

MIT's
Oldest and Largest
Newspaper



The Weather
Today: Rainy, 55°F (13°C)
Tonight: Colder, 39°F (4°C)
Tomorrow: Partly cloudy,
52°F (11°C)
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Volume 127, Number 52

Cambridge, Massachusetts 02139

Tuesday, November 6, 2007

Endowment Reaches Nearly \$10 Billion, Rises 19 Percent in 2007

By Joyce Kwan
NEWS EDITOR

MIT's endowment increased by \$1.6 billion, or 19.3 percent, during the 2007 fiscal year, reaching a total of \$9.98 billion. The increase resulted primarily from investment returns of 22.1 percent, as reported by the MIT Investment Management Company.

"Other factors influencing the 19% increase were new gifts received minus funds distributed for support of the Institute's mission," Theresa M. Stone SM '76, executive vice president and treasurer, said in an e-mail. For the past 10 years, the Institute's endowment has returned an average of 15.3 percent per year.

During the 2006 fiscal year, the MIT endowment totaled \$8.36 billion, increasing \$1.7 billion over the previous year's endowment. The rate of return on investments for the 2006 fiscal year was approximately 23 percent.

The endowment provides support for "scholarships, professorial chairs, student life, and other operating and strategic activities," Stone said.

Over the 2007 fiscal year, which ended June 30, support from the endowment totaled more than \$347.5

million (or 4.7 percent of the endowment), compared to \$323.0 million in 2006, according to the treasurer's report.

From MITIMCo's diversified portfolio, investment gains were widely spread. Real estate, private equity, and domestic and international equities performed especially well, according to the MIT News Office.

During the 2007 fiscal year, MIT raised a total of \$332 million through a variety of gifts, many of which "were directed toward the endowment, while others support current activities or building projects," Stone said in the e-mail. "The overall total represented an all time high."

As of June 30, MIT has the sixth largest university endowment in the nation. Harvard University has the largest endowment with \$34.9 billion, followed by Yale, Stanford, and Princeton Universities and the University of Texas system. Harvard's rate of return was 23.0 percent in 2007.

Yale saw the greatest return in 2007 with 28.0 percent, bringing its endowment to a total of \$22.5 billion. In the realm of academic investments, Yale has led investment returns over the past decade with an average an-

nual return of 17.8 percent. Amherst College came second in performance with a return of 27.8 percent to increase its endowment to \$1.7 billion.

It is important to measure endowment performance relative to an internal benchmark, an expert told *The New York Times*. For example, the Wilshire 5000 or the S&P index could serve as benchmarks for equities. Just as important is an endowment's performance in context of competing institutions.

MITIMCo, a division of MIT, manages and oversees the investment of the Institute's endowment, retirement funds, and operating funds. By the end of the 2007 fiscal year, it had a total of \$14.0 billion in assets under its management. MITIMCo's president is Seth Alexander, a former director at the Yale Investment Office. Alexander is the company's second president, following Allan S. Bufferd '59 who became MITIMCo's first president in July 2004.

"The Resource Development team always strives to increase the pool of donors who support MIT financially and the amount of resources raised, and aspirations for 2008 are no different," Stone said in the e-mail.



ERIC D. SCHMIEDL—THE TECH

MIT hackers — dressed in "V" costumes from the film "V for Vendetta" — marched to the Undergraduate Association Senate meeting last night where they gave a short speech and then set off party poppers in honor of Guy Fawkes Day.

Popularity in Brain Science Grows As More Students Join Course IX

By Lulu Wang

In recent years, the Department of Brain and Cognitive Sciences has seen increases in size and renown. Situated at the corner of Vassar and

Feature

Main Streets, the glass-paneled building, which houses the Picower Institute for Learning and Memory and the Mc-

Govern Institute for Brain Research, is also home to both the graduate and undergraduate Course IX programs.

The graduate program was founded in the 1960s, followed by the undergraduate program in the 1980s. The department joined the School of Science in 1993.

The department currently has 163 undergraduate students and 93 gradu-

ate students, as well as 47 faculty members. With a 10 percent annual increase in enrollment since 1999, Course IX is a rapidly expanding major. The major focuses on the study of the human brain from the molecular level to the brain's effect on human interaction.

The department is still constantly changing, said Susan S. Lanza, BCS undergraduate administrator. New classes and seminars are added, and feedback from students and faculty allow the program to continue to develop. Lanza also said that changes are initiated to keep up with current research and to integrate new faculty hires.

For students, these changes mean both more focused classes in specific

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Solar Decathlon Places 13th in DOE Competition To Build a Solar Home

By Jeff Guo
STAFF REPORTER

The MIT Solar Decathlon team placed 13th out of 20 teams in the Department of Energy competition to build a practical solar home. MIT's entry, a house called "Solar 7," earned top marks for its efficient use of solar energy but lost points in architecture and market viability. MIT competed in the competition for the first time this year.

Solar 7 placed eighth for engi-

neering and sixth in a distance competition in which the team drove an electric car charged by the house.

The house was one of seven to win full marks for using less energy than its solar panels generated. But Solar 7 placed 19th in architecture, 19th in lighting, and 20th in market viability, which measures the market appeal of the house.

The DOE Solar Decathlon, which

Solar 7, Page 13

Simpson Hearing for Motion to Dismiss Scheduled Dec. 3

Star A. Simpson '10 attended a status hearing at East Boston District Court yesterday morning. At the courthouse, a hearing for motion to dismiss was scheduled for Dec. 3. Simpson is charged with possession of a hoax device for appearing at Logan International Airport wearing a circuit board with light-emitting diodes that was mistaken for a bomb.

News Briefs

Simpson's defense attorney, Tom Dwyer, told *The Tech* that the case is progressing along a "normal time period." "If the case ends on Dec. 3, which it will, that's fast," Dwyer said.

—Emily Prentice

In Short

¶ A memorial service for Hollis M. Lilly, staff associate in the Office of Undergraduate Advising and Academic Programming, will be held Thursday, Nov. 8 at 3:30 p.m. in the MIT Chapel. A reception will follow in the W11 Main Dining Room. All are invited. Lilly

passed away July 28.

¶ Free flu shots for students will be available Thursday, Nov. 8 from 12:30–3:30 p.m. in the Student Center's Private Dining Rooms 1 and 2. The Flu Shot Clinic is sponsored by MIT MedLinks.

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MICHAEL MCGRAW-HERDEG—THE TECH

About a dozen students showed up in Scheme-themed Halloween costumes to the Oct. 30 Structure and Interpretation of Computer Programs (6.001) lecture. This is the last semester that 6.001 will be offered.

WORLD & NATION

Bush Pledges Increased Cooperation With Turkey

By Steven Lee Myers

THE NEW YORK TIMES

WASHINGTON

President Bush pledged Monday to increase intelligence cooperation with Turkey in its fight against Kurdish rebels, hoping to head off any significant Turkish military operation in Iraq.

Meeting in the White House with Turkey's prime minister, Recep Tayyip Erdogan, Bush declined to say how the United States would respond if Turkish forces entered northern Iraq, dismissing it as a hypothetical question that, he said, Erdogan himself had asked.

Instead, Bush promised that the American and Turkish militaries — allies in NATO — would work together to fight the Kurdistan Workers Party, or PKK, which he called “an enemy of Turkey, a free Iraq and the United States of America.”

“I can tell you that we — he asked what would my reaction be if there was an attack,” Bush said, sitting beside Erdogan in the Oval Office. “Well, that’s a hypothetical question. But what we did talk about is to make sure that there is good enough intelligence so that we can help deal with a common problem, and that problem is a terrorist organization called PKK.”

Google Will Spearhead Mobile Computer Project

By Miguel Helft and John Markoff

THE NEW YORK TIMES

SAN FRANCISCO

What Apple began with its iPhone, Google is hoping to accelerate with an ambitious plan to make the software at the heart of cell phones.

The personal computer is climbing off of its desktop perch and hopping into the pockets of millions of people. The resulting merger of computing and communications is likely to transform the telecommunications industry as thoroughly as the PC changed the computing world in the early 1980s.

Google, which wants to be as central to the coming wireless Web as it is on today's PC-dominated Internet, announced on Monday that it was leading a broad industry effort to develop new software technologies aimed at turning cell phones into powerful mobile computers.

If successful, the effort will usher in new mobile devices that, like the iPhone, will make it easier to use the Internet on the go. The phones, which would run on software that Google would give away to phone makers, could be cheaper and easier to customize.

Italy Arrests Top Boss In Sicilian Mafia

By Elisabetta Povoledo

THE NEW YORK TIMES

MILAN, ITALY

One of the most powerful bosses in the Sicilian Mafia was arrested on Monday, according to the Italian authorities.

The man identified as the Mafia boss, Salvatore Lo Piccolo, was arrested and his son Sandro and two other people were detained during a raid on an isolated villa outside of Palermo, the police said.

The four, all of whom are on Italy's 30 most-wanted list, were holding a meeting when their hide-out was surrounded by some three dozen police officers, according to the Palermo police chief, Giuseppe Caruso. The four gave themselves up after officers fired warning shots in the air.

Lo Piccolo, 65, has been on the run since he was convicted of murder in 1983. According to Caruso, he took over the top Mafia post after the arrest in April 2006 of the so-called boss of all bosses at the time, Bernardo Provenzano.

The arrests on Monday — which happened to be Italy's annual day of mourning for Mafia victims — followed a series of raids and arrests over the last 18 months that Caruso said had effectively decapitated the group. “These four were the last on our list,” he said.

Musharraf Urged to Reverse Course, Hold Elections Soon

By Mark Mazzetti

THE NEW YORK TIMES

WASHINGTON

President Bush on Monday urged Gen. Pervez Musharraf, the Pakistani president, to hold elections and give up his army post “as soon as possible,” but gave no indication that the general's imposition of emergency rule would bring about any significant change in American policy.

The comments were the first by Bush since Musharraf's move over the weekend ignited a constitutional crisis. Bush would not comment about what the United States might do if the Pakistani leader ignored the pleas, saying only, “I hope he takes my advice.”

Bush also praised Musharraf as a “strong fighter against extremists and radicals.”

Over the past year, senior lawmakers in Congress have sometimes warned that aid to Pakistan could be in jeopardy if Musharraf did not act aggressively against Islamic militants, and White House officials have sometimes used those threats in private meetings to press the Pakistani leader.

But there was no sign on Monday that Democratic leaders in Congress would try to push Bush to cut aid to

Pakistan now. Sen. Jack Reed, D-R.I., a member of the Armed Services Committee who has publicly criticized Pakistan over its efforts to counter terrorism, said it was important to maintain a “constructive dialogue” with Pakistan and that dialogue could be lost if Congress were to reduce the flow of money to Islamabad.

A Bush administration official who works on Pakistan issues acknowledged that with the United States' having already invested so much in Musharraf, there was little Washington could do in response to the Pakistani president's actions that did not have the potential to undermine American goals.

“When you owe the bank a million dollars, you have a problem; but when you owe the bank \$100 million, the bank has a problem,” he said. The official, like some others interviewed, spoke on the condition of anonymity because he was not authorized to discuss the subject publicly.

Democratic presidential candidates have seized on the weekend's events to criticize the close ties the White House has nurtured with Musharraf since the Sept. 11 attacks. Aid has included more than \$10 billion in assistance, most of

it to the military, to help root out Qaida and Taliban operatives in the country's mountainous tribal areas.

Sen. Hillary Rodham Clinton, D-N.Y., called the Bush administration's approach to Pakistan “fundamentally incoherent.” Yet neither Clinton nor any of her fellow candidates offered details about how they would chart a different course than the one that the White House has followed for the past six years.

Sen. Joseph R. Biden Jr., D-Del., the chairman of the Senate Foreign Relations Committee, said in an interview Monday that it was likely that Musharraf decided he could defy the United States in part because “we convinced him we had a buddy here that no administration was going to walk away from.”

Biden said Musharraf should proceed with elections in January, set up an independent commission to ensure that the elections are fair and reach a political deal with Benazir Bhutto, the former prime minister who the United States hopes can negotiate a power sharing arrangement with the general. “If that didn't work out, I'd get on the right side of history. I'd cut off support,” he said.

Israeli and Palestinian Officials Say They Hope for Accord Soon

By Helene Cooper

THE NEW YORK TIMES

RAMALLAH, WEST BANK

Israeli and Palestinian officials hope to reach a comprehensive peace agreement before the end of President Bush's term, Israeli, Palestinian and American officials said Monday.

That goal fits with Secretary of State Condoleezza Rice's efforts to push the two sides toward a peace plan during her tenure. The Palestinian president, Mahmoud Abbas, and Prime Minister Ehud Olmert of Israel said that they would use the coming Middle East peace conference in Annapolis, Md., to begin substantive talks on the four contentious final status issues that have bedeviled peace negotiators since 1979.

“The American, Israeli and Palestinian sides are all insistent that we reach an end before the end of President Bush's term in office, and that

is what we wish,” Abbas told a news conference here at Yasser Arafat's old compound. Standing beside him, Rice nodded approvingly.

Olmert strongly endorsed the peace talks in a speech to a Jerusalem audience the night before. While the Palestinians pushed hard for the conference to tackle the final status issues, the Israelis had balked, saying they wanted security needs met first.

Olmert, conceding nothing on the security question, said, “Annapolis will be the jumping-off point for continued serious and in-depth negotiations which will not avoid any issue or ignore any division which has clouded our relations with the Palestinian people for many years.”

But in his speech, delivered in Hebrew and broadcast live in Israel, Olmert cast the issue of a timetable far more cautiously than did Abbas. “If we and the Palestinians act with

determination,” he said, “there is a chance that we can achieve real accomplishments, perhaps even before the end of President Bush's term in office.”

Palestinian and Israeli negotiators will continue to haggle over just how hard and firm the Annapolis commitment to final status negotiations should be, but the public endorsement of something like a timetable is a positive sign that Annapolis will be the starting point for substantive peace negotiations, Israeli, Arab and American officials said.

Rice's aides were jubilant. “We didn't expect him to talk about negotiating on all the issues,” a senior State Department official said of Olmert's speech. “I found it frankly remarkable that he would choose the podium there, where he knew that audience would be watching for a signal.”

WEATHER

The Third Noel

By Brian H. Tang
STAFF METEOROLOGIST

Twice before has Hurricane Noel spun across the open waters of the North Atlantic, but the Noels of 1995 and 2001 were only storms for the fish as neither threatened any land mass. Hurricane Noel of 2007 proved much different and will likely be the most fatal of this year's Atlantic hurricanes as it inflicted parts of Hispanola with 20 inches (50 cm) of rain, causing devastating mudslides.

As Noel roared up the East Coast, it transitioned in to a hybrid hurricane-nor'easter where it received an injection of energy from large temperature gradients along the coast. Winds gusted close to 80 mph (130 kph) on Cape Cod and Nantucket and a whopping 110 mph (180 kph) at Wreckhouse, Newfoundland. On campus, the gusts were much tamer but were still able to drive the rain sideways and invert umbrellas.

Large storms usually herald changes in the overall weather pattern and Noel is no exception. A front passing through today will draw a cold air mass down from Canada giving the campus below normal temperatures through the weekend despite ample sunshine.

Extended Forecast

Today: Rainy and breezy. High 55°F (13°C).

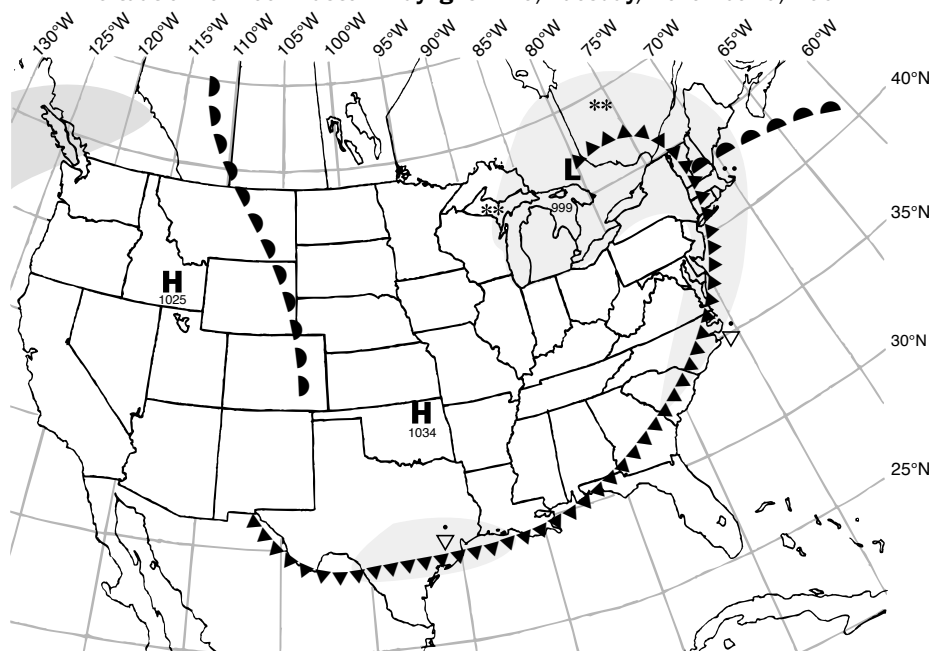
Tonight: Clearing and becoming colder. Low 39°F (4°C).

Tomorrow: Partly cloudy. High 52°F (11°C).

Tomorrow night: Clear and cold. Low 34°F (1°C).

Thursday: Sunny and chilly. High 47°F (8°C).

Situation for Noon Eastern Daylight Time, Tuesday, November 6, 2007



Weather Systems	Weather Fronts	Precipitation Symbols	Other Symbols
H High Pressure	- - - Trough	Snow *	Fog
L Low Pressure	—••• Warm Front	Rain ▽	Thunderstorm
§ Hurricane	▲▲▲ Cold Front	Light *	Haze
	▲▲▲ Stationary Front	Moderate **	
		Heavy ***	

Compiled by MIT Meteorology Staff and The Tech

Bayer Pulls Heart Surgery Drug From Market After Controversy

By Gardiner Harris
THE NEW YORK TIMES

WASHINGTON

Pressured by regulators, the German pharmaceutical giant Bayer AG announced on Monday that it had agreed to withdraw the controversial heart surgery drug Trasylol after a Canadian study suggested that it increased death rates.

Dr. John K. Jenkins, a leading official of the Food and Drug Administration, said, "FDA could not identify a specific patient population where the benefits of using Trasylol could outweigh the risks."

Because of concerns that supplies of alternative medicines could run short, the agency has asked for a phased withdrawal of the drug, which is given before heart surgery

to reduce the risks of excessive bleeding.

Bayer said in a statement that it still believed Trasylol was beneficial when used as directed. The FDA said it would try to accommodate doctors who still wanted to use the drug by allowing Bayer to provide it as part of a study.

About 200,000 patients around the world received Trasylol last year, 110,000 of them in the United States, Bayer said. The drug, known generically as aprotinin, has had FDA approval since 1993.

Two weeks ago, researchers from the Ottawa Health Research Institute stopped a study of Trasylol in 3,000 heart bypass and valve surgery patients because although those given the drug bled less, they were half

again as likely to die as those given two older alternatives. With the results so preliminary, the circumstances and timing of the deaths are among factors still unclear.

The researchers said the overall numbers were not large enough to be statistically significant, but that may have been because the study was not given enough time.

"The fact that this trial was stopped early weighed heavily in our decision" to request withdrawal of the drug, Jenkins said.

The FDA had asked the researchers and Canadian health authorities for complete results of the study before making a decision. But when the researchers said they would need at least six more weeks to comply, the agency decided to act.

Thousands of Movie and TV Writers On Strike Over Stake in New Media

By Michael Cieply, David Carr and Brooks Barnes
THE NEW YORK TIMES

LOS ANGELES

Hollywood writers took to the sidewalks, if not quite the streets, Monday, as last-ditch bargaining failed to avert the first industrywide strike in more than 19 years.

Just after midnight, about 12,000 movie and television writers represented by the Writers Guild of America East and the Writers Guild of America West went on strike against Hollywood producers represented by the Alliance of Motion Picture and Television Producers.

Picket lines went up at more than a dozen studios and other production

sites on both coasts. And at least a handful of television shows — including the CBS series "The Big Bang Theory" and "Two and a Half Men" — quickly shut down.

But it was not immediately clear how much damage the writers' actions would inflict on a sprawling industry that performs its labor in thousands of workplaces in America and abroad.

At the Fox lot in Los Angeles, about three dozen picketing writers were still getting the hang of things at 9:30 Monday morning. "Who's got the power?" a strike captain bellowed through a bullhorn, as the answer mostly got lost in the traffic sounds on Pico Boulevard.

They laid in bottled water by the

case, and came equipped with Black-Berries and backpacks for what promised to be a long day in the sun once the morning fog burned off.

Yet studio vans, transportation trucks and construction vehicles freely crossed the picket line as Fox shows like "24," "My Name Is Earl," and "Prison Break" remained in production, at least for the moment — perhaps quelling the writers' hope that a strong show of support by Hollywood's blue-collar workers would heighten the strike's effect.

In a telephone interview shortly afterward, J. Nicholas Counter III, president of the producers' alliance, said he expected the strike to be a long one.

Newspaper Circulation Figures Shrink Again

By Richard Perez-Pena

THE NEW YORK TIMES

The circulation declines of American newspapers continued over the spring and summer, as sales across the industry fell almost 3 percent compared with the year before, according to figures released Monday.

The drop, reported by the Audit Bureau of Circulations, reflects the growing shift of readers to the Internet, where newspaper readership has climbed, and also a strategy by many major papers to shed unprofitable or marginally profitable print circulation.

Among the nation's largest newspapers, only a handful held their own or registered slight increases in overall paid circulation for the period from April 1 to Sept. 30: *USA Today*, *The Philadelphia Inquirer*, *The Houston Chronicle*, and *The St. Petersburg Times*. Most papers showed significant declines, both weekday and Sunday.

For the first time, the audit bureau released, along with the traditional circulation figures, numbers produced by Scarborough Reports that reflected the total number of readers, both in print and online, for more than 200 newspapers in their home markets. For many of those papers, this marks the first time that such an independent analysis has been done, providing a benchmark for future reports.

Industry executives said they hoped the new numbers would put a more positive cast on newspapers' prospects than the routinely gloomy paid circulation reports have done.

MSNBC Finds Knocking Bush Helps Ratings

By Jacques Steinberg

THE NEW YORK TIMES

Riding a ratings wave from "Countdown With Keith Olbermann," a program that takes strong issue with the Bush administration, MSNBC is increasingly seeking to showcase its night-time lineup as a welcome haven for viewers of a similar mind.

Lest there be any doubt that the cable channel believes there is ratings gold in shows that bash the administration with the same vigor with which Fox News' hosts often champion it, two NBC executives acknowledged Monday that they were talking to Rosie O'Donnell about a prime-time show on MSNBC. During the nine months she spent on "The View" before departing abruptly last spring, O'Donnell raised viewership notably. She did so while lamenting the unabated casualties of the Iraq war and advocating the right to gay marriage, among other positions.

Under one option, O'Donnell would take the 9 p.m. slot each weeknight on MSNBC, pitting her against "Larry King Live" on CNN and "Hannity & Colmes" on Fox News.

Today you affected tomorrow's financial headlines. All in a day's work.

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Massachusetts Institute of Technology
Building 1, Room 1-190
Thursday November 8, 5:00 p.m.

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Corrections

The Nov. 2, 2007 news brief, "Tang Held Without Bail After Next House Stabbing," incorrectly referred to Wellesley junior Anna L. Tang's dangerousness hearing as Wolfe B. Styke's '10 hearing.

The Nov. 2, 2007 news article about video surveillance on campus listed Building 18 twice and omitted Building 6 when describing where the Chemistry Department has cameras. Chemistry's 30 cameras are primarily in Building 18, with a small number in Buildings 4 and 6.

An Oct. 30, 2007 page 1 caption of the Lobby 10 booth for APO's Unholiest huMan on Campus competition misspelled the name of one person at the booth. The correct spelling of the name of the student on the right is Kristina K. Brown '09, not Kristin K. Brown.

Letters To The Editor

Free Speech Does Not Guarantee Employment

In response to Ali S. Wyne's Nov. 2, 2007 letter to the editor, "On Intellectual Imprisonment":

James Watson retired, an (ostensibly)

voluntary move. If he had had more conviction he could have stuck with his guns and gone down for his beliefs. Challenging the "privilege of powerful interests" generally requires (at the very least) some persistence and toughness.

Aside from that, Cold Spring Harbor Laboratory is a private institution (see <http://www.cshl.edu/>). It cannot restrict people's speech (in most cases), but it CAN decide who it will or

won't employ.

James Watson is entitled to his freedom of speech, but the rest of us have the freedom to choose not to engage in private business with him (except where federal, state, or local laws dictate otherwise), since freedom of speech does not include a clause which guarantees employment. Maybe James Watson should apply for a government job.

Joseph E. Cooper '08



"I need your help to be prepared psychologically for \$100-a-barrel oil."



Opinion Policy

Editorials are the official opinion of *The Tech*. They are written by the editorial board, which consists of Chairman Michael McGraw-Herdeg, Editor in Chief Angeline Wang, Managing Editor Austin Chu, Opinion Editor Aditya Kohli, and Contributing Editor Rosa Cao.

Dissents are the opinions of signed members of the editorial board choosing to publish their disagreement with the editorial.

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November 6, 2007

COMICS

The Tech

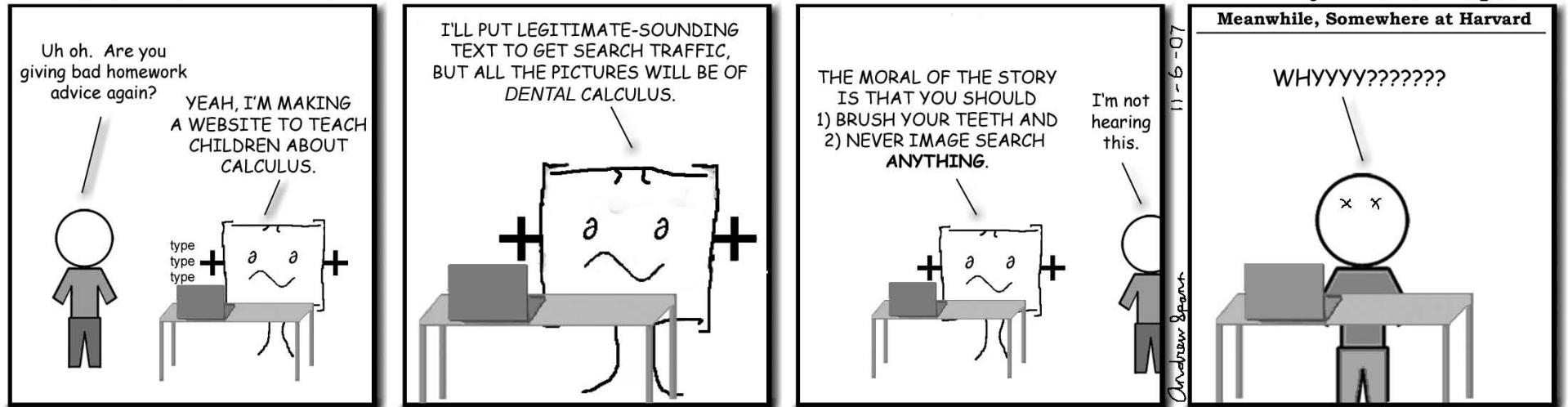
FUN

Page 5

PAGES

PROOF OF FALSE

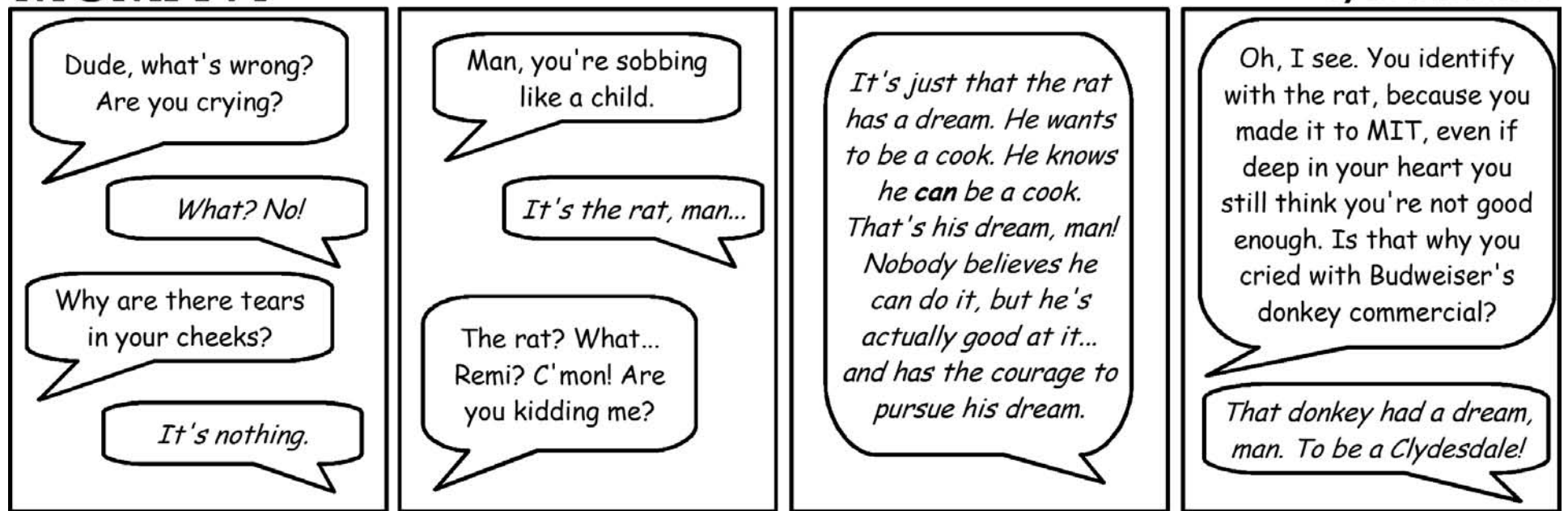
by Andrew Spann



Proof of False Archive: <http://web.mit.edu/spann/Public/ProofofFalseComic/>

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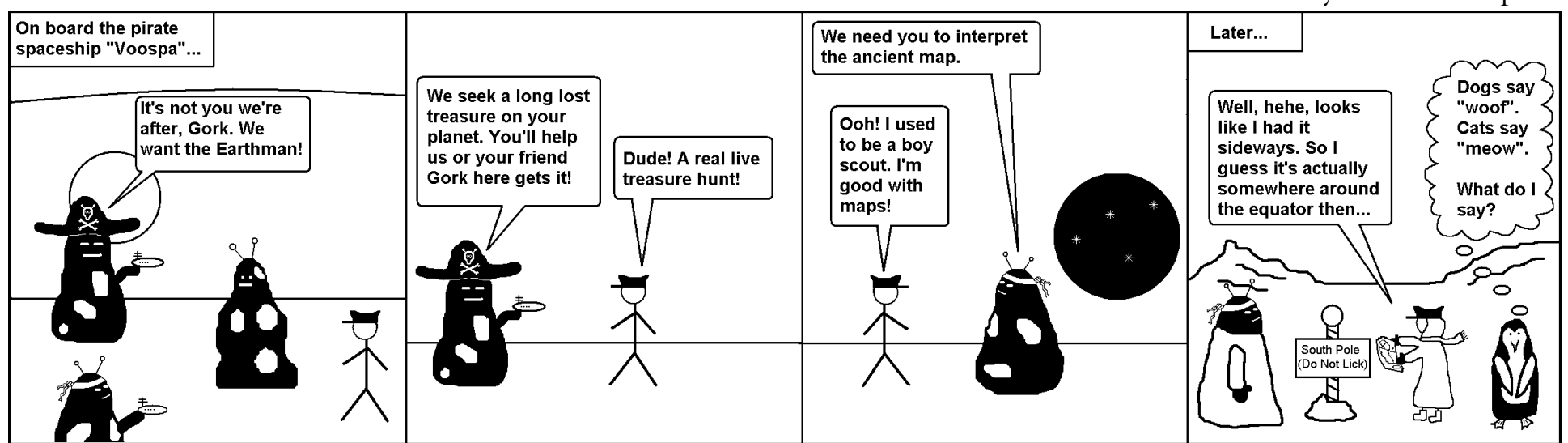


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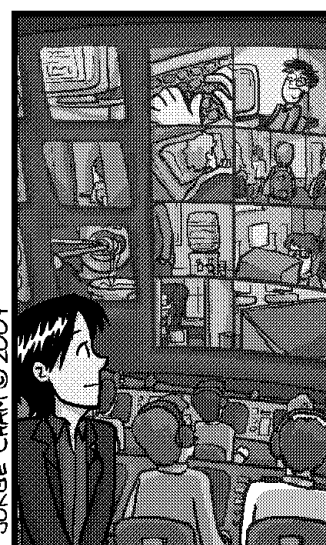
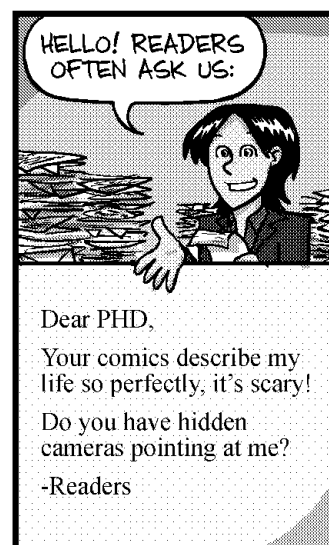
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by Roxana Safipour



PHD

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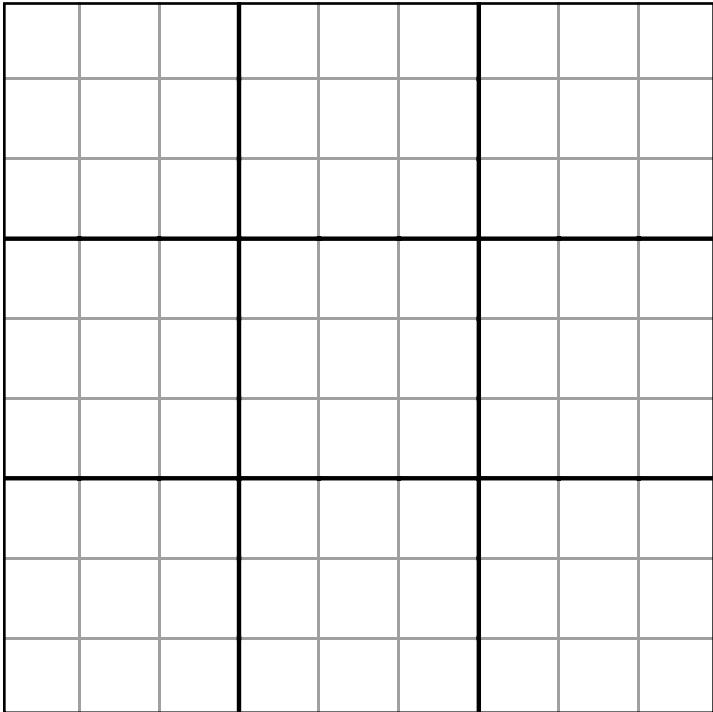


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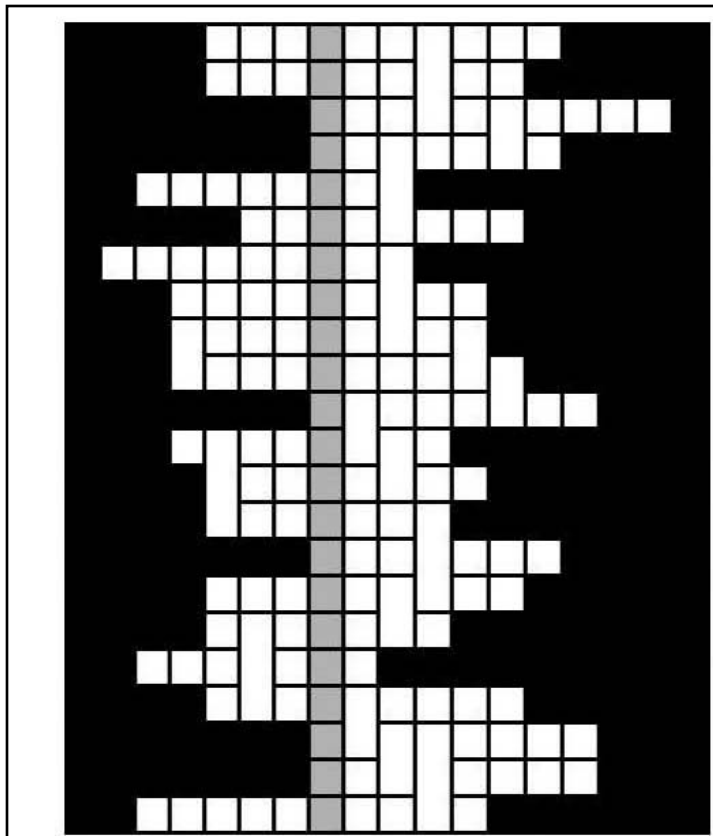
su | do | ku

Instructions: Fill in the grid so that each column, row, and 3 by 3 grid contains exactly one of each of the digits 1 through 9.

© Puzzles by Pappocom



Solution, tips, and computer program at <http://www.sudoku.com>. See also solution, page 9.



- Where can I find information on agricultural economics? (8)
- Where can I find a list of definitions of the various methods of incorporation? (10)
- Where can I find yield curve analysis information? (9)
- How can I find a directory of high tech companies? (8)
- Where can I find information on obsolete securities? (10)
- Where can I find information about financial models? (7)
- How can I find what people are searching on the internet? (9)
- How can I access statistical information for the EU? (8)
- Where can I find changes in companies' management? (7)
- Where can I find international statistical agencies on the Web? (8)
- How can I find information on nonprofit organizations? (9)
- Where can I find housing data from the U.S. government? (7)
- Where can I find transcripts of conference calls? (9)
- Where can I find information on social networking? (____ Research) (7)
- Where can I find information on worldwide wages and fringe benefits? (____ Internet) (8)
- How do I find SEC filings? (10)
- Where can I find all common stocks listed on an exchange? (____ Online) (8)
- Where can I find national accounts variables expressed in a common set of prices in a common currency? (____ Tables) (9)
- How do I find information on the sports industry? (____ Research Online) (8)
- Where can I find data on world supply and consumption of oil? (10)
- How do I find betas for companies or industries? (____ Investment Survey) (9)
- How do I find career information about management consulting? (____ Career Library) (7)

Think you've solved it?

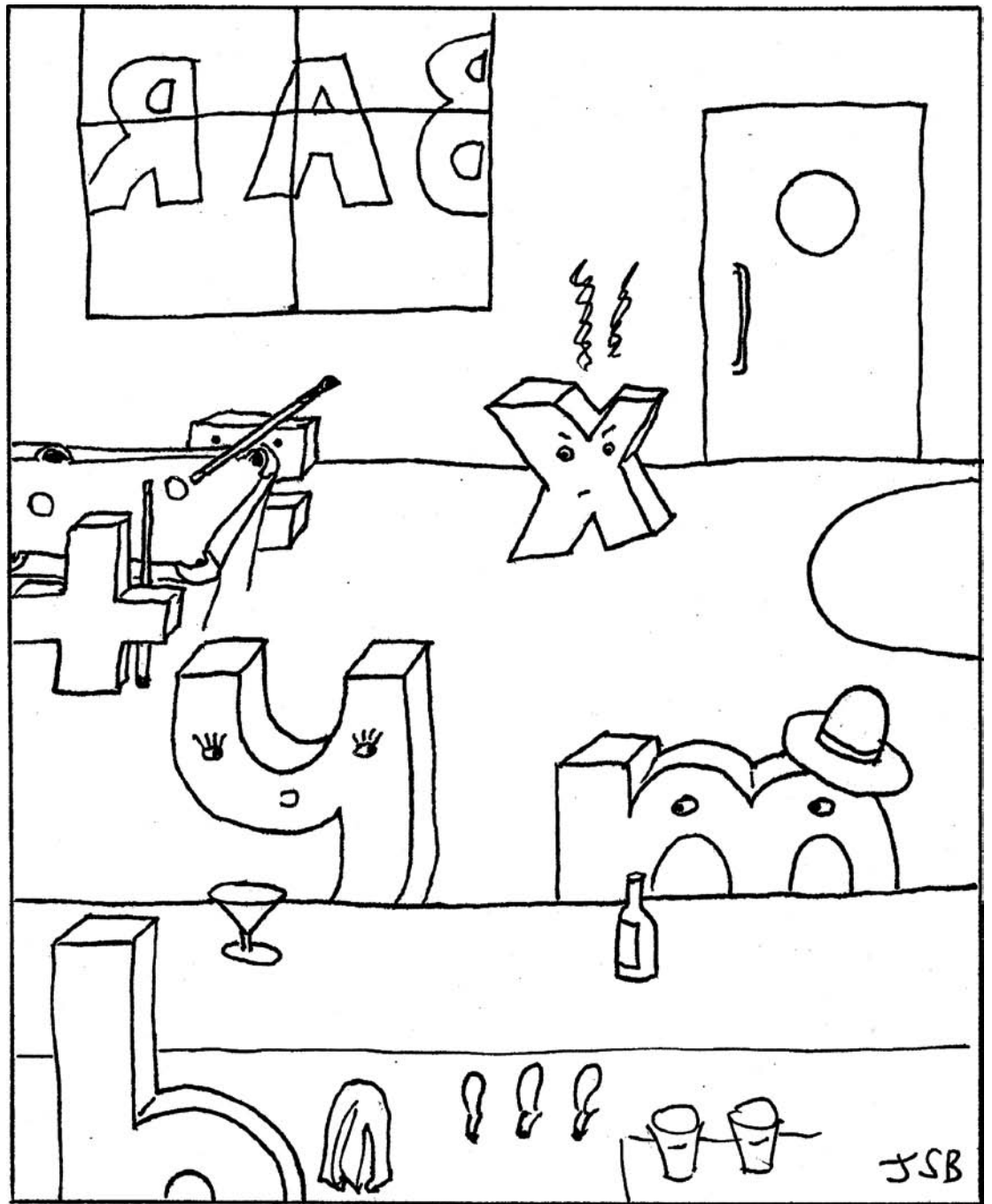
If you're an MIT student and your answer is correct, you could win a new iPod Nano! Go to libraries.mit.edu/puzzle to get a copy or submit your answer by November 20, 2007 to be eligible for the drawing.



CONGRATULATIONS TO LAST WEEK'S WINNER, MERGEN NACHINI!

Mad Science

by Scott Berdahl



"Oh, great, here comes my ex."



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Crossword Puzzle

Solution, page 9

ACROSS

- 1 Indian rulers
- 6 Minor tender in India
- 10 Outer banana
- 14 Appliance brand
- 15 Skywalker's sister
- 16 Make over
- 17 Swap stories
- 19 Cogito-sum link
- 20 Meteor tail?
- 21 Trig function
- 22 Four-time Indy 500 winner
- 24 Repudiates
- 26 Between ports
- 27 Swap stories
- 32 Where the Salmon runs
- 35 Skirt ring
- 36 Hall-of-Famer Traynor
- 37 ___ Hari
- 38 Ratify
- 40 Old capital of West

Germany

- 41 Fuss
- 42 Boater's walkway
- 43 Dog treats, often
- 44 Swap stories
- 48 "___ Lang Syne"
- 49 Formless seat
- 53 S.O.S. rival
- 56 Fibber
- 57 Spanish cheer
- 58 Banjoist Scruggs
- 59 Swap stories
- 62 A&P competitor
- 63 Polynesian beverage
- 64 Ill-equipped
- 65 Vegan's no-no
- 66 Leg part
- 67 Black-footed albatross

DOWN

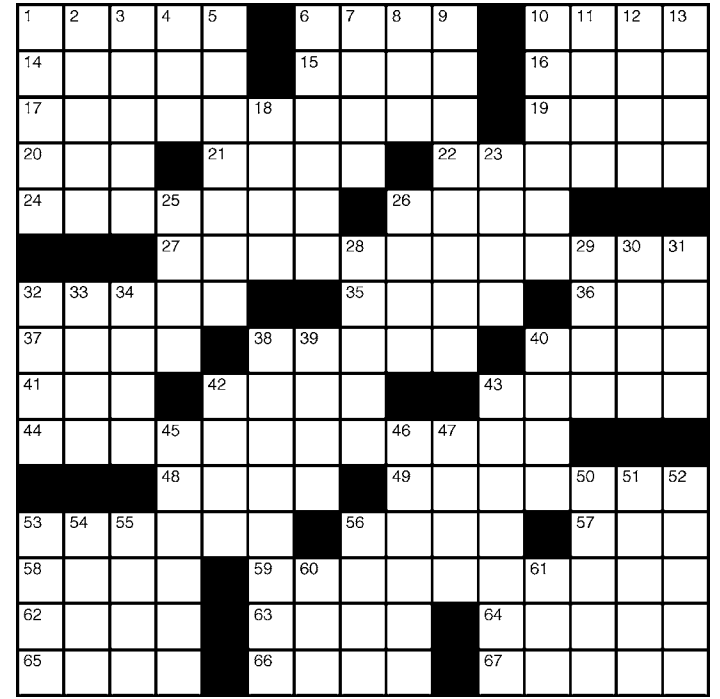
- 1 Fanatical
- 2 Famed violin maker

3 Austen and Alexander

- 4 Moreover
- 5 You and what army?
- 6 King in "The Tempest"
- 7 No more than
- 8 Lend support
- 9 Could succeed
- 10 Ready-made
- 11 Architect Saarinen
- 12 On pins and needles
- 13 Pirate's take
- 18 Skid row bum
- 23 Rugged vehicle
- 25 Workplace watchdog org.
- 26 Resting on
- 28 Androcles' extraction
- 29 On top of
- 30 Queue
- 31 Eye part

32 Apple PC

- 33 Woodworking channel
- 34 Molecule part
- 38 Pump intake stoppages
- 39 Legal title
- 40 Deck officer, briefly
- 42 Beatles bassist
- 43 Tight embrace
- 45 Straw bed
- 46 Luke's Jedi mentor
- 47 Mamilla
- 50 Very successful
- 51 Author Lesage
- 52 J. Paul ___
- 53 Smile broadly
- 54 Track event
- 55 Author Rombauer
- 56 First name in jeans
- 60 So there!
- 61 Rock producer Brian



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CAMPUS LIFE

Squid vs. Whale

Beaver Tales

By Charles Lin
STAFF COLUMNIST

Being an industrious little beaver, I held down two jobs the year before graduate school. By day, I was a lab rat, fearlessly pipetting small volumes of liquid back and forth. By evening, and on the weekends, I worked on a horse farm in rural North Carolina. They were essentially the same job; all you had to do was replace "pipetting, small volumes, and liquid" with "shoveling, large volumes, and poop."

Down by the river on the trails one day, the owner and I rode past a newly established beaver den. As the beaver is our mascot, I thought I'd share the tale of my dealings with an actual beaver. Besides, how many of you reading this column have seen a live beaver in the wild? Go ahead and raise your hands right now. That's right, I didn't think so.

Being industrious little beavers, they had dammed up the stream by moving little sticks back and forth. (Hey, just like my job!) In the process, they had cleared out a sizeable plot of land, leaving only half chewed sapling trunks in the area. Though I have to commend them for their persistence, their dam was pretty sub par. Up until this point in my life, when I thought of beaver dams, I conjured up images of neatly stacked logs, topped with a quaint and

comfortable den. Mr. Beaver was also guiding the children to Aslan.

This preconception of mine could not have been further from the truth. First off, there was no way Peter, Susan, and Lucy could have spent the night in the beaver den. And to add insult to injury, the Mrs. Beaver I knew didn't look like she was a very competent cook. In addition to those glaring discrepancies, if you've ever seen a real beaver, they pretty much resemble nibbling, muddy, and oversized rats.

The term "Brass Rat" is not all that far off. Just add "muddy" and "evil."

Now why would I call a beaver evil? Why did Mr. I-was-ever-so-over-hunted Beaver deserve to be berated? I'll tell you why! He and his wife gnawed through a ridiculous amount of wood. They're freaking miniature logging tycoons!

The next time we returned to the dam, they had turned the surrounding quarter acre into a muddy tree-less cesspool. Come on beavers! Aren't you supposed to be known for your efficient and precise engineering? Your dam looks shabby and you've squandered a bunch of lum-

ber with your haphazard schematics. How on earth did you evolve into MIT students?

We were fed up with the beavers. One way or another, they had to go.

Though they were nuisances, we couldn't muster enough resentment to get our Elmer Fudd on and shoot the buggers. As luck would have it, the owners of the farm happened to be former beavers and had a soft spot for the little rat. It was as if they shared an unspoken bond forged through being forced to program in Scheme together.

Instead, we merely dozed their dam with the backhoe. Within a week it had been rebuilt. We dozed it again and again, but like a bad penny, it just kept showing up.

With no obvious solution in sight, the beaver problem drifted to the back of our minds only to be occasionally brought up every time we passed the monstrosity that was their dam. We were like angry neighborhood association members mortified by their tacky landscaping. I'm sure if they had put up plastic flamingos on their lawn we would have thrown them out by the scruff of their neck. But since they were not

technically violating any of the neighborhood association bylaws, we were reduced to petitions, angry newsletters, and veiled threats to shoot them in the bum with our air rifles.

Winter came and went, and we more or less forgot about them. The mares were foaling and we were too preoccupied to head down to their neck of the woods. We'd almost forgotten about them until one day we wandered back to a different part of the stream and saw a new and larger dam. Oh great, we thought.

Our indignation quickly faded as we examined the new dam. And who'da thunk! It was a magnificent work of engineering! It had a bowed shape like real dams. They had employed cross bracing and reinforced anchors. The thing probably displaced several tons of water. Sticks and mud! Can you believe it? On top of that, we didn't see a single felled tree in the area. The beavers had recycled fallen branches and trees!

After admiring their dam for some time, we headed back.

"So I guess the beavers can stay," I remarked.

"Yeah," the owner responded, "that was pretty neat."

We had been won over by their marvelous engineering.

Once a beaver, always a beaver.

We were fed up with the beavers. One way or another, they had to go.

Brouhaha Rhythm

A Bedtime Story

By Michael T. Lin
STAFF COLUMNIST

Once upon a time, I had no problem whatsoever getting up at 5 or 6 in the morning before heading to school. Obviously, I generally didn't get much in the way of rest that way, but that was during a time when I would prefer being able to eat my Lucky Charms without having to rush out the door. Plus, I also got the chance to see some very lovely sunrises.

Unexpectedly, this period of my life was as recent as my senior year of high school (apparently, my tastes in breakfast cereal become less nutritious as I get older). I can't quite figure what might have happened to me in the past two months to change me from the bright-eyed morning person I once was into a semi-comatose dust mite that will only leave the warmth of its linens to feed.

I can't imagine that my bed here is any more comfortable than the one I had at home, although the curtain of freshly-laundered socks hanging across my bunk does offer a certain coziness to the place. It's definitely not any warmer up here in Cambridge, a fact that becomes more and more evident with each pass-

ing day. So why do I enjoy my slumber so?

Skipping over the obvious answer (pssets), I'm going to instead attribute my newfound perpetual drowsiness to the fact that there's virtually nothing to do here in the early morning. The only things I'd find here when I awoke would be a still-sleeping roommate around whom I'd have to tip-toe and a still-sleeping campus with no one to talk to. Back home, if I got up early enough, I might seek out a guilty pleasure to pass the time (I'm referring here to 5:30 a.m. episodes of Voltron, stop snickering), but even that loses its shine when there aren't any parents to gleefully avoid.

Then again, it's possible my newfound affection for my covers might not even be a problem. After all, I still get up plenty early, even if the line between the breakfast hour and lunchtime has become blurred by the time I crawl out of bed. I don't have any particularly com-

elling reasons to get up earlier than I do now. After all, what could I do? Get in line early, in November weather, to go to the thrift store? I'd end up having to wear a coat so thick they'd think I was shoplifting. I could play some computer games, build a boat, or write a novel, but then I'd have nothing to do during my midlife crisis.

Don't get me wrong, I realize that there are plenty of things that I could do ... theoretically. Reading, that long-lost hobby, probably couldn't hurt. Of course, then I'd feel like a workaholic for getting up early to read about multivariable calculus. That, or I'd feel guilty for reading *121 of the World's Greatest Knock-Knock Jokes* instead of my book on multivariable calculus. Practicing a musical instrument might be a good idea, but I can't imagine there's much call for professional kazoo players. I don't think my hallmates would appreciate the loud buzzing of

I don't have any particularly compelling reasons to get up earlier than I do now. After all, what could I do? Get in line early to go to the thrift store?

French Class, Eh?

Becoming a Francophile

By David G. Shirokoff

I came to MIT to study math. Surprise. Modern math doctoral programs enforce the study of a foreign language. This is because there are significant intellectual contributions written in other languages, especially French, German, and Russian. In this regard, I am fortunate I chose MIT, since they only enforce the study of one foreign language while other schools like Berkeley and Princeton require two. To my Canuck counterparts from Québec, a French requirement is a welcome amusement. For me, French is a torment. Once a forgotten part of my past, this language has been awak-

ened from the grave, seeking revenge from many moons ago.

Growing up in a bilingual county, French was a required class from grades four to nine. In practice, this really only required the knowledge of several key words such as "buts" (goals), "pénalisation" (penalty) or "rondelle" (puck) in the event that only the French CBC covered the Montréal Canadiens (pronounced Mah-real Can-eh-diens) hockey game. Such a situation arose during the 1993 playoffs when Montréal played the then Québec Nordiques. Since every movie case, cereal box, and government form came branded in English and French, I decided

to be a good Canadian by adding grade 10 French in lieu of geography to my high school curriculum.

Shortly after

completing French that year, I saw a poster reminding me of the verb "savoir." I had a rush of joy, for I would never need "to know" that nauseating verb again. (Get it?) I was simply weary of French after having to write 100 words about an experience in my life. Maybe I just felt that *passé composé* could kiss my ...

Well, that rush of joy has run its course, because I'm now attempting to convert "je savais français" into "je sais français."

In anticipation for the MIT language requirement, I decided to sit in part time on an introductory French class. I attended the first day, planning to leave half way through to try and catch my (more important?) math class on time. Well, like everything else at MIT, even French classes are on steroids. In one hour, I didn't hear a lick of English — every command, every word, was spoken in French. In addition, I was blocked off from the door by an interactive forum that forbade my escape. Instead, I sacrificed the first

half hour of math to avoid the embarrassment of awkwardly easing out of my seat and catching the attention of *ma professeure*.

As the class dwindled to an end, we submitted a form revealing our personal background. While handing over the form, the professor casually asks me, "Ça va?"

Okay, this was one of the first French phrases we learned in grade four. In fact, we were taught to respond with one of four options: "Ça va très bien," "ça va bien," "comme ci comme ça," or "ça va mal." Instinctively, I coughed out a quick "ça va bien." She looked at my sheet "Ooh, grade 9-10 French," and immediately jumped to the conclusion, "Oh, this class is too easy for you."

I felt queasy — are you kidding me? I haven't taken French in seven years. This class is already injected with juice and you think it's too easy? She continued to gaze over my sheet and read, "Why am I interested in this class:

PhD requirement." Her response: "C'est dommage." She's right; it is too bad. As I left the class, I saw two of my mathmates arriving for the 10 a.m. show. "Good luck," I said. Walking down the hall, still shocked from the experience, I couldn't help but smile and think that I'd probably learn the best French of my life here.

Now here's the kicker. I spent a good portion of my time in grade 10 French doing math. Now years later, when I am supposed to be doing math, I must repay the time and learn some French. How did this happen?

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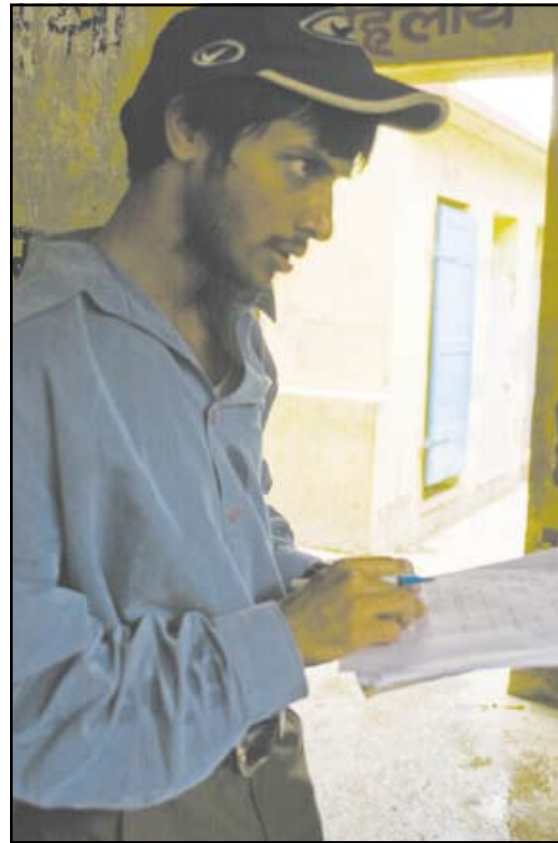
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Through My Eyes

Interviews in India

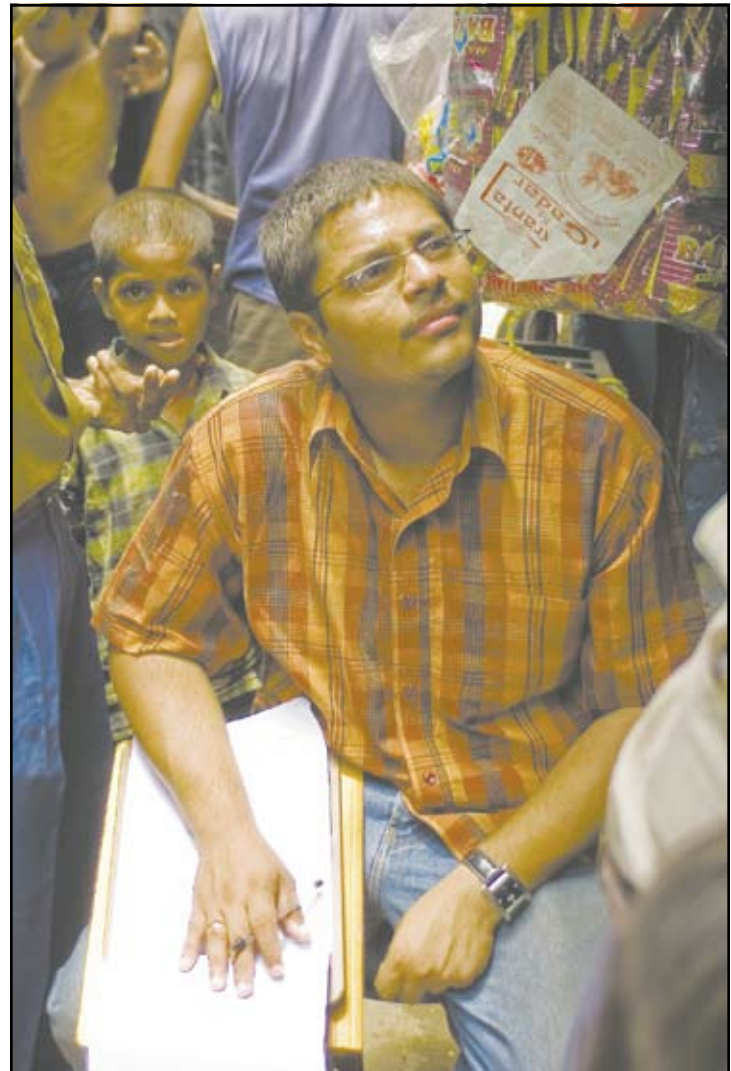
By Christina Kang
STAFF COLUMNIST

I became so comfortable in India that I began to feel as if I had been there for a long time. In reality, my time sped by. I became close to both the Indian and MIT students in the group and loved our conversations. Besides documenting the students' work, I had the opportunity to help them with theirs, eventually becoming a part of the community and project. The other MIT students and I really got a



CHRISTINA KANG—THE TECH

Musheer Riaz, a final year student at the Rai Foundation campus in Faridabad, India, interviews community members in the camps outside Delhi, India.



CHRISTINA KANG—THE TECH

Burra Dharani Dhar interviews camp dwellers outside of Delhi, India. Dhar is a final year student at the Rai Foundation in Faridabad, India.

chance to immerse ourselves completely in the Indian culture.

Trying to stay safe with food, the MIT students (all female) and I often ate at the canteen, the university's dining hall. We became friends with a large group of adorable Indian girls who were always excited to see us. They took delight in my attempts to sing and dance to some Hindi songs. They were also fascinated to learn that being skinny and tall is considered gorgeous in the United States. For many of them, going to a university in Delhi was the first time they had ever left their homes — with or without their parents. Most of them were studying to be airline hostesses.

Their whole situation was surprising to us as Americans. To leave home for the first time to attend a university seemed like a dramatic change. A degree specific to flight attendants was also a curiosity, since we were accustomed to a more generic degree program for the hospitality and service industries. It seemed out of place to be studying in a dusty, underdeveloped area near the camps of Delhi for a career on a technologically advanced plane.

I interviewed project members from both MIT and India. They were surveying the community members about their education and health for a local non-governmental organization, Deepalaya, and using the information they learned to create their own project on waste disposal. Interviewing Musheer and Dharani, the two male Indian students in the groups, it came to light that the biggest problem they



CHRISTINA KANG—THE TECH

Deepalaya students use a ramp outside their school as a slide during break. Deepalaya is a non-governmental organization that provides education to children, especially female students, from economically and socially weaker areas.

had encountered working on this project was the gender differences. They thought that any conflict of opinion within the group was caused by gender differences, not cultural differences (India vs. America).

The MIT students, on the other hand, thought that the varying opinions were caused by cultural differences. I brought this up while we were eating a delicious lunch of vegetable noodles, and the group came to the consensus that it must be both gender and cultural differences combined. The cultural difference of the genders is a big part, as neither of the boys had ever worked in the same group as a girl. The whole idea was new to them. The cultural differences between India and the United States were quite astounding and frustrating at times for the MIT students.

Our interviews were fairly informal be-

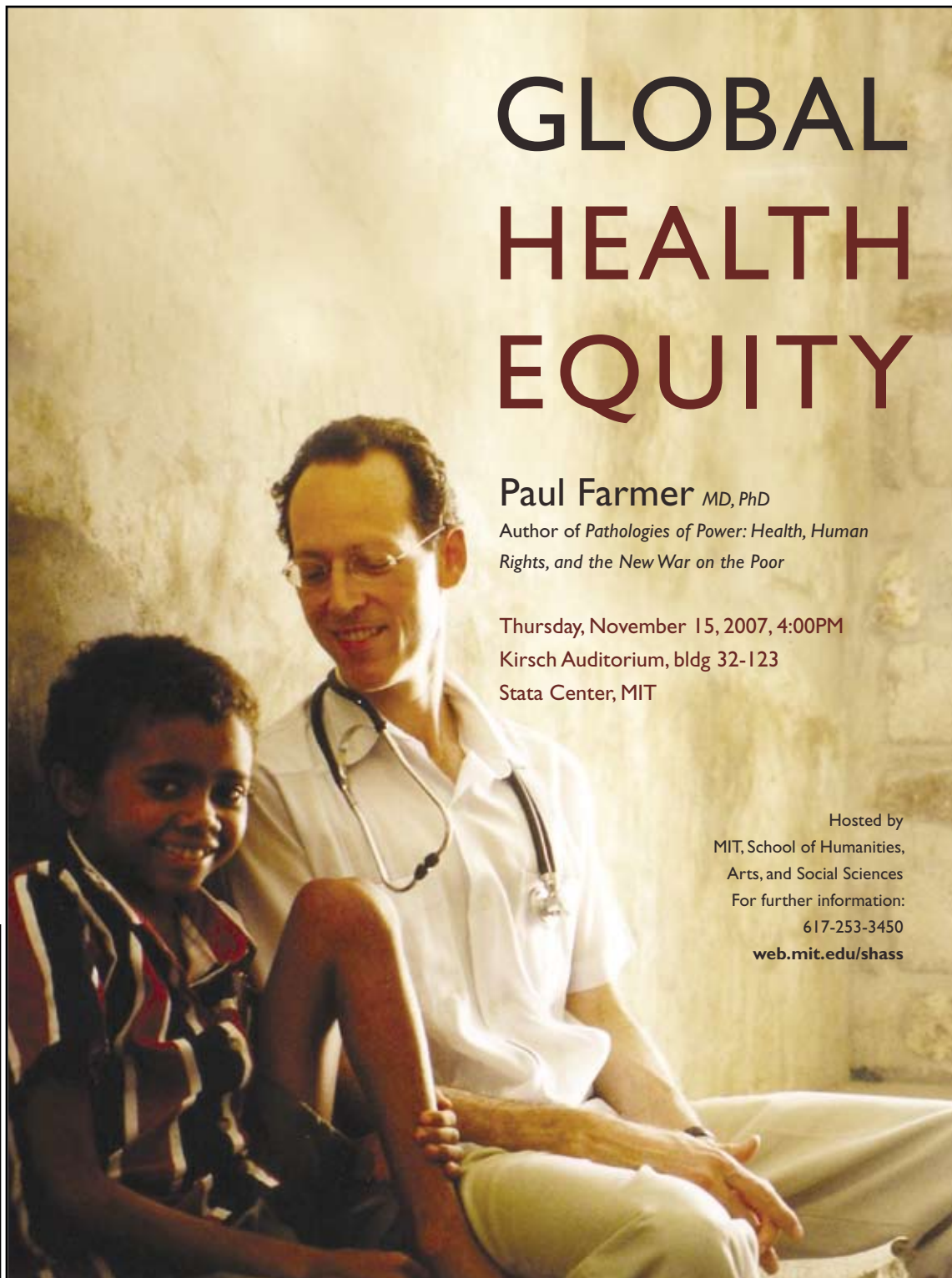
cause I had gotten to know all the group members well. I spent a lot of time with them and was on hand to experience much of what they talked about. For some of the MIT women, this summer experience convinced them they do not want to be a physician and some became certain that they do not want to work in a developing country. Others became even more sure they wanted to work in a developing country as a career. I was one of the latter. My naive desires solidified with experience. I'm even more certain that my "calling," if you will, involves working in developing countries. It was not what I expected, and it is far from all fun and games, but the rewards I felt and the degree to which I could make an impact are worth much more than any of the dangerous situations, pollution, odors, or cultural gaps I will have to bear.

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Solution to Sudoku
from page 6

Solution to Crossword
from page 7

R	A	J	A	S	A	M	A	H	P	E	E	L	
A	M	A	N	A	L	E	I	A	R	E	D	O	
B	A	N	D	Y	W	O	R	D	S	E	R	G	O
I	T	E	S	I	N	E	A	J	F	O	Y	T	
D	I	S	O	W	N	S	A	S	E	A			
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C	O	M	P	A	R	E	N	O	T	E	S		
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Move to Building 46 Unified BCS Faculty

Course IX, from Page 1

subjects and broader classes that cover basic brain and cognitive science concepts. These changes “are meant to allow students to have more exposure to things outside of the mainstream approach to learning,” Lanza said.

One of the greatest changes in recent years is the unification of BCS faculty in Building 46. Prior to the building’s opening in 2005, BCS faculty were spread among Buildings E18, E19, E25, and NE20. The additional space also allowed for the hiring of new faculty.

BCS, like many other departments at MIT, existed as a graduate program first. The department was founded by Professor Hans-Lukas Teuber in 1964 as the Department of Psychology. The undergraduate program began in 1986, and “has classes geared to introductory levels,” Lanza said, including Introduction to Psychology (9.00), Introduction to Neuroscience (9.01), and a course on statistics.

Besides introductory courses, requirements for the undergraduate program also include one department laboratory course and participation

in research. Six core subjects from neuroscience, cognitive neuroscience, and cognitive science concentrations complete the undergraduate degree requirements. “The requirements are not that hard to fulfill,” Julia C. Fong ’09 said.

Many joint classes are offered to students interested in interdisciplinary studies — dual appointment faculty and interdepartmental research collaborations provide opportunities for students to work within other majors. “I might minor in Course 7 or Course 6, which would involve fMRI [functional magnetic resonance imaging] programming,” Fong said.

Undergraduates enter a variety of professions after graduation. According to Lanza, one-third usually enter medical school, one-third enter graduate or law school, and the remaining third enter industry. “With an MIT degree, you can sell yourself to any job that you want,” Lanza said. “You have the right skill set.”

The undergraduate program was revamped in 1996 with the addition of seven courses and the neuroscience concentration.

The BCS graduate program offers

four tracks: Cellular and Molecular, Systems Neuroscience, Computation, and Cognitive Neuroscience. Prospective students apply to a certain track but can change any time during their four to six years in the program.

Brandy J. Baker, who advises BCS graduate students, said that graduate introductory classes are very broad but quickly channel into a more specific curriculum. Seminars focus on specific aspects of BCS studies while others provide instruction on practical skills. For example, one seminar guides graduate students through the process of applying for a fellowship, Baker said.

Baker also said that most students spend their hours researching their thesis and dissertation. Almost all students finish the program with some type of scientific publication.

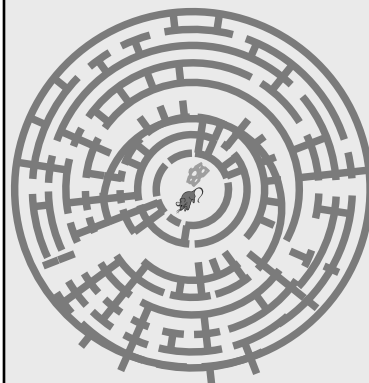
Typically, the first year of the graduate program is divided evenly between laboratory work and classes, and most students finish their courses by the end of their second year. “[BCS

offers] a broad array of research and is very flexible,” Caroline A. Runyan G, a graduate student in the BCS Department, said. However, Runyan said she wishes that there were more foundation classes like anatomy, because incoming students have varying backgrounds.

Course IX graduate students also collaborate with other programs and universities, such as the MIT Computer Science and Artificial Laboratory, Harvard-MIT Health Sciences and Technology, Harvard University, Boston University, and Massachusetts General Hospital. “It’s a very multidisciplinary field that incorporates biology, psychology, and statistics,” among other fields, Runyan said.

According to Baker, graduate students tend to enter academia as professors and faculty after finishing the program.

Beyond the classroom, BCS also offers opportunities for the greater MIT community to learn about neuroscience. Seminars, including weekly Friday talks, are regularly scheduled.



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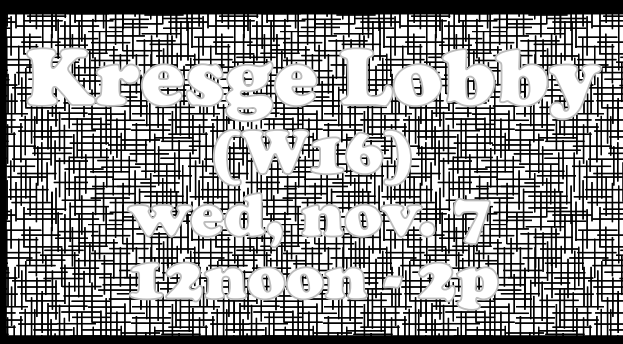
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German School Places First in DOE Contest

Solar 7, from Page 1

took place at the National Mall in Washington, D.C. from Oct. 12-20, challenged teams to build an energy efficient and aesthetically pleasing 800-square-foot home. Houses competed in 10 different areas, including architectural design, engineering excellence, comfort, hot water output, and lighting. The maximum possible score was 1,200 points.

Darmstadt University of Technology in Germany took first place with 1,024.85 points, followed by the University of Maryland, with 999.807 points. MIT earned 833.302 points, placing 13th and edging out Carnegie Mellon University by less than a point.

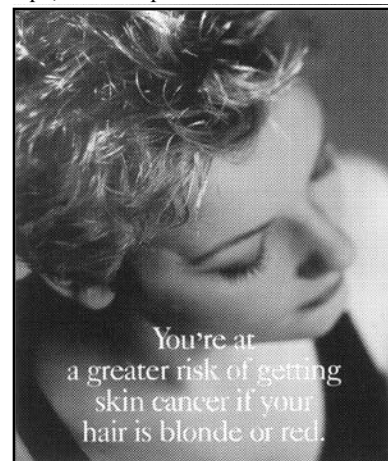
Faculty adviser Kurt L. Keville '90 and project manager Corey P. Fucetola G led the team, which was composed of undergraduate and graduate students, faculty, and volunteers from the greater Boston area, including master builders, carpenters, and students from the Boston Architectural College.

Over a period of two years, the team designed and built Solar 7 from scratch. In February 2007, they finalized plans for the house, breaking ground over the summer and completing construction in early October.

Fucetola said the MIT team focused on creating flexible spaces to free movement and on fusing high-tech features such as radiant floorboard heating, an aerogel warm wall, and 42 solar panels. The Solar 7 team was also committed to renewable building practices, incorporating bamboo and recycled wood into its interior.

The Solar 7 house currently sits disassembled in storage in New Hampshire, awaiting sale. Keville said he hopes to sell it to a Massachusetts non-profit organization.

Another competition will occur in 2009, and Keville said the possibility of MIT participating is under discussion. Keville said he would like to see MIT compete in the inaugural competition of Solar Decathlon Europe, which is planned for 2010.



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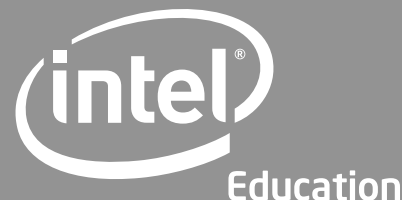


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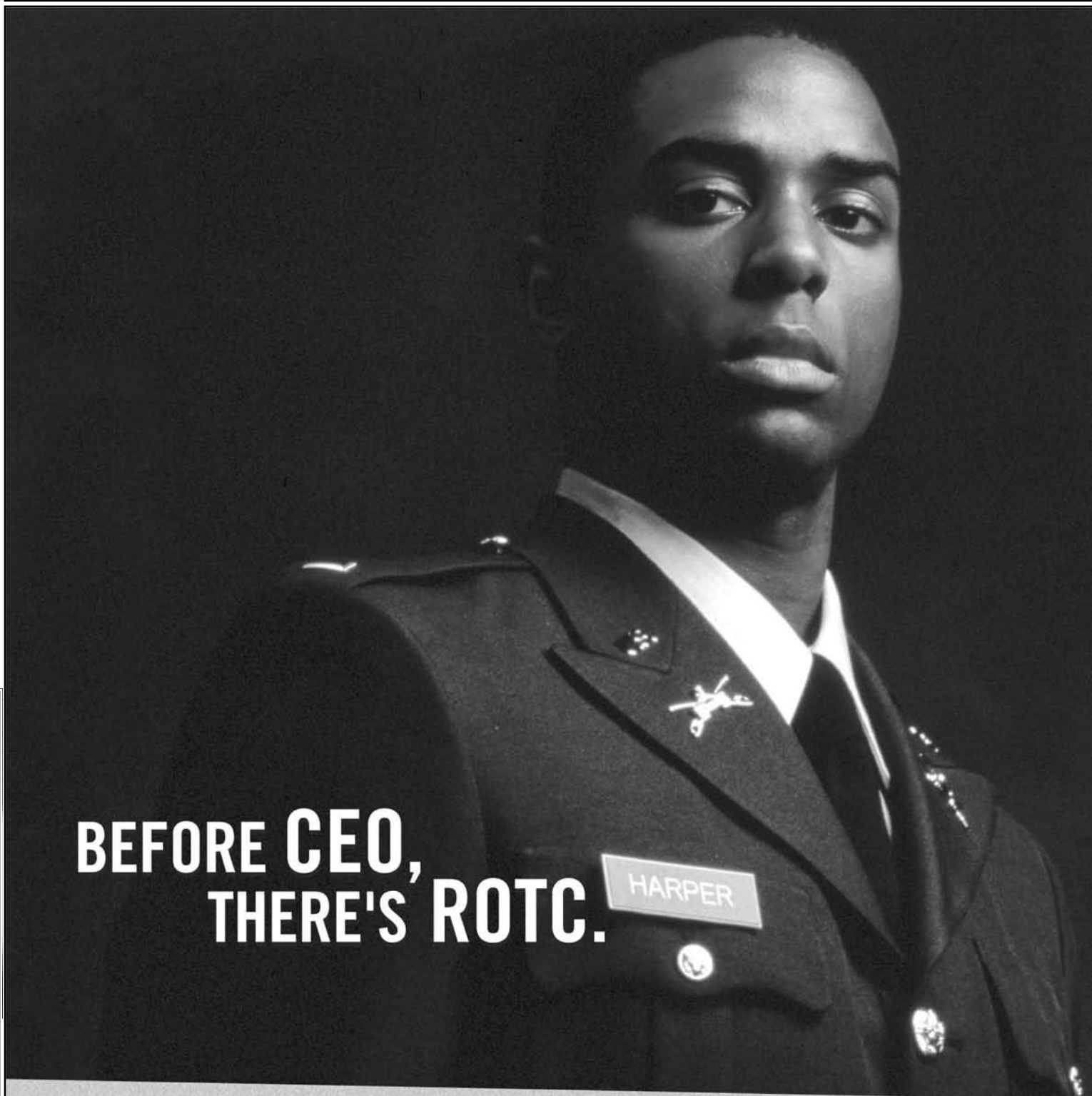
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Wellesley Surprises MIT in Four Games to Earn Title

Volleyball, from Page 16

Li paced MIT's attack with 13 kills, followed by Cleeland with 12, Katherine C. Rowe '10 with 11, and Rose Zhong '08 with 10. Morris tallied 37 assists, 16 digs, and two aces, and Carrie C. Buchanan '08 racked up 19 digs. Zhong and Rowe each contributed five blocks,

while Zhong completed the double-double with 12 digs. Cleeland and Li rounded out the blocking corps with four and three blocks, respectively.

Wellesley upsets MIT, captures volleyball championship

MIT could not capitalize on its finals appearance, falling to Welles-

ley College 18-30, 30-28, 30-28, 30-24, in the finals of the NEWMAC tournament. The victory gave Wellesley its sixth NEWMAC Women's Volleyball Championship title.

Libero Buchanan recorded 21 digs in the loss, becoming MIT's all-time leader in career digs. Arlis A. Reynolds '06 previously held the

school record with 1,949 digs.

The Engineers (34-2) opened the match with seven unanswered points. Following its own timeout, the Blue (27-6) got on the scoreboard by after an MIT hitting miscue. Tech maintained its momentum, quickly extending its lead to double-digits and cruising to the win.

In the second game, the Blue generated a four-point spurt that resulted in a 7-4 advantage. Each side traded points until the Engineers scored three in a row to even the game at 11. Wellesley broke up the run on the ensuing serve, but MIT tallied four of the next five points to establish a 16-13 edge. A pair of hitting errors and an ace by Jessica Duff tied the game for the fourth time. Both squads posted two points apiece before the Engineers tallied four straight for their largest lead (24-19). The Blue countered with an 11-4 run to even the match at one game each.

A trio of three-point spurts helped power MIT to a 10-5 advantage in the third game. Trailing 14-9, strong serving by Lauren Rasmussen put Wellesley ahead at 16-14. The game became a back-and-forth affair, featuring 10 ties and nine lead changes. A tip by Li gave the Engineers a 28-27 edge, but Tracy Waldman's strike sparked Wellesley to victory.

In the final game, Wellesley established a 7-3 lead, which MIT countered with a 7-2 run. The Blue then scored 10 out of the next 14 points to reclaim the advantage at 19-15. The Engineers stayed within striking distance, closing the gap to one at 20-19. A 4-1 rally gave Wellesley enough breathing room to hold on for the win.

Morris tallied 42 assists, 16 digs, and four blocks, while Li chipped in 10 kills, five blocks, and two aces. Rowe and Cleeland both posted six blocks as Rowe totaled 11 kills and Cleeland added 10. Zhong amassed 19 digs and nine kills, while Ellison collected 10 digs.

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Sports Shorts, continued

Sports Shorts, from Page 16

ond-place finishers from Wheaton.

Jacobi teamed with Jennifer A. Chao '09, Clara S. Bennett '10, and Nicole M. O'Keeffe '09 to win the 200-yard backstroke relay with a mark of 1:54.51. She then led off the victorious 200-yard butterfly relay followed by Kristen M. Felch '09, Ellie S. Souganidis '10, and O'Keeffe. That group touched the wall at 1:51.48. Jacobi and O'Keeffe paired up for one final triumph, this time with Brophy, to clock in at 16:09.44 in the 1,500-yard freestyle relay.

O'Keeffe picked up her fourth victory of the afternoon in MIT's other win, anchor-

ing the 400-yard IM relay team which also included Clark, Chao, and Ariadne G. Smith '10 clocking in at 4:25.85.

—Jeff Lemieux, *DAPER Staff*

Men's Ice Hockey Tops Bridgewater State, 3-2

Third-period goals from Nicholas R. LaBounty '09 and Kevin M. Farino '10 erased a one-goal deficit and handed MIT a 3-2 victory over host Bridgewater State College in the season opener for the men's ice

hockey team Thursday evening.

With the win, the Engineers (1-0-0) became the first team to overcome the Bears (3-1-0) this season. Bridgewater State had started its campaign undefeated while outscoring its opponents, 23-9, in its first three games.

Dustin P. Kendrick '10 gave the Engineers a 1-0 lead with a power-play goal with 3:38 remaining in the opening period. Joseph M. Fahey '10 provided the final pass to feed Kendrick, while LaBounty picked up the secondary assist.

The Bears tied the score at 1-1 just over one minute later, however, when Lee Trott fed Joe Allen for his first goal of the season. Early

in the second period, Allen turned provider to assist Trott's tally, which gave the hosts a 2-1 lead that they carried into the third period.

Bridgewater State lost that lead, however, as Ryan W. Ballentine '09 assisted LaBounty's goal with 18:11 remaining in the final period to even the score once again. MIT's fight-back was complete with exactly seven minutes left on the clock, as Farino netted the winning goal, with Fahey picking up his second assist of the night.

The Engineers will open their 2007-08 home schedule on Wednesday, Nov. 7, when they will host Daniel Webster College at 7 p.m. in the Johnson Ice Rink.

—Mike Stoller, *DAPER Staff*

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SPORTS

MIT Earns At-Large NCAA Bid; Reaches Finals of NEWMACs

By Mindy Brauer
DAPER STAFF

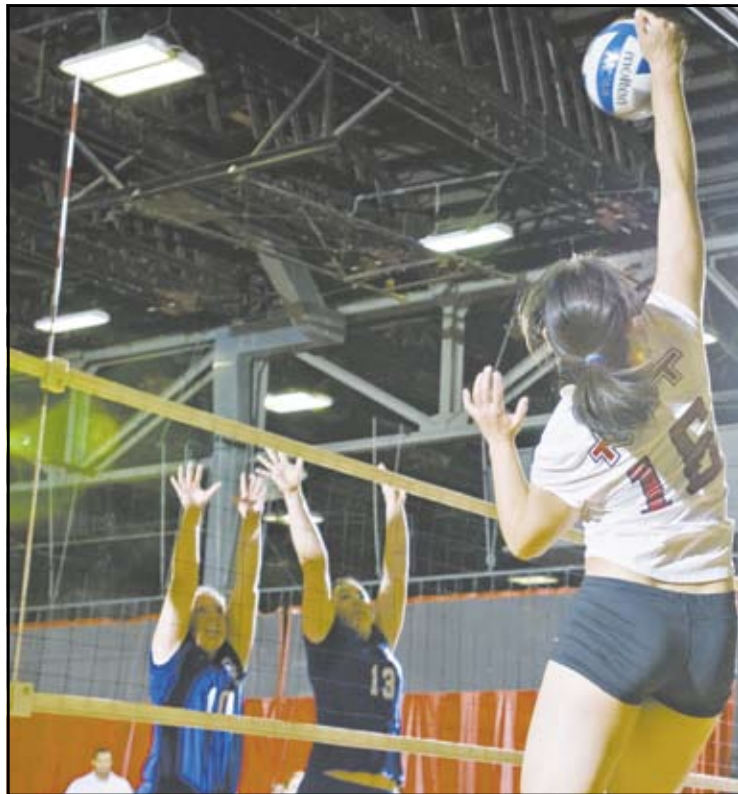
The MIT women's volleyball team earned an at-large bid to the National Collegiate Athletic Association Division III tournament, despite losing in the finals of the conference tournament Saturday. Tech, the host for this weekend's NCAA New England Regionals, plays its first regional match on Thursday night at 8:30 p.m. in Rockwell Cage.

After defeating U.S. Coast Guard Academy in a New England Women's and Men's Athletic Conference tournament semifinal match on Friday, MIT fell to Wellesley College in the tournament's championship match. With the win, Wellesley earned an automatic berth in the NCAA tournament.

MIT sweeps Coast Guard, advances to championship round

The Engineers followed up their Oct. 30 NEWMAC quarterfinal win over Mount Holyoke with a three-game semifinal sweep of Coast Guard by a score of 30-24, 30-28, 33-31.

With the opening game tied at seven, a tip by Barden E. Cleeland '10 sparked a 6-1 run that gave MIT the lead for the rest of the game. The Bears (20-6) were able to close the gap to one on two occasions, the last occurring at 18-17. Tech gradually established a six-



Outside/middle hitter Jennifer Li '11 slams a spike during MIT's 3-0 semifinal win against the U.S. Coast Guard Academy on Friday afternoon in Rockwell Cage.

point advantage (26-20), but Coast Guard quickly cut its deficit in half. MIT captured three out of the next four points with a spike by Amanda J. Morris '08 to seal the game.

Corrine McCormack's strong jump serve helped turn a 5-4 defi-

cit into an 8-5 advantage for Coast Guard in the second game. The Bears' lead eventually grew to six at 16-10, and they maintained a slim cushion for most of the game. MIT continued to attack and evened the contest at 24. Coast Guard captured the next point, and the Engineers won the next two to regain the lead. The Bears once again tied the game, but it would be the last time as back-to-back points put MIT ahead, 28-26. Each side traded points to close out the game.

In the final game, Coast Guard slowly crept out to a three-point advantage, which it maintained as late as 22-19. A service error led to a five-point run that featured an ace by Morris and two blocks and a kill from Cleeland. Undeterred, the Bears countered with three straight points that evened the contest at 25. Both squads exchanged points before Coast Guard went ahead, 28-27. Following their own timeout, the Engineers posted the equalizer on a strike by Katrina M. Ellison '10. The Bears picked up match point, but back-to-back blocks gave MIT a 30-29 lead. After trading points, a kill by Jennifer Li '11 put the Engineers up for good as they closed out the match on their ensuing serve.



Outside hitter Rose Zhong '08 digs the ball during the second game of MIT's 3-0 semifinal win against the U.S. Coast Guard Academy on Friday afternoon in Rockwell Cage. MIT lost the championship match the next day against Wellesley, 3-1.

Volleyball, Page 14

Ludlum Sets Institute Record, Finishes MIT Career With 52 Goals

By Martin Desmarais
ASSISTANT SOCCER COACH

MIT students might not know it, but the greatest goal scorer in the Institute's soccer history walks among them.

Feature

Women's soccer team captain Amy S. Ludlum '08 ripped apart the record books this fall, her 52 career goals surpassing both the men's and women's all time goal-scoring records. The women's record has stood for over a decade.

On her way to this accomplishment, the senior from Mission Viejo, Calif., also knocked off a number of other records, including records for goals in a game (four), assists in a game (four), and points in a game (10). Her 18 goals and 15 assists for 51 points so far this year also set a single-season scoring record. She is currently ranked No. 2 in the country with a 3.27 points-per-game average and has led the conference in scoring for the past two seasons.

As reigning New England Men's and Women's Athletic Conference Player of the Year, the first women's soccer player in MIT history to win this award, and a favorite to nab the honor again this season, Ludlum's offensive outpouring has helped the women's soccer team to a 12-5 overall record and a 6-3 mark in conference play, as well as a No. 10 New England ranking.

Gaudy numbers aside, women's soccer head coach Krista M. Fulton praises Ludlum's drive and determination to help make MIT a better team.

"What exemplifies the type of player she is, to me, is the day after she was named Player of the Year in the conference last year, she started to prepare for this year — to make her team better this year," said Fulton, who has coached Ludlum since she was a sophomore.

"She finds a way to continue to motivate herself even though she may stand head and shoulders above others," Fulton added. "She puts the work in and she puts the effort in throughout the whole year."

Ludlum is the first to admit that the improvement of the team and the better players around her are a big

part of her goal-scoring success in the past several seasons — in her first two seasons, she scored 17 goals; in the last two, she has tallied 35 — and Fulton said this attitude is evident.

"She is an unbelievable goal scorer, but she is also very unselfish," Fulton said. "She is just as happy to have the game-winning assist as she is to have the game-winning goal."

Ludlum's 15 assists this year is one short of the MIT single season record, but, at the end of the day, scoring goals is what Ludlum does. Fulton, who has coached collegiate soccer for over a decade at all levels, said she has rarely seen a goal scorer like her.

"One word to describe her is dangerous," Fulton said. "She has an uncanny ability to finish the ball from various distances and strange angles. Any time she is on the field, she is a danger to score."

"As an opposing coach you have to be concerned with where she is on the field at all times," she added.

One opposing conference coach admitted as much about Ludlum after a recent game and even went as far as to say — meant in the highest form of flattery — "I can't wait for her to be gone."

Fellow team captain Mary P. Harding G, a graduate engineering student from Wilton, Conn., said that Ludlum's competitiveness is not always evident when you first meet her, but her drive manifests on the field, particularly in scoring goals.

"She wants to put the ball in the back of the net and do it again and again," Harding said.

According to Harding, Ludlum's skill as a goal scorer was evident early on at MIT and she was relied upon. "If you had Amy 1v1, the whole team did a collective sigh and said, 'Relax we are going to score,'" Harding said. "She was kind of this stealth presence up top that we could always count on."

With the team nature of soccer, 11 players working toward one player scoring a goal, Harding admits that everyone feels part of Ludlum's record-breaking season. "It is really nice to be proud of an all time leading scorer," she said. "It is something the whole team can be proud of."

UPCOMING HOME EVENTS

Wednesday, Nov. 7, 2007

Men's Ice Hockey vs. Daniel Webster

7 p.m., Johnson Ice Arena

Water Polo Finishes Season in Fifth Place

The 2007 campaign for MIT water polo came to a close on Sunday afternoon, as the Engineers went 2-1 over the course of the weekend to secure a fifth-place finish at the Collegiate Water Polo Association Northern Division Championships.

The Engineers finished 16-11 in Adam Foley's first year as a head coach, marking the water polo program's most successful campaign since 2003, when MIT put forth its best record ever at 23-9.

Saturday morning, Tech and Iona College faced off with a spot at the Eastern Championships up for grabs and unfortunately for the Engineers, the Gaels squeaked out a 9-8 victory to extend their season. The loss, coupled with MIT's triumph over Iona during the regular season, marked the fourth consecutive year that the Engineers and Gaels have split a pair of meetings.

MIT had to bounce back quickly following the disappointing defeat, as it took on Connecticut College later on Saturday after-

noon. The Engineers responded in stunning fashion, as six players netted multiple goals en route to pounding out a 20-5 win.

The Engineers earned a spot in the fifth-place game courtesy of the victory, where they downed Fordham University, 8-7, to finish out the season on a winning note. Morgan S. Laidlaw '08, playing in the final game of his intercollegiate career, netted a pair of goals to push his season total to a career-high 18.

John V. Preis '11 ended the season with a team-leading 72 strikes.

—Jeff Lemieux, DAPER Staff

Men's Swimming, Diving Sweeps at Batterman Relays

MIT men's swimming and diving couldn't have had a more successful start to its 2007-08 season, sweeping all nine swimming events at the Batterman Relays on Saturday. The non-scoring meet, hosted by Wheaton College, included the host Lyons and Tufts University.

The trio of Jeffrey Y. Zhou '10, Rastislav Racz '10, and Luke R. Cummings '10 continued the incredible form which saw all three

travel to the National Collegiate Athletic Association Championships in their rookie seasons. They teamed with Laurent Charpentier '10 to open the afternoon with a victory in the 200-yard medley relay, touching the wall at 1:35.75.

Charpentier then raced to a win in the 500-yard freestyle crescendo relay, swimming with Calvin D. Kao '08, Peter J. Wellings '09, and Michael J. Dobson '11 to a time of 4:13.08 — nearly 11 seconds faster than second-place Tufts.

Zhou, Trace U. Sauter '11, Toomas R. Sepp '11, and Deke Hu '09 won the 200-yard backstroke relay (1:40.48) before Zhou and Sepp returned to win the 200-yard butterfly relay (1:34.19) with Charpentier and Cummings.

Zhou, Cummings, and Charpentier took the top spot in the 400-yard freestyle relay (3:15.12) along with Wellings.

The 400-yard IM relay was won by Racz, Hu, Cummings, and Kao with a time of 3:46.47, before the 1,500-yard freestyle relay team of Dobson, Jack Hill '11, and Udit Garg '09 clocked in with the fastest time of 15:05.17.

Hu, Cummings, Kao, and Racz joined forces for the 200-yard breaststroke relay, which they won with a mark of 1:53.38, be-

fore Cummings picked up his team-leading sixth victory of the day in the final event, the 200-yard freestyle relay (1:27.52), along with Zhou, Wellings, and Charpentier.

—Jeff Lemieux, DAPER Staff

Women's Swimming, Diving Opens Season

MIT women's swimming and diving opened its 2007-08 campaign Saturday, earning the top times in five of nine swimming events at the Batterman Relays, hosted by Wheaton College. The Engineers also secured the top scores in both the one-meter and three-meter diving portions.

The non-scoring meet also included host Wheaton College and Tufts University.

Amy E. Jacobi '11 was a catalyst for MIT's success throughout the afternoon, staking a claim in four of MIT's five swimming victories. Along with Ashley E. Pinchinat '10, Abigail M. Clark '09, and Sasha B. Brophy '08, Jacobi helped the Engineers to a time of 4:53.47 in the 500-yard freestyle crescendo relay — a full six seconds faster than the sec-

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