz showed that his new theory of evolution has profound effects today as the environment continues to become diminished. As the degradation of the environment continues, the window of opportunity for organisms to survive and evolve will decrease. We have an urgency and responsibility to take care of what's left of our world.



# Pella.

Realize Your Potential.

At Pella Corporation, there are no ordinary careers, only windows of endless opportunity. Fulfill your career goals by joining a team of top-caliber individuals committed to making a difference. Enjoy the culture of a vibrant, integrity-based company, dedicated to developing, promoting and rewarding its employees.

- Co-op/Internship Opportunities**
  - Engineering Co-op
  - Engineering Intern
- Entry Level Openings**
  - Engineers

**Please visit Pella Corporation at the Carnegie Mellon Technical Opportunities Career Fair on Thursday, February 9th.**

Outstanding opportunities exist in Iowa and throughout the United States. Please apply online at **www.pella.com/careers**. Post-offer drug screen and background check required.

Seven consecutive years as:

**FORTUNE® 2006  
100 BEST COMPANIES TO WORK FOR**

Pella Corporation • 102 Main Street • Pella, IA 50219  
www.pella.com/careers • EQUAL OPPORTUNITY EMPLOYER

UNIVERSITY OF PITTSBURGH PHYSICIANS  
CENTER FOR FERTILITY RECRUITING  
HEALTHY YOUNG WOMEN, AGES 21-31, OF  
ALL ASIAN BACKGROUNDS TO DONATE EGGS  
FOR INFERTILE COUPLES.

COMPENSATION PROVIDED.

PLEASE CALL 412-641-7470.



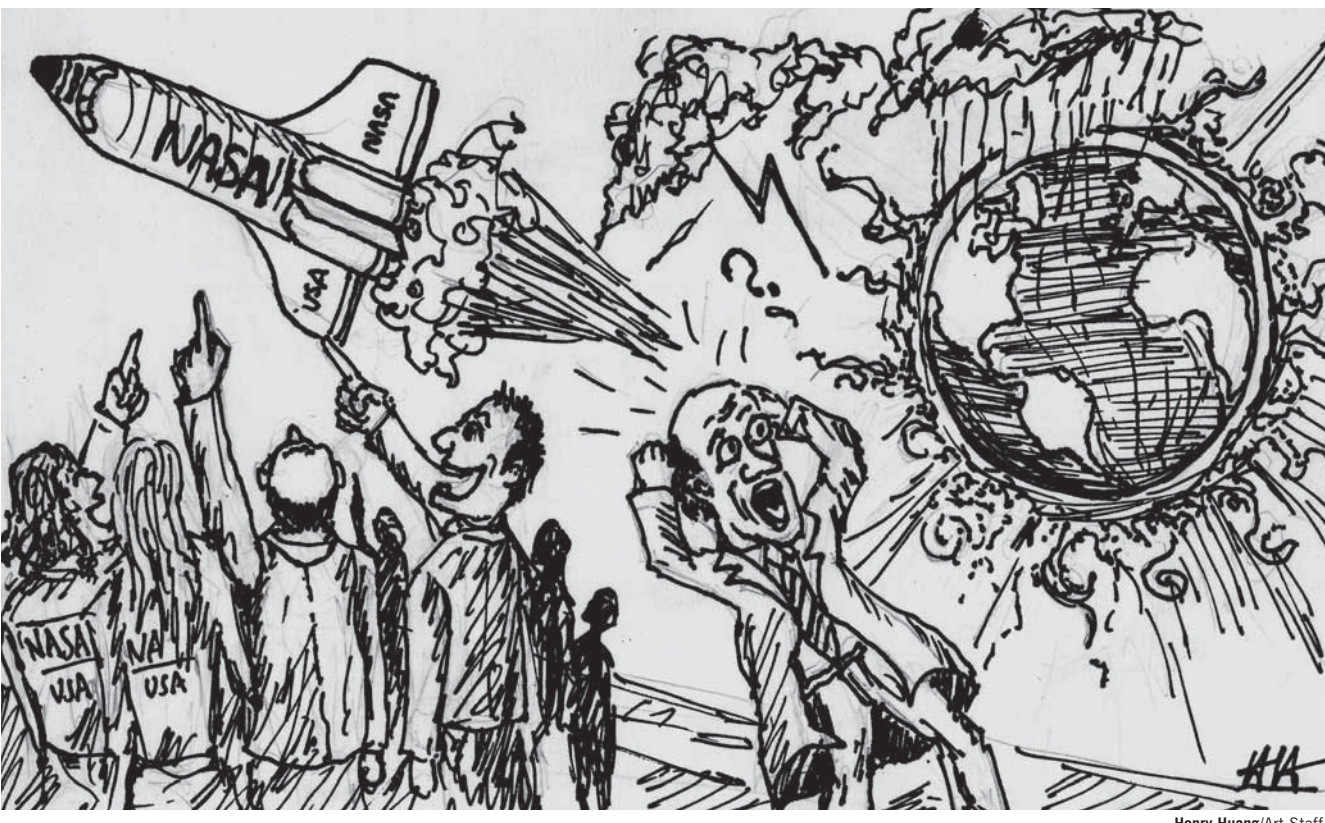
Year	Shirts	Pants	Underwear	Sweatshirts	Shorts	Skirts	Blouses	Lost Per Load
1998	352	112	405	166	119	152	367	.237
1999	325	115	385	153	124	143	402	.336
2000	285	123	415	142	137	161	372	.299
2001	335	104	397	134	114	154	391	.574
2002	295	5	420	148	131	149	410	.278
2003	341	117	408	125	102	124	384	.175

**YOU DON'T HAVE TO BE A HERO TO BE A HERO**  
WHEN YOU ADOPT A CHILD FROM FOSTER CARE,  
JUST BEING THERE MAKES ALL THE DIFFERENCE.

Ad Council.org 1-888-200-4005 ADOPTUSKIDS.ORG



FromTheEditorialBoard



Henry Huang/Art Staff

Our best scientists should not be censored  
NASA's tight control over its scientists' statements suggests government influence

“Good science cannot long persist in an atmosphere of intimidation.”

These words were written in a letter from Representative Sherwood Boehlert (R-NY) to NASA administrator Michael Griffin, and should serve as a strict warning. Boehlert, the chairman of the House Science Committee, sent the letter to the aerospace administration's head last week, criticizing the agency for attempting to censor its top climatologist, James Hansen.

Hansen, who has a long history of speaking out about global warming, gave a lecture last month about the growing importance of reducing greenhouse gas emissions. Shortly after the lecture, NASA administrators ordered all his future lectures and publications to be “reviewed” before going public. The implication, of course, is that NASA doesn't want him speaking his mind on environmental issues again.

It's no secret that the Bush administration is knee-deep in contracts with Big Energy. Whether it's conspiring with oil or coal companies, the Bush administration will do anything to make life better for some of this country's (and this planet's) biggest polluters. This situation is worrisome because it presents a chilling

conflict of scientific interest. Where does the allegiance of organizations like NASA reside — with the legitimate pursuit of scientific research and advancement, or with a check-signing government that might not always want the stone-cold truth made public? Adding anti-pollution measures like smokestack scrubbers would cost the industry billions — billions they won't have to spend if no one calls them out on it.

But how can NASA get away with censoring its own employees? Dean Acosta, a highly placed press secretary at NASA, denied that anything fishy transpired. Instead, he simply claimed that the crackdown on Hansen was because he bypassed standard agency guidelines for making public statements. Acosta said that these guidelines require all statements and research papers to be reviewed before they are publicly announced.

The Bush administration is making NASA nothing but a mouthpiece, putting out only the information that furthers its particular goals and interests. For a nation that was once on the forefront of science, engineering, and technology, America has recently edged its way towards becoming an international laughingstock. We refused to sign the Kyoto Protocol, a

massive global accord to reduce industrial emissions and hopefully reduce, or at least slow down, the greenhouse effect. While Japanese companies like Toyota and Honda are churning out immensely popular and environmentally friendly hybrid gasoline-electric cars, the best selling vehicles put out by the big three American manufacturers are still gas-guzzling trucks and sport utility vehicles.

Michael Crichton hit the nail on the head in his latest novel, *State of Fear*: “[It is] the requirement of every sovereign state to exert control over the behavior of its citizens, to keep them orderly and reasonably docile. To keep them driving on the right side of the road — or the left, as the case may be. To keep them paying taxes. And of course we know that social control is best managed through fear.”

Our government, at this very moment, is attempting to silence its dissidents. No one is being carted off to waste his days in the desolate plains of Siberia, and no one is being kidnapped surreptitiously in the night; even so, this sort of control of who can say what and to whom is yet another symptom of the vast information control syndicate that is slowly falling into place.

Hollywood deserves congratulations  
U.S. movie studios took on controversial issues in 2005, brought content back into films

Ah, substance, how we've missed you.

For all of the knocks that 2005 received about the sad state of film these days — and with national theater attendance down seven percent — popping \$9 on a seat in front of the big screen has been a rather depressing prospect. But all you need to do is take a look at this year's Oscar nominations to prove there was a reason to buy popcorn this season. And 2005's offerings have actually tackled some incredibly weighty subjects that most studios are too often afraid to touch.

With the usual drivel has come a lot of poignant and unique substance at the same time.

Yes, we've been given *Big Momma's House 2* — which is only weighty from the standpoint of Martin Lawrence's fat suit — but this past year has also given us films like *Syriana*, about big oil and corruption in the Middle East. Or films like *Crash*, exploring the intricacies of racism and human interaction in modern Los Angeles. The former is up for Best Original Screenplay and Best Supporting Actor. The latter was nominated for six awards, including Best Motion Picture

of the Year. When was the last year you remember the Oscars being this skewed toward important subject matter? Along with those two are at least five other films exploring subjects often deemed too controversial (or intellectual) for our timid American audiences.

Last year's winners were nothing to sneer at, but their “issues” were wrapped up within themselves, and did not expand into issues facing the world today. *Million Dollar Baby* was a boxing drama. *Eternal Sunshine of the Spotless Mind* was social commentary, but only on a personal level. *The Aviator* was historical, yes, but was it as historically important as this year's *Good Night, and Good Luck*, which documents Edward R. Murrow's historic battle to expose the underbelly of McCarthyism?

And *Spider-Man 2*, well...

Years before haven't been much better, either. The problem hasn't been a lack of good films — for instance, you can't argue that the final *Lord of the Rings* isn't a masterpiece. And to be fair, prior years have also given us *City of God*, *House of Sand and Fog*, and *The Pianist*, to name a few.

What distinguishes this year is that the Oscars have been given a greater number of poignant scripts. Aside from *Syriana*, *Crash*, and *Good Night, and Good Luck*, we also have *Munich*, about the 1972 Olympic massacre; *The Constant Gardener*, dealing with the corrupt influences of pharmaceutical companies in Africa; *Brokeback Mountain*, with the ever-controversial social issue of homosexuality; and even *The New World*, finally taking a more realistic look at the beginnings of our country. Perhaps for every three *The Islands*, 2005 has given us one substantial gem.

Every year is a crapshoot with the American film industry. But something, for whatever reason, has driven studios to attack some meaningful subjects this time around (in addition to their usual offering of suspense thrillers and witty-yet-pointless comedies). It'd be nice to say that U.S. film is becoming more attuned to real life, and therefore more relevant. That's probably too grandiose. For now, let's assume that a few old studio executives discovered they still had pulses — and they read *The Washington Post* a bit more, too.

SayWhat? Selling out Chinese users

Girish Venkataramani

Recently Google decided to set up servers in China, under the condition that it will censor its search results as per the dictates of the Chinese government. It is clear that Google has disregarded civil liberty in the interest of the potential revenue it can generate by taking advantage of a market of more than a billion people.

An alliance between a repressive regime and a giant corporation is nothing new. One of the first and most distasteful alliances was between T. J. Watson of the IBM Corporation and Hitler's Nazi regime. In pursuit of a market monopoly, IBM aided the Nazis with the then-state-of-the-art punch-card technology. The Nazis used it to record the number of Jews rounded up, sent to various concentration camps, and those finally executed.

A considerable number of such economic alliances with subversive regimes continue today and go largely unnoticed.

The revolution of the Internet gave hope to the masses around the world because our cyber-world was perceived to be distributed without any centralized control. This, however, did not stop the Chinese government from trying to block access in China to pro-democracy websites. It took advantage of the global economy and invited major corporations like MSN Search and Yahoo to set up servers in China. But the government demanded that those corporations help it by providing more stringent web control, including the tracing of users. Such alliances invariably resulted in Chinese citizens being jailed because they posted something on the Internet or wrote something in an e-mail.

Google has had a great PR image with its users and the public. Its technology has been innovative, and it is perceived to be an enabler of greater access to information, and therefore freedom of speech and expression. It has stunned many of Google's faithful followers to see it acquiesce to the Chinese demands for censorship.

Several prominent columnists (Bill Thompson of BBC News and Sebastian Mallaby of *The Washington Post* in particular) have defended Google's

decision in recent articles, pointing out that Google is different because its agreement with the Chinese categorically states that with every censored search, the results will explicitly mention the fact that the search has indeed been censored — i.e., if someone is told that he is being brainwashed, then he is not brainwashed at all.

Yahoo recently aided the Chinese government in tracking down a user because he discussed pro-democracy topics. Mallaby claims that Google has not done something as repulsive. But if the Chinese government wants to trace a Gmail user, has Google categorically expressed that it will not disclose private information? Is this part of the Google-China deal? Sadly, we don't know the details of the deal, but if this was a factor, then I am sure Google would have trumpeted this aspect in its defense of censorship. So there is no guarantee that Google will not pull a Yahoo in aiding the Chinese government in tracing users.

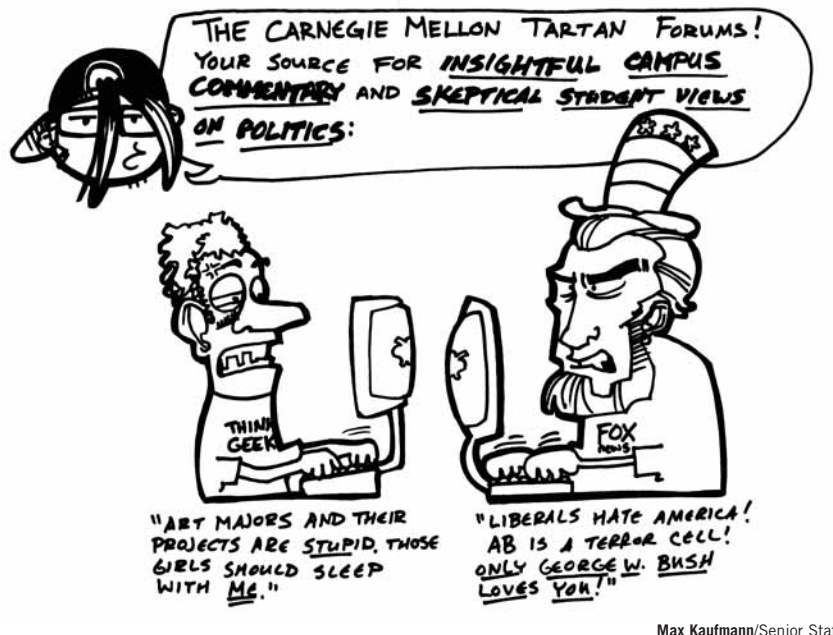
The argument that “letting Chinese users know when they are being censored is progressive” is pure rhetoric. There are millions of Chinese who live in the United States, Europe, and other parts of the world. They are well aware

An alliance between a repressive regime and a giant corporation is nothing new. One of the first and most distasteful alliances was between T. J. Watson of the IBM Corporation and Hitler's Nazi regime.

of Chinese censorship and a majority of these immigrants still maintain contact with relatives and friends in China. It's ignorant to assume that Chinese web users do not know that they are being censored (or brainwashed). Whether or not Google discloses such information, the Chinese already know that information is being withheld, and no matter what, they still can't get to it. It's naive to think that Google has put one over on the Chinese government.

I am depressed by Google's collusion with the Chinese government. It re-affirms my cynicism that “ethical commerce” is just an oxymoron. Here was an opportunity for these corporations to force a change in China. If they had all collectively taken a firmer, more principled position, the Chinese government may have had to re-think some of its censorship laws, lest it be left lagging in a fast-paced cyber-world. But money has once again triumphed in this dilemma, and the corporations are towing the autocratic line.

EditorialCartoon



Max Kaufmann/Senior Staff

# THE TARTAN

Carnegie Mellon's Student Newspaper Since 1906

**EDITORIAL BOARD**

BRADFORD L. YANKIVER  
*Publisher*

EVAN SUNDWICK  
*Editor-in-Chief*

FRANKLIN H. WILLIAMS, *Personnel Manager*

J.T. TROLLMAN, *Contributing Editor*

MICHELLE BOVA, *Contributing Editor*

**EDITORIAL STAFF**

RADHA CHITALE, *Contributing Editor*

AMANDA FLYNN, *Contributing Editor*

GREG PRICHARD, *Contributing Editor*

ALEXANDRA KILDUFF, *Contributing Editor*

SHAWN WERTZ, *Asst. News Ed.*

JUSTIN BROWN, *Asst. Photo Ed.*

MARSHALL ROY, *Forum Editor*

JACKIE BROOK, *Contributing Editor*

TIFFANY YUN, *Managing Editor*

HANADIE YOUSEF, *Sci. & Tech. Editor*

KRISTEN LUKIEWSKI, *Pillbox Editor*

JIMI OKELANA, *Comics Editor*

DANIELLE SAUDINO, *Dossier Literary Editor*

ROBERT KAMINSKI, *Photo Editor*

ALEJO GRIGERA, *Art Editor*

BRITTANY MCCANDLESS, *News Editor*

JIM PULS, *Contributing Editor*

GREG HANNEMAN, *Copy Manager*

MARSHALL ROCH, *Online Editor*

LIZ SCHWARTZ, *Production Manager*

ALLISON GALLANT, *Layout Manager*

BRITTANY SMITH, *Business Manager*

REINA TAKAHASHI, *Asst. Layout Mgr.*

HASEEB QURESHI, *Asst. Business Mgr.*

**Staff**

**SENIOR STAFF**

Albert Cohen, Dexter Hu,  
Max Kaufmann, Veronique Lee

**COPY**

James Auwaerter, Christine Beaty, Matt Campbell,  
Beth Decler, Anne DiGiovanni, Misha McShane,  
Arthur O'Dwyer, Sheila Prakash, Greg Price, Erich  
Schwartzel, Hannah Wendling

**LAYOUT**

Jefferson Ahn, Hye Sun An, Jess Anders,  
Connie Chang, Christine deBriffault, Jessie Kaercher,  
Donghee Kyung, Arel Oran, Matthew Siegel, Ariane  
Simon, Shaleya Solomon

**BUSINESS**

Karina Alvarez, Joannie Carlson, Shephalie Lahri,  
Mansour Nehlawi, Lesley Ridge, Andre Tartar

**Letters to the Editor** are the opinions of their authors. Letters from within the University community take precedence. Letters intended for publication must be signed and include the author's address and telephone number for verification; letters must not exceed 350 words. Authors' names may be withheld from publication upon request. **The Tartan** reserves the right to condense or reject any letter. Letters must be submitted by 5 pm on the Wednesday before publication by mail or to [forum@thetartan.org](mailto:forum@thetartan.org). Comments about and suggestions for **The Tartan** and notices of errata should be directed to **The Tartan's** independent Ombudsman at [ombudsman@thetartan.org](mailto:ombudsman@thetartan.org).

© 2006 **The Tartan**. All rights reserved.  
Library of Congress ISSN: 0890-3107

Office: University Center 314  
Phone: (412) 268-2111  
Fax: (412) 268-1596  
E-mail: [contact@thetartan.org](mailto:contact@thetartan.org)

Mail:  
**The Tartan** / Box 1017  
Carnegie Mellon University  
Pittsburgh, PA 15289-1017



# I don't have a job yet, and I'm okay with it. Why aren't you?



Jackie Brook

No matter what stage of life you are in, there seems to be an age-appropriate question those around you feel compelled to ask. When you're young, it's "What do you want to be when you grow up?" In high school, it becomes "What college do you want to go to?" As college graduation rolls around, it evolves into "What are your plans? Where are you working?" After that comes "When are you getting married?", "When are you having kids?", "When are you retiring?", and "When are you going to die?"

The problem I have with this line of questioning does not lie within the questions themselves, but rather the reaction to their answers. When I was younger, I went through a number of phases trying to figure out my niche in life. At three years old, I had decided I would be a reverse psychologist when I grew up, an idea my mother laughed at. In third grade, I was hell-bent on becoming a stand-up comedian, a phase I was encouraged to grow out of. When I entered high school, I had decided I wanted to become a profiler for the FBI, yet my high school guidance counselor felt the need to dash my dreams as she told me I "wouldn't pass the background check." Never were my decisions supported.

Lately, questions about my plans for the future have flooded in. Am I going to continue with school? Do I have a job lined up? Is my résumé updated? Do I know where I will be living? With each inquiry into my future, it is

hard not to grow aggravated with the seemingly unending barrage of probes.

Now that my graduation is less than four months away, I have been bombarded with questions about graduate school or where I plan on working. When I reply with the simple "That's a good question," people respond with looks of pity and condolence. Why, I ask, do people feel the need to feel bad for me? I am perfectly content with my situation, and there is no need for anyone to feel bad for me, particularly when they do not understand my position.

The larger issue at hand is our incessant need to ask others the questions to which we do not have answers ourselves. Ellen DeGeneres once joked that the reason adults ask kids what they want to be when they grow up is because the adults are "looking for ideas." Are we asking those around us about their career aspirations because we cannot find direction on our own?

I find that there are only two other reasons people grow inquisitive about my job prospects. First, they are making polite conversation. Typically, these inquiries come from distant family members or people I interact with in passing. The second group, and perhaps I am cynical in thinking this, consists of people who are itching to share their own good fortune, wanting to tell of the wonderful job they've landed at Deutsche Bank or Goldman Sachs.

Congratulations. Your future is secured with a 401(k) and health benefits. But will you be any happier than other people who are still searching for the jobs that are right for them?



Dave Kjos, Jr./Art Staff

So often people forget that we are still in our formative years, working hard at finding ourselves and what we are good at. The constant pressure to define our worth by knowing our future plans is often too much to handle, making the already stressful time leading up to graduation seem even more arduous than it

is. Why do we find the need to justify our life and our work with solid plans for our future?

I, for one, will not allow the value of my work be determined by the plans I cannot make. And, more importantly, I will not allow those around me to shame me for not having answers to questions that do not need answering.

Jackie Brook (jbrook@) is a senior English, creative writing, and professional writing triple major and contributing editor at *The Tartan*. She does not want to be pitied because she does not have a job locked up come June 1st. She does, however, accept all responsible replies and lucrative job offers.

# Pittsburgh and its Steelers: civic pride or codependency?



Ben Hackett

When the festivities end and the barricades are taken down in the South Side, it might be time to bar up the windows and lock the doors. That might seem to be an exaggeration, but after some statistical merrymaking, this apparent overstatement will morph into sound advice.

Sure, there is a charming characteristic to a city with a pervasive civic pride. Yet even when the bus exhaust puffs black and gold it can serve, at best, as only a smoggy cloud covering the lack of a civic essence. Pittsburgh, outside its sport franchises, actually has very little civic pride. If the city of Pittsburgh is a damaged piece of furniture, the Pittsburgh Steelers, and their beloved Steelers Nation, are the lacquered facade covering the blemishes.

Today, as Super Bowl fever grips the region, a visitor to Pittsburgh could not help but be enveloped with Steeler Pride. The buses flash "Go Steelers" on their displays. Be they mom-and-pop shops or corporate bailiwicks, Steelers paraphernalia line the windows of every business from the gritty downtown to the sprawling suburbs of the Steel City.

The black and gold signs display "Go Steelers," "In Ben We Trust," or "One for the Thumb." However, they should read: "Watch your back if the Steelers win." Hell, watch your back if the Steelers lose. The case tying a climate of crime to a fanatical obsession can be strongly placed into the public docket.

Tying the mental health of a city to the rise and fall of a sports franchise is unhealthy even by the most anecdotal of measures and evidence. In a recent *New*

*York Times* opinion editorial, the author, Holly Brubach, attempts to lay out a case in favor of the quirks of the city of Pittsburgh. Instead, Brubach provides readers with statements indicative of this city's tenuous general mental health.

She writes that "Pittsburgh needs the Steelers in a way that few, if any, other cities need their teams. The Steelers are our mirror: they tell us who we are. When they win, we walk a little taller." What does that sound like — a devout fan, or a codependent depressive who feels incomplete without her significant obsession's presence?

The tragedy of the resident-team relationship continues to unfold in Brubach's piece. Speaking to her earlier years as a resident of "Da Burgh," she speaks of her "appreciation for Pittsburgh" as "relatively recent." She continues, saying, "Like a

garnered these residents a "respect," one that never existed for them even when they thought about "themselves." This is a troubling thought. Sports can be both uplifting and memorable, but they are nothing more than entertainment. A memorable sporting event has always been more about the people you are watching or attending with than the effect it has on one's mental health and well-being. The relationship between citizen and franchise is more complex when said franchise's success is tied to measureable negative effects.

The emphasis of a society, and more locally, a city, cannot rely solely on a concentration in arts and leisure. In the long run, sports are insignificant. When a city's mental health and general pride are so closely tied to a particular franchise, that city can experience other problems associ-

## Tying the mental health of a city to the rise and fall of a sports franchise is unhealthy even by the most anecdotal of measures and evidence.

lot of natives, I grew up feeling apologetic that the city, with its smokestacks, factories, and railroad trestles, wasn't picturesque (this was back in the days before 'industrial' was an aesthetic); that, being closer to Ohio than to the Eastern seaboard, it wasn't more cosmopolitan; that it was a blunt, hard-charging, working-class town in an increasingly nuanced, executive world. When, beginning in 1975, the Steelers won four Super Bowls in six years, they earned us a respect we'd never had, not even for ourselves."

Concentrate on that closing line. The Steelers' winning of the four Super Bowls

ated with the rise and fall of that franchise. What would one say if there were data that supported a correlation in an increase or decrease in local violent crime with a large change in the Pittsburgh Steelers' win/loss record? The following has a controversial taint; but remember this quick exercise in empirical data analysis has a benevolent intent in hand.

Using the last 10 years of available FBI criminal statistics data, there are some points of interest. There is a correlation between the two largest increases in violent crime in Pittsburgh and the Steelers' win/loss records taking a downturn. In

2002, the number of violent crimes in this city jumped from 2964 to 3794, an increase of 28 percent. This, the highest jump in violent crime in the 10-year study, corresponds to a change in the Steelers' win column from 13 to 10 during the same time period.

Next, examine the period from 1997 to 1998. Violent crimes jumped from 2778 to 3156, an increase of 13.6 percent. This was the second-largest jump in violent crimes in the 10-year time period studied here. It also happens to correspond to a Steelers win-column change from 11 in 1997 to seven in 1998.

The correlation also works in the opposite direction. In 2000, the Pittsburgh Steelers went 9–7 and missed the playoffs. The next year, the Steelers went to 13–3 and the AFC championship game. This positive change in the team's record corresponds to the largest drop in violent crime in the 10-year sample: a drop of 10 percent from 2000 to 2001. Even considering last year, with the dramatic franchise record reversal as an obvious outlier, there is a generally significant correlation found in the numbers.

Any researcher worth his salt must admit that correlation does not equal causation. Yet, these figures offer one something evocative to ponder. Are these numbers simply causal coincidences? Maybe. Or perhaps they are indicative of a more pandemic problem. When temporary satisfaction associated with a sport franchise's success is confused with true personal happiness, it is time for some introspection. That said: Go Steelers.

Statistically significant? Maybe. Pertinent? Always. As such, Benjamin Hackett (bhackett@) invites readers to join him at BenjaminHackett.com.

# Presidential Perspectives

## Senate must reach out to constituents



Tom Sabram

I spent this past Thursday as I spend most of my Thursdays: attending the Undergraduate Student Senate meeting as an ex officio member. As I sat there and waited to give my report on various updates, I wondered how detailed the debate would be on the Students' Rights Policy, hoping we would have a substantial amount of time to discuss the potential ramifications of the resolution in support of the proposed amendments. I was slightly unnerved when four funding motions passed in a flurry of Senate activity — in about 10 minutes. Finally the discussion arrived and I was more than satisfied with its length. However, one question I posed left me with a disturbing response; I wanted to know how many Senators had actually talked to their constituents — or even friends — about this potential new policy. Sadly, very few had made mention of it to anyone.

When dealing with potential amendments that can affect the entire student population, it is important to have input from and communication with fellow students. Not only have most of the Senators forgotten to make themselves more visible, but I face the same problem, too. This is something I am working on fixing in the second semester of my term.

Last semester, after an editorial was written about the lack of transparency of my administration, I took time to reflect upon what I thought I was doing right and what I was criticized on. In order to protect the integrity of certain tasks, I can't always disclose every project I am working on. However, I should be more forthcoming on my projects. I have been spending more time planning and writing my columns this semester. Currently, I am looking into the feasibility of having some kind of air time on WRCT, hopefully with the ability to have students ask questions directly to me.

This week, I will be scheduling my office hours. Now that I am a second-semester senior with a much more open schedule, I will be able to vary the location of the weekly office hours, so I can be found in a more open area on campus rather than always on the third floor of the University Center, where my office is located. Those are the major changes in the upcoming few weeks. I hope these will allow me to communicate with you on a much more frequent basis. Since Nicolette and I are the only two people in the student body (vice) president positions, we can miss certain obvious suggestions to improve our office. If you have any suggestions, feel free to e-mail or talk with me so I can make myself more available to serve you, the student body.

Tom Sabram can be reached at (sbp@) or 412-657-3953.

Pittsburgh is Steelers-crazy! The Super Bowl has this city vibrating with excitement, so we asked:

## What would you give for front-row tickets to see the Steelers in the Super Bowl?



Sam Clanton  
Graduate Student  
Robotics

"I'd give up one of my laptops."



Jeremy Bock  
First-Year  
Mechanical Engineering

"I would give up my West Wing suite to live in the Donner Ditch, right next to the dumpster."



Niraj Tolia  
Graduate Student  
Electrical & Computer Engineering

"My left leg."



Jack Meade  
Sophomore  
Art

"I'd give up all the wild sex I'm having at CMU."



Waleed Martin  
Junior  
Business Administration

"My roommate; I would kill him."

# A PERSON'S OPINION

Compiled by Magali Duzant and Folasakin Oyeleye



# Congratulations!



The School of Computer Science  
wishes to publicly acknowledge the  
outstanding academic achievement  
of the following students who have  
been named to the Dean's List for  
the Fall 2005 semester.

Abrahams, Jessica	Sophomore	Maas, Andrew	Freshman
Ahmad, Arbob	Sophomore	Maitin-Shepard, Jeremy	Sophomore
Albertson, Jacob	Sophomore	Mallepula, Sindhuja	Freshman
Andrews, James	Junior	Mancheril, Naju	Senior
Andrianoff, Timothy	Sophomore	Marinelli, Eugene	Freshman
Ang, Eugene	Sophomore	Marks, Colin	Freshman
Avramovic, Igor	Sophomore	Mason, David	Senior
Bachin, Anton	Junior	Maurer, Benjamin	Freshman
Bae, Young Sub	Freshman	McKenney, Paul	Sophomore
Banner, Matthew	Sophomore	Meeder, Brendan	Junior
Bare, Keith	Sophomore	Millett, Danielle	Freshman
Barndollar, Eric	Freshman	Mordkovich, Alexander	Junior
Bauman, John	Freshman	Mou, Joseph	Senior
Bayer, Robertson	Senior	Moulton, Ryan	Senior
Blocki, Jeremiah	Freshman	Murray, David	Senior
Brotzman, Michael	Junior	Nam, Yoon Ji	Freshman
Carson, Matthew	Senior	Necas, Ryan	Senior
Casinghino, Christopher	Junior	Ng, Si Yang	Sophomore
Castellana, Natalie	Senior	Ngiam, Jiquan	Freshman
Cheah, Min Chung	Senior	Nourse, Thomas	Senior
Cheng, Daniel	Junior	Nuffer, Daniel	Freshman
Chin, Hui Lin	Senior	Nunge, Elizabeth	Junior
Ching, Yuen Yim Alice	Senior	Ouyang, Zoe	Junior
Choudhary, Salahuddin	Junior	Pan, Xinghao	Freshman
Comer, Kyle	Sophomore	Parasuraman, Karthik	Junior
Costello, Kevin	Sophomore	Pencoske, Daniel	Sophomore
Deyoung, Henry	Junior	Perkins, Daniel	Sophomore
Difazio, Charles	Senior	Pfenning, Andreas	Senior
Dille, Michael	Senior	Pitsch, Madeleine	Freshman
Donovan, Joel	Senior	Powell, James	Freshman
Douglass-Riley, Matthew	Sophomore	Prakash, Vijay	Freshman
Duterte, Daniel	Freshman	Price, Gregory	Senior
Fasola, Juan	Senior	Qiao, Zhi	Senior
Gavlovski, Avi	Senior	Ramesh, Sridhar	Senior
Gershenson, Joseph	Freshman	Ridmann, William	Junior
Gho, Zhengheng	Freshman	Rojas Ruiz, Alfredo	Junior
Gormley, Matthew	Junior	Rosenthal, Stephanie	Junior
Grafton, Jeffrey	Sophomore	Rothwell, Colin	Senior
Grubb, Alexander	Junior	Ruhland, Charles	Freshman
Guitana, Yady	Senior	Ryan, Michael	Senior
Guo, Minghui	Sophomore	Sahin, Engin Cinar	Senior
Gupta, Ashwin	Senior	Salamon, David	Senior
Gupta, Tanya	Sophomore	Sarnoff, Matthew	Sophomore
Harbuck, Jonathan	Freshman	Schnarr, Joshua	Senior
Heckman, Nicholas	Sophomore	Shah, Ankur	Senior
Heng, Jian Yong	Senior	Sherman, Jonah	Sophomore
Hershey, Daniel	Senior	Simmers, Brett	Freshman
Ho, Yan Yin	Sophomore	Singal, Nalin	Sophomore
Hoke, Evan	Sophomore	Song, Shiwei	Freshman
Hong, Seunghwan	Freshman	Stade, Evan	Sophomore
Hsu, Calvin	Freshman	Sun, Kevin	Sophomore
Hsu, Diana	Senior	Sureshchandra, Jayesh	Junior
Humphrey, Matthew	Junior	Surie, Ajay	Senior
Jackson, Carmen	Junior	Tan, Jiaqi	Freshman
Jain, Sandeep	Senior	Tangwongsan, Kanat	Senior
Jeon, Yongjun	Sophomore	Tarpine, Ryan	Senior
Jeong, Youngjoo	Freshman	Telgarsky, Matus	Junior
Kalberer, Jacob	Junior	Theera-Ampornpunt, Nawanol	Freshman
Kedia, Mihir	Junior	Thomas, Lee	Freshman
Knichel, Jason	Sophomore	Tsang, Chiu Yee	Sophomore
Kramer, Danielle	Freshman	Vangpat, Alan	Sophomore
Kraut, Joel	Senior	Verma, Awaneesh	Senior
Lazar, Anthony	Freshman	Wang, Karen	Junior
Lecompte, Carl	Sophomore	Wang, Wei-An	Sophomore
Lee, Heegun	Senior	Warshaver, Andrew	Sophomore
Lee, Ilsun	Senior	Weston, Kimberly	Sophomore
Lentine, Michael	Junior	Williamson, Matthew	Sophomore
Leszczenski, James	Senior	Wismer, Timothy	Freshman
Levin, Dmitry	Freshman	Wright, Matthew	Junior
Levine, Mark	Freshman	Wu, Jack	Senior
Levy, David	Senior	Yamauchi, Owen	Freshman
Liemhetcharat, Somchaya	Sophomore	Yousuf, Sana	Junior
Liu, Joseph	Junior	Zagieboylo, Paul	Senior
Liu, Yuxiang	Senior	Zhang, Yinmeng	Senior
Lofton, Benjamin	Freshman	Zhu, Timothy	Freshman
Low, Yucheng	Freshman	Zhuang, Xinyu	Senior
Ma, Zixuan	Senior		





Chang Glasgow/Photo Staff

First-year forward/center Jeanette Schilling drives past Chicago's Susie Gutowski. The women's basketball team was thwarted by Washington University and the University of Chicago.

## Sports in Brief

The **women's basketball team** lost the first of a four-game home stretch against third-ranked Washington University in St. Louis on Friday night 83-58. The Tartans got into early foul trouble, allowing the Washington Bears to race to a double-digit lead. The Bears relied on their perimeter shooting and uptempo style to exploit the Tartans' zone defense. In the second half, the Tartans came out gunning with a 7-2 run led by first-year Jeanette Schilling. However, CMU's Rachelle Roll suffered a right ankle sprain with six minutes left, and the Tartans were unable to finish strong. Schilling had a team-high 12 points and four rebounds while Danielle Beehler had a double-double with 19 points and 12 rebounds for Washington.

Following the loss to Washington, the Tartans were unable to bounce back and secure a win against the University of Chicago Maroons Sunday, losing 72-50. Trailing most of the game, CMU was able to step ahead to 16-15 with 9:52 left in the first quarter, but Chicago responded with a 24-10 run to close the half. The Maroons never trailed after halftime as they prevented the Tartan

players from scoring in the double digits, forcing a disappointing 28.8 percent from the field. Following this loss, CMU falls to 0-9 in the UAA with an overall record of 5-15. Dava Sommermeyer was the leading scorer for CMU with nine points while Susie Gutowski had 21 points and eight rebounds for Chicago.

The women face New York University on Friday at 6 pm and Brandeis on Sunday at 3 pm. Both games are at home.

In their first match of the 2006 portion of their season, **men's tennis** served up a 5-4 win over Division II Mercyhurst College, which now has a 4-2 record. Lucas Krasowski, Dan Munoz, and Jordan Koslosky all won their singles matches in two sets. Andrew Clearfield came back after a rough first set to win his match against Lee Michael Marnik. Two Tartan doubles teams fell to the Lakers, and the last won by default. Tennis faces Kenyon College and Denison University this week.

The Carnegie Mellon **men's and women's indoor track** and field team competed at the un-scored Denison University Big Red Invitational last Saturday.

The men claimed first in seven events, and had 16 top-three finishes at the meet. CMU's performance in the 800-meter dash was exemplary — the Tartans chased down four of the top five places. The team went into the event with one meet — a first place win — under their belts. With a large team and a strong start, the season looks promising for the men.

Three Tartan women won top finishes and the team placed in the top three in another three events. Jocelyn Sikora finished the 1500-meter run nearly two seconds before her closest competitor. Jessica Meng dominated the triple jump, soaring two feet farther than the competition. Allison Hannen topped eight feet in the pole vault, a full foot higher than her only competitor.

The women's successes should be a boost to the team's morale. In their first meet, the women took seventh place out of nine. The team has hard work ahead if they want to see some more first place finishes as the season moves forward.

On February 10, both track and field teams will compete at the Oberlin Invitational.

## IM NEWS

### Administration

Intramural Director: Mike Mastroianni, x8-2214 or [mmas8@cmu.edu](mailto:mmas8@cmu.edu)  
Assistant Director: Mike Grzywinski, x8-2214 or [mmike@cmu.edu](mailto:mmike@cmu.edu)  
Secretary: Amy Kiryk, x8-2053 or [kiryk@cmu.edu](mailto:kiryk@cmu.edu)  
IM Board President: Jon Kline, [jikline@cmu.edu](mailto:jikline@cmu.edu)  
Women's President: Jaci Feinstein, [jfeinste@cmu.edu](mailto:jfeinste@cmu.edu)

### Important Dates:

Thursday, February 9 – Ros-

ters due for Individual Call Pool and Individual Table Tennis.  
**Wednesday, February 15** – IM Board Meeting 11:30 am in the IM Office.

### Sports in Season

**Floor Hockey** – The spring semester schedule for floor hockey is now available in the IM Office. Games have started in the Arena Room at Skibo Gym. Be advised that all people entering the gym building now must present their ID to be scanned by the desk attendant. No exceptions. Please stay out of the Arena Room until the varsity track team has finished practice and the IM staff gives the OK.

**Basketball** – Schedules are now

available outside the IM Office. Games started last Monday night in the UC Gym. Games are played Monday through Thursday nights and Sunday afternoons. There are 86 teams playing in the four leagues this year. The finals will be held on Thursday, March 23 on IM Night in Skibo Gym.

**Co-Rec Badminton** – The play-offs were held last week. The champions are E-C-E.

**Team Call Pool** – The play-offs are posted. Please play all matches as scheduled and report results to the IM Office.

**Foosball** – The champions in foosball were PiKA A (majors) and Two Old Guys (minors).



Carnegie Mellon  
**ATHLETICS**

HOME

AWAY

	Feb 6 MONDAY	Feb 7 TUESDAY	Feb 8 WEDNESDAY	Feb 9 THURSDAY	Feb 10 FRIDAY	Feb 11 SATURDAY	Feb 12 SUNDAY
<b>BASKETBALL</b>					New York Univ. 8:00 PM		Brandeis Univ. 1:00 PM
<b>SWIMMING</b>			UAA Championships Emory Univ. 10:00 AM	UAA Championships Emory Univ. 10:00 AM	UAA Championships Emory Univ. 10:00 AM	UAA Championships Emory Univ. 10:00 AM	

## Looking for a Great Apartment?

**E.S. Management** has some of the best apartments available in the **North Oakland, South Oakland, Shadyside, Squirrel Hill, & Friendship areas.** Just look at some of the great studio, 1,2,3,4 and 5 bedroom apartments we have to offer, **some for May and some for the fall.**

### SOUTH OAKLAND ALL NEW RENOVATED 2, 3, AND 4 BDRM. APARTMENTS

new kitchens with dishwashers, garbage disposals, range hoods, new bathrooms with ceramic tile floors, central AC., new windows, buzz in entry, high speed wire and cable for net, laundry in bldg., brand new \$850-\$1800 plus utilities.

### SHADYSIDE HUGE 3, 4, & 5(2 baths) BDRM. APARTMENTS

Newly renovated, new kitchens with dishwashers, garbage disposals, new windows, hardwood floors, buzz in entry, laundry in bldg., too much to list, these apartments are some of the **BEST AVAILABLE** IN SHADYSIDE \$1200-\$1800 plus.

### NORTH OAKLAND FABULOUS 1, 3, & 4 BDRM.

**APARTMENTS IN NORTH OAKLAND** RENOVATED, large 4 bdrm. apartment in great location, only 4 blocks from Pitt, central AC., new kitchens, with dish washers and garbage disposals, new cabinets, hardwood floor, buzz in entry, new thermal windows, high speed wire and cable for net, laundry in bldg., off street parking available, only \$595-\$1500 plus.

**WE HAVE OTHER GREAT APARTMENTS IN SHADYSIDE, OAKLAND, SQUIRREL HILL, AND FRIENDSHIP AREAS \$445 - AND UP.**

Please call now to schedule an appointment.

**E.S. MANAGEMENT**

**412-795-5845 or 412-325-3905**



**IEE**

University of Pittsburgh  
Institute for Entrepreneurial Excellence  
PantherlabWorks

**YOU PROVIDE  
THE SPARK,  
WE PROVIDE  
THE FUEL**

### Services Include:

- Product Review and Development
- Industry Analysis
- Market Research
- Business Planning
- Pricing Analysis
- Sales Process Development

**The spark is your idea** – a new and creative product or approach that will change the way the world does business. **PantherlabWorks** has the fuel – the resources and expertise required to successfully commercialize an innovation – that can help kindle the interest of the marketplace. We work with intelligent, creative and highly motivated faculty, students and entrepreneurs who are actively transforming cutting-edge research into practical commerce.

Interested in exploring the business potential of an idea or product you've developed? Call Sherry Balmat at **412.648.1820** or email her at [scbalmat@katz.pitt.edu](mailto:scbalmat@katz.pitt.edu).

Underwriting provided by PNC Bank, Heinz Endowments, and Tippins Foundation

## Suite Location



**Best location in Pittsburgh**

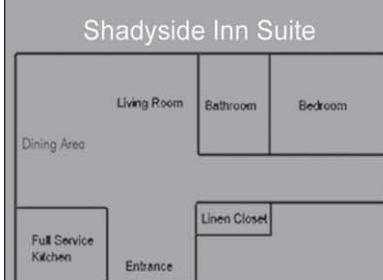
**One block from Walnut St.'s 144 shops, entertainment and dining**

**Less than 1 mile from The University of Pittsburgh, UPMC and Carnegie Mellon University**

**Free High Speed Internet Access**

Elegantly furnished one and two bedroom suites with equipped kitchen, fluffy linens, TV,VCR, digital cable movies, free local phone and reserved parking.

A Suite For Less Than A Hotel Room



Regular Hotel Room



*Shadyside Inn  
Suites*

**Daily, Weekly and Monthly Rates**

**5405 Fifth Ave  
Pittsburgh, PA 15232  
[shadysideinn.com](http://shadysideinn.com)  
(412) 441-4444**

Don't just read the sports page.

Create it.

Email [sports@thetartan.org](mailto:sports@thetartan.org) to learn more





# STEELERSNATION

Long awaited, one for the thumb has arrived



Justin Brown/Assistant Photo Editor



Dexter Hu/Senior Photo Staff



Jiaqi Tan /Photo Staff

by **Dan Giesey**  
*Junior Staffwriter*

After 26 seasons without a Super Bowl victory, the Steelers found last night that the road less traveled is often most rewarding. Finding themselves at 7–5 midway through the season, the team rallied to win their last four regular season games and, in a playoff run unparalleled in NFL history, won three consecutive road games against the first-,

second-, and third-ranked AFC teams to become the first No. 6 seed in history to advance to the Super Bowl. As it turns out, reaching Jerome Bettis' home town was but a taste of the challenges to come, especially given the opposition: the top-ranked Seattle Seahawks.

Although they were favored by four points, the Steelers got off to a rough start; both their mainstay running attack and newfound passing success were absent in the face of a stout Seattle defense. The Steelers, however, are not

strangers to second-half comebacks. The sputtering offense found success early in the second half with an out-of-character between-the-tackles run, and Willie Parker sprinted 75 yards to the end zone, setting a Super Bowl record for the longest rushing touchdown. Things began to look even better with the team threatening to score once again, but an errant third-down pass by quarterback Ben Roethlisberger was intercepted at the goal line and set up a drive that eventually ended in a Seattle score.

Just when it looked as if things were spiraling out of control, Ike Taylor — an otherwise extremely talented cornerback who has been somewhat maligned for dropping interceptions — picked off a wayward Matt Hasselbeck throw deep in Steelers territory. For what feel like the sixth time in the season, Steelers offensive coordinator Ken Wisenhunt came up with the perfect trick play at the perfect moment: Big Ben Roethlisberger received the shotgun snap on third down, handed it off to Parker, who reversed to Antwaan Randle-El, setting up a game-clinching long touchdown pass to a wide-open Hines Ward. Ward was later named Super Bowl MVP.

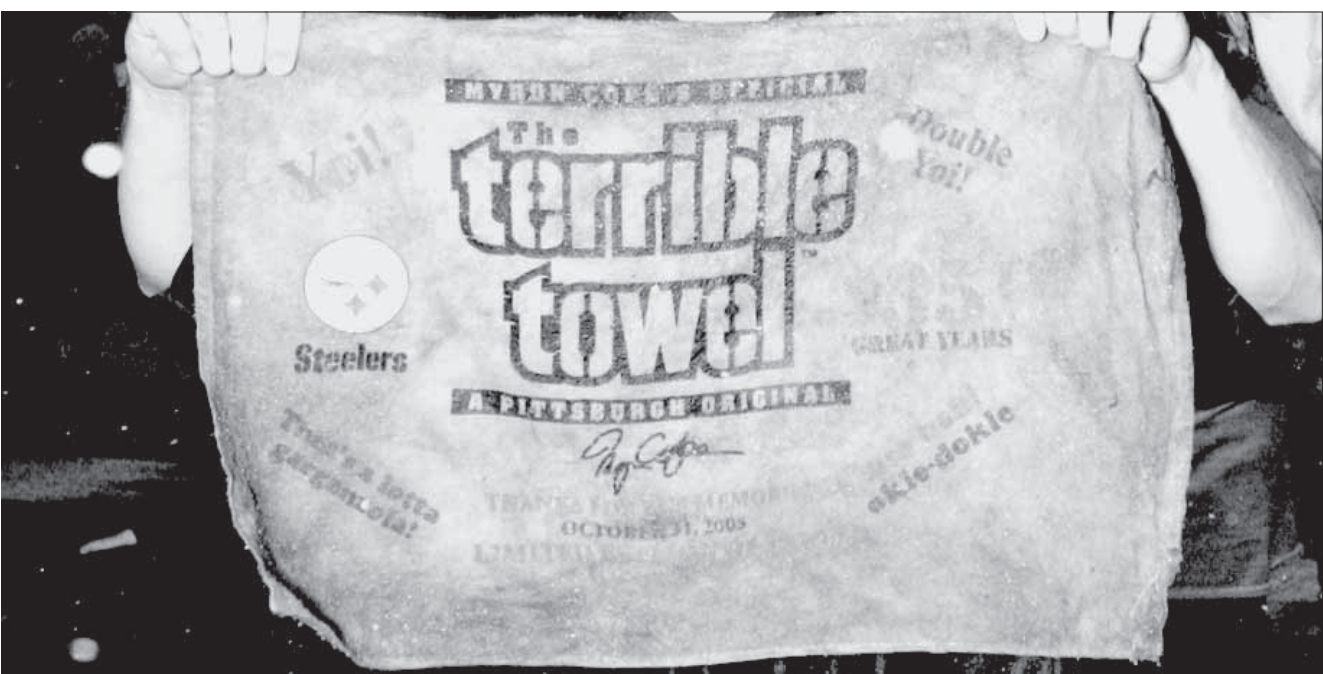
The rest, as they say, is history. The Steel Curtain tightened up in the final minutes, and the Bus was not stopped, at least not soon enough to kill the clock and secure the Steelers win. As the city rejoices, this season — and this game — will undoubtedly go down as one of the most exciting and uplifting wins in Steelers history.

Granted, only four members of the Steelers staff got their “one for the thumb” last evening, but the implications for the younger members of the organization are huge. Bill Cowher, the longest-tenured active coach in the NFL, has managed to pull off the best record of any team over the 14-year span that he has been with Pittsburgh. Despite this achievement, he has come under considerable criticism over the last several years for not being able to “win the big game.” Prior to last night, Cowher had lost four out of his five AFC Championship appearances, as well as his sole Super Bowl appearance in 1995. Such criticism would upset some coaches, but not Cowher, who acknowl-

edges the realities of the business. He'll be the first to say that as the coach, he had to take the blame for the losses — but boy, can he celebrate the win. Already people are saying that this win may cement Cowher's future spot in the NFL Hall of Fame. For his perseverance alone, he's earned it.

Of course, coaching and preparation alone cannot win championships; players must also step up and make plays when it counts, and for many Steelers, this win was just as important for their careers as it was for Cowher's. First, there's Jerome Bettis winning the Vince Lombardi trophy in his home town, capping what is likely his last year in the league. Then you have Willie Parker, an undrafted free agent and first-year starter breaking a 75-yard run for a touchdown on the world's biggest stage. And let's not forget Hines Ward, the Super Bowl MVP, who this time last year was crying at the post-AFC Championship press conference, telling the world how upset he was that Bettis would never reach the Super Bowl.

For me, a Pittsburgh native, the magnitude of this win hasn't yet sunk in. Pittsburghers and Steelers fans everywhere have come so far and waited so long for this moment. The elation of winning the big one stands in such stark contrast to the three AFC Championship losses that I've experienced first-hand. All I can say is that the Steelers made history Sunday night. The last time Pittsburgh won the Championship was six years before I was born, but in the six years prior to that final victory the team won an unprecedented four times. I can only hope that this is the beginning of a new dynasty.



Justin Brown/Assistant Photo Editor

Exuberant Steelers fans proudly displayed a Terrible Towel they lifted from the pavement on East Carson Street in South Side after it was trampled by the crowd numbering into the thousands. (Top left) Even as sports fans poured into the streets, South Side was under the management of mounted police. (Top center) Couples kissed in celebration. (Top right) Students clad in Pittsburgh garb filled McComomy auditorium past half capacity for a Super Bowl party hosted by the Activities Board.

## Another UAA triumph

Men's basketball grabs two wins, ups record to 17–3 overall and 7–2 in the UAA

by **Colin Liotta**  
*Staffwriter*

For the second time in less than a week, the Carnegie Mellon men's basketball team defeated UAA arch-rival Washington University in St. Louis Friday night 79–72 to regain the top spot in the UAA standings.

The Tartans came out slow to start the game, taking their first lead off of junior Brad Matta's basket, which put the Tartans up 20–19. But the Bears of Washington University quickly put up a 10–0 run and continued to lead going into half-time with the score 36–30.

In the second half, the Tartans began to fight their way back into the game. Following a poor first half in which the team only shot 33.3 percent from the field, the Tartans came out firing in the second half, shooting 57.1 percent.

The Tartans led 72–68 with 1:09 left in the game before Wash U. guard Scott Stone nailed a three-pointer with 47 seconds left to make the score 75–72. After some clutch free throws by A.J. Straub, the Tartans capped off the victory with a Nate Maurer dunk as time expired.

“We never hit the panic button,”

said Matta, who contributed nine points and four rebounds. “We kept our composure and played like champions, and when you do that the result will be a win.”

With the victory, Tartans coach Tony Wingen surpassed F.M. Cratsley (1949–1966) on the all-time wins list with 174 wins during his 16 years as the Tartans men's basketball coach.

The Tartans looked to continue

break trailing Chicago by 10, 33–43.

In the second half, the Tartans slowly began to find the basket and finally took their first lead of the game on a Straub three-pointer with 3:42 left in the game to put the Tartans ahead 66–65. Carnegie Mellon never looked back as they continued to put points on the board until the final buzzer. Despite going nearly 37 minutes without leading, the Tartans pulled out the victory 76–67.

“It was a good win for us,” said Maurer, a senior, who led the Tartans with 26 points. “We went almost the entire game without leading, so the fact that we were able to pull out this victory means a lot and shows that we're never out of it.”

Senior Marques Johnson, who scored 14 points, said it was a satisfying win. “After dropping a game in overtime to them last week, and then trailing most of today's game, it felt good to pull out a victory since every win against a UAA opponent is a crucial one.”

The Tartans head into next weekend as the top team in the UAA as they play host to NYU and Brandeis. The first game is in Skibo Gymnasium on Friday at 8 pm.

**“We went almost the entire game without leading, so the fact that we were able to pull out this victory means a lot and shows that we're never out of it.”**

**—Nate Maurer**

their success going into Sunday's match against the University of Chicago Maroons. The team was looking for revenge after falling to the Maroons 77–80 in OT last Friday.

Carnegie Mellon came out of the gate cold and quickly found themselves down 0–13. The Tartans continued to struggle with their shooting throughout the first half and went into the



Marcus Gho/Senior Photo Staff

Senior forward Clayton Barlow-Wilcox recovered the lead for the Tartans in the second half against Washington University. Men's basketball won 79–72 against Washington and then 76–67 against Chicago on Sunday.