

Water Supply Stops Briefly Due to Main Water Pipe Rupture

By JiHy Kim
ASSOCIATE NEWS EDITOR

A water main ruptured on the corner of Main and Ames St., flooding the intersection and interrupting water flow to 21 MIT buildings last Wednesday, Jan. 17 at 9 a.m. Water flow to most buildings was restored by early afternoon; a city crew had repaired the break by 7 a.m. Thursday morning.

MIT's Department of Facilities could not specify the reason for the main pipe burst; the municipal water infrastructure falls under the jurisdiction of the City of Cambridge. City officials were not available for comment.

According to David J. McCormick, director of operations in the Department of Facilities, there was initially flooding from the pipe break. "Facilities had water flowing into the basement of Building E19 where we mobilized to minimize the damage to MIT's property in this building," McCormick said.

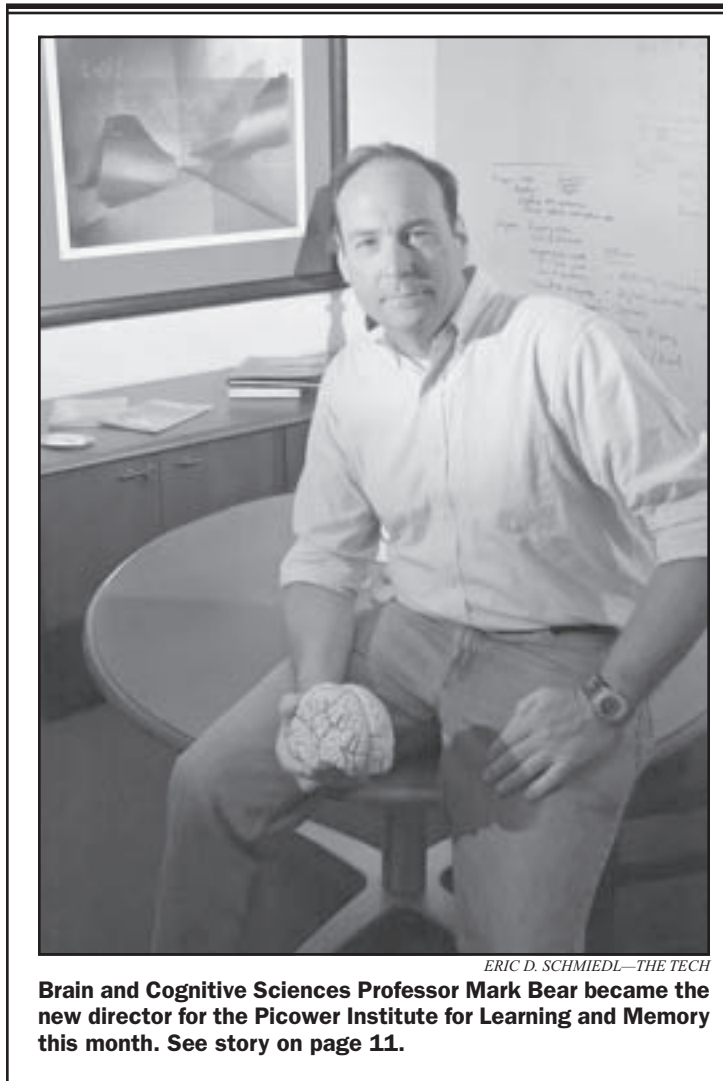
The Department of Facilities began notifying MIT building occu-

pants as the City of Cambridge began to shut valves down in the street in an attempt to prevent water flow from the broken pipe. Buildings E1, E15, E17, E18, E19, E40, E52, E53, 16, 18, 32, 44, 46, 48, 56, 57, 66, and 68, which house laboratories and offices, were affected, as well as undergraduate dormitories Senior House (E2) and both parallels of East Campus (62 and 64), according to Director of Housing Dennis Collins.

MIT will have to pay for property damage from the flooding, according to McCormick; cost estimates were not yet available.

The Department of Facilities and the City provided alternate water sources for those buildings whose outages lasted more than a few hours. "The Department of Facilities immediately dispatched plumbers to back feed water to all buildings affected," Collins said. "They ran a large hose from a fire hydrant for Senior House around mid-afternoon. They also brought in a line for East Campus by

Water Main, Page 15



ERIC D. SCHMIEDL—THE TECH
Brain and Cognitive Sciences Professor Mark Bear became the new director for the Picower Institute for Learning and Memory this month. See story on page 11.

Course VI Classes To Change Beginning Fall 2008

By Joyce Kwan
ASSOCIATE NEWS EDITOR

The Department of Electrical Engineering and Computer Science is overhauling its curriculum to allow students more flexibility within the department; most of the changes will be implemented in Fall 2007.

As approved by the Committee on the Curricula this month, the department will make two new introductory classes mandatory for new EECS majors beginning in Fall 2008: Introduction to EECS I (6.081) and Introduction to EECS (6.082), both of which have been offered as elective courses for the past few semesters. Structure and Interpretation of Computer Programs (6.001) will be phased out. Beginning in Fall 2007, 6.081 and 6.082 will be offered as 6.01 and 6.02, respectively.

For current students, taking the 12 unit 6.081 along with the three unit 6.188 supplement, which focuses on the Scheme language, fulfills the 6.001 requirement.

Discussions on the changes began roughly two years ago, while Provost L. Rafael Reif was still head of the department, according to EECS Professor George C. Verghese, a member of the committee in charge of re-evaluating the curriculum. The department decided on the need for overhaul because the structure of the curriculum has remained nearly unchanged for about 30 years, he said.

The two new subjects, 6.081 and 6.082, have already been implemented and this spring will mark their third and second offering, respectively. They were designed to offer students an alternate introduction to the department, one that covers a broad spectrum of the field.

EECS Department Head W. Eric L. Grimson PhD '80 said, "We wanted to develop an introduction to the department that responds to several important pedagogical issues: it should cut more broadly across all of EECS, it should have a strong hands-on experience, and it should engage students in more direct contact with teaching staff than the traditional lecture/recitation format."

According to Verghese, after completing the introductory subjects,

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Perks of Being a Geek on Reality TV

Food, Fears, Fashion: MIT Grad Speaks After Being Eliminated on Show

By Joanne Shih
STAFF REPORTER

Matthew A. Herman '06 and his partner Andrea Ciliberti were sent home last Wednesday on the CW television show "Beauty and the Geek," after surviving two weeks of such challenges as performing a stand-up comedy routine (for the geeks) and giving a space museum tour (for the beauties). The pair lost after Andrea Ciliberti missed her two questions in the elimination

round — what type of advertising are billboards (answer: outdoor), and which store's slogan is "Get more. Pay Less." (answer: Target).

"I was surprised that we didn't win that elimination beforehand just knowing how prepared we were," Matt said. "The first [question] ... was a very vague question and one of my colleagues at work had a good analogy ... that made me feel a lot better — that's like asking what type of vehicle is a fire truck and saying the answer is emergency, and then them saying 'I'm sorry, that's not right. It's red.' I don't feel like it was either one of our faults

or that we didn't try our hardest or that we didn't look good."

I had the opportunity to sit down and chat with Matt over the weekend about his experiences on and since the show. Among other things, we talked about what to take advantage of on a reality television set, what not to wear (ever), and what social anxieties even fraternity presidents have (Matt was, after all, president of Theta Xi for a year).

I ain't no drama mama

Since I've become addicted

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ERIC D. SCHMIEDL—THE TECH
Matthew A. Herman '06 answers questions from the crowd that packed 4-270 after a screening of the Beauty and the Geek.

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NEWS

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In Short

¶ MIT received a "B-" grade on the new College Sustainability Report Card, a report issued by the Sustainable Endowments Institute, which assesses 100 leading colleges on their campus greening practices and endowment policies. A total of 26 colleges received an "A-," which was the highest grade. The full report is available at <http://www.endowmentinstitute.org/sustainability/>.

¶ The Massachusetts Free File Alliance offers students a way to file tax forms online. Students who work and who may be entitled to a refund from taxes taken out of their paychecks can use the free software to file a tax return by April 17. More information and forms are available at <http://www.mass.gov/>.

¶ The Vice President for Resource Development position will be filled by Jeffrey L. Newton, who was previously dean for resource development and alumni relations at Harvard Medical School. He will join MIT on March 19.

Send news information and tips to news@the-tech.mit.edu.

Biology Graduate Student Dies

Henning Friedrich G, a second year graduate student in the Biology Department, died Jan. 5, 2007. He was found in his Boston apartment.

The Boston Police Department is waiting on a toxicology report to determine the official cause of death, although suicide is suspected, according to Institute Chaplain Robert M. Randolph. The death was "sudden" and there was no evidence of foul play, said Biology Department Head Chris A. Kaiser PhD '87.

According to Dean of Graduate Students Isaac M. Colbert, Friedrich did not show up to work on Jan. 5. His thesis advisor Thomas Schwartz, who was concerned, investigated and found Friedrich at his apartment. Schwartz did not return a call for comment.

Originally from Hanover, Germany, Friedrich was a visiting student at Rockefeller University before joining Schwartz, now a Biology associate professor, when Schwartz moved his laboratory to MIT.

—Angeline Wang

News Brief

WORLD & NATION

Suicide Bomber Kills 10 Near NATO Base in Afghanistan

By Abdul Waheed Wafa

THE NEW YORK TIMES

KABUL, AFGHANISTAN

A suicide bomber wearing an explosive vest blew himself up Tuesday at the entrance to a NATO base in the southeastern province of Khost, killing as many as 10 people, officials said.

The attack occurred as Afghan laborers were lining up for security checks at the pedestrian entrance of the base known as Camp Salerno. The bomber was attempting to enter the base, NATO said, but detonated the vest when he reached the search point.

Arsalah Jamal, the Afghan provincial governor of Khost, visited the scene after the bombing and confirmed the deaths of eight civilian laborers and two Afghan security guards, though a NATO statement put the toll at six Afghan civilians and two policemen.

"I confirm 10 people, including two Afghan security guards, were killed in a suicide attack at the entrance of the military base," Jamal said.

He said 14 others had been wounded in the attack, all Afghan civilian daily workers for the military base. NATO said only five were wounded.

China Confirms Space Test; Denies Intent to Intimidate

By Joseph Kahn

THE NEW YORK TIMES

BEIJING

The Chinese government publicly confirmed Tuesday that it had conducted a successful test of a new anti-satellite weapon but said it had no intention of participating in a "space race."

The confirmation was made at a regular Foreign Ministry news briefing, 12 days after China used a medium-range ballistic missile to destroy one of its own weather satellites 535 miles above Earth. Several countries, including the United States, Japan, Britain and Australia, pressed Beijing to explain the test, apparently the first successful destruction of a satellite in orbit in more than 20 years.

Until now, Chinese officials declined to confirm or deny that it had occurred, despite news reports last week that quoted Bush administration officials describing the exercise in detail. Liu Jianchao, the Foreign Ministry spokesman, issued the first official comment.

"This test was not directed at any country and does not constitute a threat to any country," he said. "What needs to be stressed is that China has always advocated the peaceful use of space, opposes the weaponization of space and an arms race in space. China has never participated and will never participate in any arms race in outer space."

Ethiopia Forces Who Helped Install Government Are Leaving Somalia

By Jeffrey Gettleman

THE NEW YORK TIMES

NAIROBI, KENYA

The Ethiopian troops who helped install Somalia's fledging government in Mogadishu, its capital, began to pull out Tuesday, officials from each country said.

Many Somalis say they now fear that a power vacuum will form and that the country will slip back into the lawlessness that has dominated it for much of the past 16 years.

"Why can't they stay?" asked Muhammad Omar Ali, a milkman in Mogadishu, as he watched truckloads of Ethiopians chug away. "They're leaving us to the bandits."

Ethiopia played a pivotal role in rearranging Somalia's internal politics last month when it sent tanks, jet fighters and thousands of troops to vanquish an increasingly aggressive Islamist movement that ruled most of south-central Somalia. After routing the Islamist army, the Ethiopians paved the way for Somalia's transitional government, which until then was weak and divided, to take control of the country.

Bush, Pressing Agenda, Says US Must Not Fail in Iraq War

By David E. Sanger and Jim Rutenberg

THE NEW YORK TIMES

WASHINGTON

President Bush tried to resuscitate his ailing presidency Tuesday night, using his State of the Union address to present a modest agenda of energy and health care proposals while warning an increasingly assertive Congress against undercutting his new Iraq strategy.

It was a speech that reflected Bush's difficult circumstances. It was limited in ambition and political punch at home, with no proposals to rival his call two years ago to remake the Social Security system, no mention of rebuilding New Orleans, no allusions to limiting stem cell research or banning gay marriage.

And when it came to his plan to send additional troops to Iraq, he was forced to plead with the Democrats who now control Congress — as well as a growing number of Republican critics — to "give it a chance to work."

In an admission that the United States now finds itself trapped in the cross-fire of a sectarian conflict, Bush said: "This is not the fight we entered

in Iraq, but it is the fight we are in." While he insisted that America could not afford to fail, he also warned the Iraqi government that "our commitment is not open-ended."

His freshest initiative was setting a goal of reducing projected gasoline consumption 20 percent over the next 10 years, hitting an environmental theme tailored to buttress his appeal for bipartisanship in a city where the balance of power has shifted markedly against Bush and the Republicans since the last State of the Union address. Although he did not propose any measures to deal with emissions from power plants and factories, the main sources of greenhouse gases, he spoke directly of "the serious challenge of global climate change."

But the other main element of his domestic agenda, a package of proposals intended to improve access to health insurance, had drawn intense opposition from Democrats long before Bush walked to the well of the House chamber on Tuesday night, a scene he could not have relished but handled graciously. Behind him sat a Democratic House speaker, Rep. Nancy Pelosi, sitting alongside Vice President Dick Cheney. In front of

him was an audience of Democrats growing increasingly comfortable with their new power, including quite a few who are jockeying to take his job and reverse the policies he has put in place.

Bush gamely ticked off other goals he would like to achieve before leaving office in three days short of two years, including overhauling immigration laws, taking steps toward a balanced budget and dealing with the long-term financial condition of Social Security and Medicare, and imposing tighter standards on schools.

Yet the proposals were overwhelmed by the Iraq debate.

"Many in this chamber understand that America must not fail in Iraq," Bush said, "because you understand that the consequences of failure would be grievous and far-reaching."

While Bush has traditionally used these speeches to present a hopeful vision of Iraq's future, he could not do so on Tuesday night. His own nominee to take over the command of U.S. forces in Iraq, Lt. Gen. David H. Petraeus, told the Senate Armed Services Committee earlier in the day that "the situation in Iraq is dire."

Twofold Power Shift Evident at Annual World Economic Forum

By Mark Landler

THE NEW YORK TIMES

DAVOS, SWITZERLAND

The World Economic Forum convenes its annual conference here Wednesday with the theme "Shaping the Global Agenda: The Shifting Power Equation." To judge by the names on the guest list — and those not on it — the phrase aptly reflects the turnout at this high-altitude huddle.

Missing are Davos regulars like Bill Clinton, as well as marquee names from the Bush administration, which is sending only its trade negotiator, a deputy secretary of the Treasury, and a few other officials.

On the list is Prime Minister Nguyen Tan Dung of Vietnam, newest member of the club of rising world economies, as well as Chad Hurley, the head of YouTube, the Internet site that allows anyone to post

a video on the Web.

"The power shift is twofold," said Klaus Schwab, the Swiss organizer who has managed to keep Davos a hot ticket for three decades by glomming onto the latest political and business trends. "Power is shifting from the center to the periphery, and from the top to the bottom."

Schwab insists there will be no shortage of familiar names at this Alpine ski resort, with 24 heads of state or government, 85 cabinet ministers and more than 800 corporate chiefs. But the sense of scarcity from the United States, Europe, and elsewhere is hard to miss in the program.

For example, Schwab played down the absence of a top Bush administration official like Secretary of State Condoleezza Rice, who was invited to speak but could not find time. Sen. John McCain, a strong presidential candidate, however, will

be here to give his views on Iraq and other issues.

"People may be interested to listen to him to get the longer-term perspective," Schwab said in an interview.

Some of the traditional heavyweights who do plan to attend are themselves victims of fading fortunes. Prime Minister Tony Blair of Britain will close the conference with a speech that amounts to a farewell address — his tenure running out amid recriminations over the Iraq war.

John Browne, the chief executive of BP and a co-chairman of the conference, has announced he will step down from the giant energy company in July, a year earlier than planned, after a team of outside investigators harshly criticized BP for safety lapses that led to 15 deaths at its Texas refinery.

WEATHER

A Bitterly Cold End to the Week

By Angela Zalucha

STAFF METEOROLOGIST

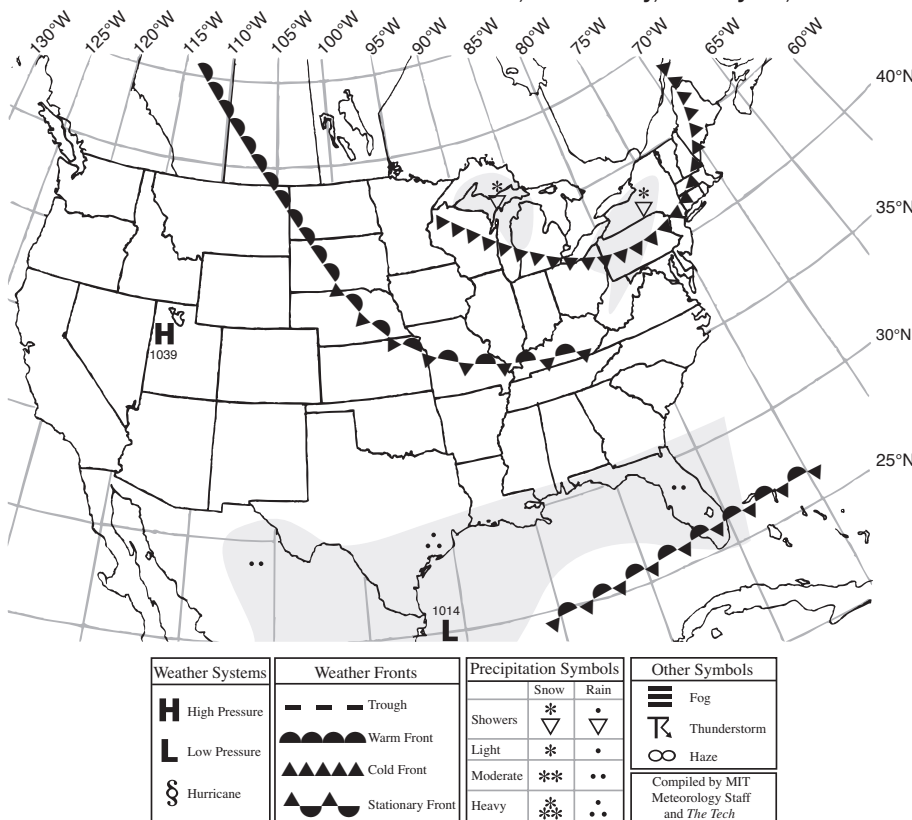
Winter continues to fight back this week, as temperatures Friday are forecast to be the lowest they have been all year. On average, the end of January is typically the coldest time of the year, although the end of this week will be somewhat colder than normal. While the forecast period for the most part looks dry, the primary concern will be strong winds, which together with the cold temperatures will produce wind chill values as low as -15°F (-26°C).

What does "wind chill" mean anyway? According to the National Weather Service, the Wind Chill Temperature (WCT) index is the cold we experience due to the combined effects of wind and a low temperature. As the wind increases, the body is cooled at a faster rate, causing the skin temperature to drop. The WCT index is calculated using an empirical formula based on heat loss rates of exposed skin that is a function of the actual air temperature and the wind speed. The WCT is only a perceived temperature by humans—a thermometer cannot measure WCT. Inanimate objects, such as rocks, are not affected by wind chills; your dog is but probably requires a different empirical formula. (Source: <http://www.weather.gov/os/windchill/images/wind-chill-brochure.pdf>.)

Extended Forecast

- Today:** Mostly sunny. High 37°F (3°C).
- Tonight:** Partly cloudy. Low 17°F (-8°C).
- Tomorrow:** Mostly cloudy. High 25°F (-4°C).
- Friday:** Cold and brisk. Low 5°F (-15°C). High 10°F (-12°C).
- Saturday:** Partly cloudy. Low 10°F (-12°C). High 30°F (-1°C).
- Sunday:** Chance of snow showers. Low 25°F (-4°C). High 35°F (2°C).

Situation for Noon Eastern Standard Time, Wednesday, January 24, 2007



Hezbollah Violently Strikes Out, Blocks Off Highways Into Beirut

By **Nada Bakri**
and **Hassan M. Fattah**

THE NEW YORK TIMES

BEIRUT, LEBANON

Thousands of supporters of the Iranian-backed Hezbollah, which is seeking to bring down the pro-Western government, clashed with government supporters and blocked highways leading into the Lebanese capital Tuesday, raising fears that the political crisis might lead to open sectarian conflict.

At least three people died and 100 more were injured throughout the country in the violence, the worst since Hezbollah began demanding more political power late last year, police officials said late Tuesday. Mobs of men burned tires, set cars on fire, and fought occasional gunbattles with their political opponents.

In some cases, opponents yelled slogans with clear sectarian undertones, an especially frightening development for those who lived through the country's bloody civil war from 1975 to 1990.

By nightfall, the opposition began removing most of the makeshift road blocks in Beirut and announced that

the protest was over. But the group warned that more protests could follow.

"This is a one-day show of force for the time being," said Paul Salem, director of the Carnegie Middle East Center in Beirut.

The opposition has accused Prime Minister Fouad Siniora of corruption and graft and has dismissed him as a Western puppet. They have called for his resignation and for a "unity" government that would ultimately give Hezbollah and its allies veto power.

Tuesday's violence came just two days before a crucial conference of donor nations in Paris to secure \$5 billion in loans and aid to rebuild parts of Lebanon destroyed in the war between Israel and Hezbollah last summer. Hezbollah has vied with the government to provide help to residents in the country's south and in Beirut's southern suburbs, which were the worst hit during the month-long war.

Siniora insisted Tuesday that nothing would stop him from traveling to Paris.

"I urge you to think clearly where they want to take you, away from your interest and that of the country," Sin-

iora said, addressing the protestors on television. "We will stay together against intimidation. We will stand together against strife."

The turmoil started at dawn, when groups of protestors set up roadblocks along major thoroughfares leading into Beirut, blocking roads with burning tires, trucks and rubble said to be from buildings demolished last summer by Israeli bombs. They set fire to vehicles and, on several instances, were filmed attacking cars trying to pass their cordon.

In Beirut, many of the clashes were in mixed neighborhoods, where young men on either side of the widening political divide shouted epithets and hurled stones at each other.

Along one major thoroughfare, the men got into a brawl amid sporadic gunfire. One side raised photos of Sheik Nasrallah, a Shiite, and burned photographs of former Lebanese Prime Minister Rafiq Hariri, a Sunni whose assassination in 2005 set off Lebanon's latest political turmoil. The other side lined up across the street and raised photographs of three Sunnis: Hariri, Siniora and Saddam Hussein.

Public Election Financial Support May Become Nonexistent by 2008

By **David D. Kirkpatrick**

THE NEW YORK TIMES

WASHINGTON

The public financing system for presidential campaigns, a post-Watergate initiative hailed for decades as the best way to rid politics of the corrupting influence of money, may have quietly died over the weekend.

Sen. Hillary Rodham Clinton of New York became the first candidate since the program began in 1976 to forgo public financing for both the primary and the general election because of the spending limits that come with the federal money. By declaring her confidence that she could raise far more than the roughly \$150 million the system would provide for the 2008 presidential primaries and general election, Clinton makes it difficult for other serious candidates to participate in the system without putting themselves at a significant disadvantage.

Officials of the Federal Election Commission and advisers to several campaigns say they expect the two candidates who reach Election Day

2008 will raise more than \$500 million apiece. Including money raised by other primary candidates, the total amount spent on the presidential election could easily exceed \$1 billion.

People involved in the Republican primary campaign of Sen. John McCain of Arizona say he, too, is beginning to seek private donations for the primary and general elections, albeit with the option of returning them. A longtime proponent of campaign finance change, McCain has recently removed his name as a co-sponsor of a bill to expand the presidential public financing program.

Former Gov. Mitt Romney of Massachusetts, another Republican primary contender, has already decided to forgo public financing for the primaries. Sen. Barack Obama of Illinois, a rival to Clinton for the Democratic nomination, declined to comment, as did spokesmen for several other candidates.

In a sense, Clinton was merely confirming what many in Washington already knew: That the public financing system has failed to keep

pace with the torrents of money flowing toward the presidential elections. In 2004, President Bush and Sen. John Kerry, the Democratic candidate, each opted out of the system for the primaries but not the general election. By accepting the public financing, they had to agree not to raise or spend any private money for the period after their nominating conventions.

But when Bush raised some \$270 million, and Kerry about \$235 million, it became clear that major-party candidates could raise far more from private donors than from the public system.

"The 2008 race will be the longest and most expensive presidential election in American history," said Michael E. Toner, chairman of the Federal Election Commission. "Top-tier candidates are going to have to raise \$100 million by the end of 2007 to be a serious candidate." He added: "We are looking at a \$100 million entry fee."

The turn away from public financing is the twilight of a system once welcomed as a new era of clean government.

Bank of America Hinders Lobbyists' Effort to Alter Limiting Federal Law

By **Eric Dash**

THE NEW YORK TIMES

Bank of America's chairman and chief executive, Kenneth D. Lewis, said Tuesday that the company was backing away from a quiet lobbying effort to change a federal law that could prevent it from making major acquisitions.

Just weeks after agreeing to initiate discussions with lawmakers to raise the possibility of lifting the 10 percent federal deposit cap, Kenneth D. Lewis said that he had told bank representatives to "back off" from those plans.

"I thought we had gotten out there a little too far in terms of our level of aggressiveness, and it sent the wrong signals," Lewis said in an interview on Tuesday. About two weeks ago, he made the decision to halt the political effort, he said.

Bank of America, which has about \$693.5 billion, or just over 9 percent of the nation's deposits, had argued in a position paper that the law restricting a bank to no more than 10 percent of the nation's deposits is "antiquated, conceptually

flawed" and anti-competitive.

While American banks are prevented from increasing their deposit base through acquisitions that might push them over the federal threshold, foreign banks face no similar restrictions. The bank also argues that the law is unnecessary because of anti-trust laws, state regulations and market forces.

But as the only bank near the 10 percent limit, Bank of America has found itself with virtually no allies. JPMorgan Chase, the next largest deposit holder, could acquire all but the five biggest banks and still remain under the federal cap. Wachovia, Wells Fargo and Citigroup, the next banks in line, have potentially even more room and time.

Smaller community banks, meanwhile, have vowed to fight any move to lift the cap.

A Wells Fargo spokesman said the bank also opposed lifting the cap, preferring to stick to its internal growth strategy that does not come close to hitting the limit. JPMorgan declined to comment, while Wachovia and Citigroup said they had no

position on the subject.

On Capitol Hill, the proposed change has met with a lukewarm reception. Rep. Barney Frank, D-Mass., who heads the House Financial Services Committee, has suggested that lifting the cap may be part of some sort of "grand compromise" between Wall Street and Main Street interests. There does not appear to be much enthusiasm, but other lawmakers have not dismissed the idea out of hand.

Bank of America's backpedaling is either the recognition of a rare misstep or a shrewd calculation for Lewis, who is known for his deliberate approach to corporate strategy.

On the one hand, reports of the plans were a reminder of the bank's bigger ambitions, leading to speculation that it was setting the stage to engage in a major deal. On the other, it may be a way of taking the temperature of a new Democratic-controlled Congress while planting the idea in people's minds. Typically, it takes years to pass legislation to repeal banking laws like those governing interstate banking.

Rare Armenian-Turkish Unity At Slain Editor's Funeral

By **Sebnem Arsu** and **Susanne Fowler**

THE NEW YORK TIMES

ISTANBUL, TURKEY

More than 50,000 mourners, including senior Turkish and Armenian officials in a rare display of unity, poured into the heart of Istanbul on Tuesday to bid farewell to Hrant Dink, the Turkish-Armenian journalist who was gunned down outside his offices last week, a death that many Turks hoped would be a catalyst for change.

The Armenian patriarch, Archbishop Mesrob Mutafyan, spoke out during Dink's funeral against curbs on freedom of expression and encouraged the thaw in relations between Armenia and Turkey that has become evident since the slaying.

"It is unacceptable to judge and imprison someone because of his thoughts, let alone to kill him," Mesrob said during the hourlong service at the Holy Mother of God Armenian Patriarchal Church. "It is mystical that his funeral turned into an occasion where Armenian and Turkish officials gathered together."

Diplomatic relations between Turkey and Armenia were frozen and their border closed in 1993 after years of grievances, chiefly over the mass deaths of Armenians at Turkish hands in 1915, during World War I. Many scholars and most Western governments accept that more than a million Armenians died in what they describe as a genocide, but Turkey says there were deaths on both sides and that they were the unfortunate result of the war. But on Tuesday, in what was widely regarded as an important symbolic step, Turkish and Armenian officials appeared at Dink's funeral services.

Lack of a Budget Could Stall Nuclear Power Revival

By **Matthew L. Wald**

THE NEW YORK TIMES

WASHINGTON

The senior member of the Nuclear Regulatory Commission warned Monday that the failure of Congress to pass a detailed budget for the current fiscal year could damage the nuclear renaissance that the government tried so hard to encourage with the energy bill of 2005.

No one has applied for permission to build a power reactor since the 1970s. But with the incentives offered by the federal government in 2005, utilities are considering building about 20 reactors, and several of them are expected to apply for authorization this year.

The commission member, Edward McGaffigan Jr., said that if the commission received applications this year, "we basically are going to have to put them on the shelf, because we're not going to have the folks to work on the applications until well into calendar year 2008."

The Republican-controlled Congress passed only two of the 11 spending bills for the fiscal year that began Oct. 1, 2006, those covering the Pentagon and the Homeland Security Department. The rest of the government has been operating under a "continuing resolution," a stop-gap measure that finances most agencies at the previous year's levels. Democrats say they plan to extend that resolution through Sept. 30, the end of the fiscal year.

According to the nuclear commission, under a continuing resolution its budget would be lower by \$95 million, or about 12 percent, compared with the level approved by the House and Senate Appropriations Committees but never by the full Congress.

Senators Say Two Resolutions On Troop Plan Should Merge

By **Carl Hulse** and **Jeff Zeleny**

THE NEW YORK TIMES

WASHINGTON

Senate critics of President Bush's troop buildup in Iraq suggested Tuesday that competing resolutions opposing the plan should be merged in an effort to attract the largest bloc of senators in a strong statement of congressional dissent.

As they prepared for the Senate Foreign Relations Committee to consider the issue on Wednesday, both Democrats and Republicans said that the two bipartisan resolutions are in fundamental agreement on objecting to the troop increase.

"The resolutions are so close in terms of the key issue: Whether or not we support an increase in military involvement and increasing the number of troops in Iraq or not," said Sen. Carl Levin, D-Mich., who is the chairman of the Armed Services Committee and a co-author of one proposal. "There are other language issues, obviously, but they are not particularly significant. The likeness and the similarities far, far outweigh any language differences."

Sen. Harry Reid of Nevada, the Democratic leader, said a hybrid version of the resolutions would produce a clearer sign of the depth of opposition to the president's plan than either of the proposals could individually. "The bottom line is that the situation we have is unacceptable and both resolutions clearly indicate that," Reid said.

Group Says Chechen Police Are Probed in Journalist's Killing

By **C.J. Chivers**

THE NEW YORK TIMES

MOSCOW

Police officials in Chechnya are under criminal investigation for a possible role in the killing of Anna Politkovskaya, a prominent Russian journalist, a New York-based news media rights group said here on Tuesday.

The assertion, by the Committee to Protect Journalists, cast fresh attention on the possibility of an official role in a crime that was roundly condemned in the West, and drew a series of swift denials from Russian and pro-Kremlin Chechen officials.

Politkovskaya, a correspondent for the independent liberal newspaper Novaya Gazeta, was killed in her apartment building in October, apparently in a contract murder.

She had written pointedly against the Kremlin under President Vladimir V. Putin, and often exposed abuses by Russian forces and the Kremlin's proxies in Chechnya, the Russian republic that has suffered a separatist war, banditry and an insurgency influenced by militant Islamic fighters. Her final article, published posthumously, made further allegations that Chechen police officers had tortured people in custody, and fueled speculation that she may have been killed to prevent its publication or as a punishment for her reporting.

OPINION



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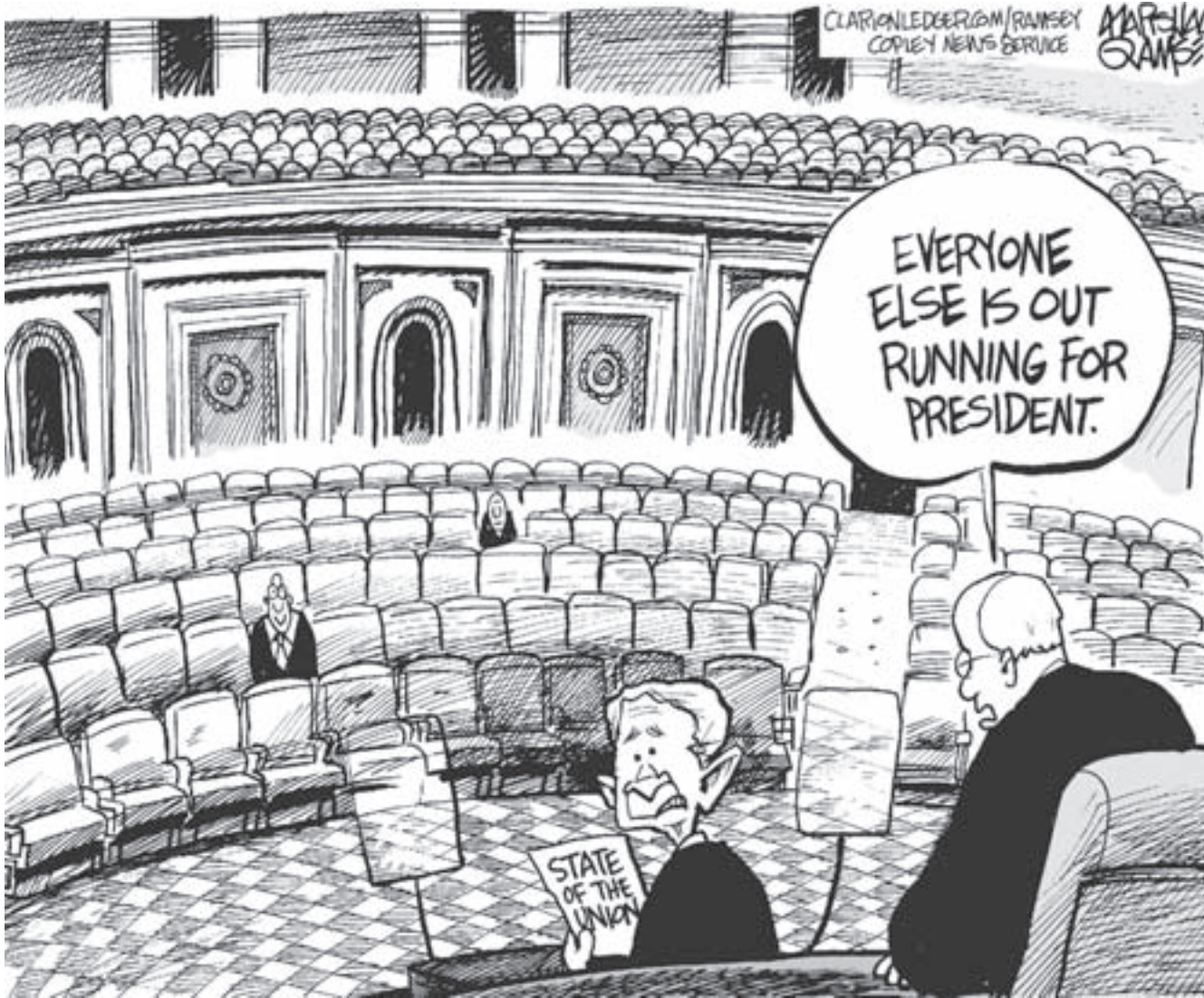
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Corrections

The article "MIT Cable Expands, 14 Channels Added" printed in the Wednesday, Jan. 17 issue mistakenly reported that MIT Weather When You Want It was not removed. It was replaced late last year by the Discovery Channel.



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ARTS

MOVIE REVIEW ★★★★★

*Fauns, Fairies, and Friggin' Tragedies**Pan's Labyrinth is Amazing, and Amazingly Sad*By Bill Andrews
CAMPUS LIFE EDITOR*Pan's Labyrinth (El Laberinto del Fauno)*
Written and Directed by Guillermo del Toro
Starring: Ivana Baquero, Ariadna Gil, and Sergi Lopez
Rated R
Now Playing

Two weeks ago, I'd never heard of "Pan's Labyrinth." Then, while watching TV with my fiancée, I saw this ad for a cool-looking new fantasy movie; it looked like a cross between "Labyrinth" (you know, the one with Muppets) and "MirrorMask." Plus, it had gotten nothing but amazing reviews from everyone. Best of all, it was rated R, so we wouldn't have to worry about an overly saccharine plot or crying babies distracting us. From this one ad, shown about 40 times an hour, we decided it was a movie not to miss.

It turns out, however, that the ad left a few things out, like the fact that it's a foreign film. Now, I love foreign movies, and was delighted

to find out this one had subtitles; in fact, the actual name of the movie, "El Laberinto del Fauno," means "The Faun's Labyrinth," handily explaining away our confusion over Pan himself not being a character in "Pan's Labyrinth." Having thus been deceived by the ad, we were left wondering what else would be different from our expectations.

Well, without being too spoiler-y, let's just say that we had no idea the movie was so tragic. There's a lot of pain and sadness and, while it wasn't necessarily a sad ending, we were still left with a horrible feeling of despair at the movie's end. Which is too bad, really, because it was a great movie. The film was visually attractive, had great acting, an interesting score, and a wonderful story. Unfortunately, I don't think I'll ever want to see it again, since it was so incredibly sad.

Having said all that, here's what it's actually about. A young girl named Ofelia moves to her stepfather's military outpost just after the Spanish Civil War, when Franco's oppression is at its peak and bloody violence between the rebels and

the military was common. Almost magically, Ofelia's world diverges: as her real world starts to fall apart — her pregnant mother falls ill and her stepfather's brutality intrudes more and more — a fairy-tale world, full of fauns and monsters, springs up before her. In addition, a subplot about a group of rebels parallels Ofelia's story throughout the movie; for instance, when someone dies on the battlefield, one of Ofelia's guardian fairies dies too. As both worlds become bleaker and bleaker, it's up to Ofelia to choose the world she's to remain in, and make the most of it.

Quite the story, and like I said, it's pulled off amazingly well. The special effects are really amazing, not just for the flat-out fantasy parts (monsters and fairies and such) but for the real-life violence, too. It's one of those movies where just choosing a scene at random yields visual delights and could spark an interesting conversation. Somehow, both the world of the oppressed Spanish countryside and the world of magic were completely immersive and, while very different, there was never a shock transitioning from one place to the other.

Equally well done was all the acting, and that's a rare thing these days. The sadistic Captain (Ofelia's stepfather), her sweet and melancholy mother, the gruff faun that guides her through the magical world, and even Ofelia herself (a twelve year old named Ivana Baquero) were each fleshed out, realistic, three-dimensional people. The entire movie felt like I was watching actual people interact, each with their own agendas and motivations, unaware that audiences of people would someday see them. Even the magical parts seemed real, which, of course, only made it that much sadder at times.

So in the end, I too join the avalanche of critics who give this movie rave reviews and accolades. But, unlike the ad, I'll tell you the rest: much like real life, this movie's beauty comes at a cost, and while it was an amazing experience, for many it might not be worth it. For those who see suffering as inevitable or essential, this is a movie that will provide not just a fantastic two hours of cinema, but countless more hours of discussion and analysis. For the rest, maybe you should forgo Pan and just go rent "Labyrinth."

CONCERT REVIEW

Haines Has Got Your Back
*Beautiful Show from Metric's Lead Singer at Paradise*By Sarah Dupuis
ASSOCIATE ARTS EDITOR*Emily Haines & The Soft Skeleton*
Paradise Rock Club
Monday, Jan. 8, 2007

I heard through the rumor mill that Emily Haines plays her solo shows blindfolded. The rumor made sense; Haines' first single since taking a break from her main musical project, "Metric," is a dizzying piano tune titled "Doctor Blind." With the help of her backing band, The Soft Skeleton, Haines' new album, *Knives Don't Have Your Back* (2006), is a tight and full set of songs that dips into melancholy, pop, and rock tunes despite the generally minimalist instrumentation. So regardless of whether or not Haines wore the potential eye gear, I was looking forward to an exciting show on January 8.

She opted out of the blindfold, but didn't disappoint. Haines started the show with "Our Hell," the opening track from the aforementioned *Knives*. She then played "Doctor Blind," the second track, and by the time she'd started "Crowd Surf Off A Cliff" I realized she was playing the album track-by-track in a chronological and complete order. Sometimes, playing an album live in its entirety can limit a performer or bore the audience. Half of the fun of seeing a concert is spontaneity and the sense of accomplishment one feels when a favorite song is performed. Luckily, Haines is talented and fascinating enough a performer to make the repertoire exciting regardless of the order it

was presented in. Live, her songs had the naked feel of an intimate performance in a hotel bar, and all the seductive appeal of a chance meeting with a stranger.

In between songs, Haines engaged the audience with a personal rapport akin to conversation over coffee. "Rain's cool if you're looking for gloom," said Haines of the evening's weather, "which I'm not." Ironically, most of her songs are just that: gloomy melodies gorgeously decorated with a tight backing band. This tone translated well in the live setting, and she was even more vocally emotive in concert than on *Knives*. Haines can turn off the rasp that defines her voice when she needs to, and at a few opportune moments she releases an energetic and resounding vocal clarity. Both ways of singing suit her and suited the show.

The highlight of the evening was undoubtedly Haines' performance of "The Lottery," a cool number that discusses the new crime of "sexual suicide" and begs its audience to "commit it." "You can commit sexual suicide by blatantly pursuing your desires... or by denying your true passions," said Haines before plunging into a more staccato, playful version of the song. Although the Soft Skeleton did not play during every part of her set, Haines' performance was so engaging she was able to convince us that the band is playing with her the entire time.

Although Emily Haines & the Soft Skeleton have ended their winter tour, *Knives Don't Have Your Back* is in stores everywhere. If you're into haunting female vocals and tastefully rocking arrangements, make sure to check her out.

FILM REVIEW

*Short Films Last Too Long To Stay Entertaining**Despite Stunning Graphics, 'The Animation Show 3' Sags Under Slow Plots*By Ray C. He
STAFF WRITER*"The Animation Show 3"*
Hosted by Mike Judge and Don Hertzfeldt
Somerville Theatre
Jan. 17-18

Eleven short films from various directors are featured on "The Animation Show 3." Mike Judge of "Office Space" fame and Don Hertzfeldt, animator and narrator of "Rejected" ("My spoon is too big") do the presenting. In addition, the show includes a number of student-created works from local groups, including the Harvard Visual Effects Studio, the School of the Museum of Fine Arts, and the Massachusetts College of Art. The show is running through March in various locations around the country, and it recently came to the Somerville Theatre in Boston.

A few of the animated films were pretty entertaining; so much so that I'd e-mail their links to my friends if I found them on the internet. The opening film, "Rabbit," by Run Wrake, has a somewhat disturbing plot but was nevertheless memorable for its cut-out animation and twisted humor. "Guide Dog," by Bill Plympton, is a chuckle-inducing five minute film about a little dog who fails to help three clients navigate the dangers of the real world. "Game

Over" puts an interesting spin on fond memories of space invaders, asteroids, and Pac-man without being so long that it becomes boring — the running time is under two minutes.

Hertzfeldt's "Everything Will be OK" has some pretty good one-liners, including jabs at human behavior, violence in the media, and medical incompetence. Unfortunately, the film doesn't provide quite enough entertainment to fill its 17-minute length, and by the end, I was consumed with boredom.

The other films in "The Animation Show" are interesting in their various animation styles which ranged from morphing kaleidoscope art to sophisticated computer graphics. One such example is Joanna Quinn's "Dreams and Desires," which has a unique flowing sketch motif. The only problem is that the plot seemed tacked on at the end merely to show off the animation. Sadly, this was a flaw that persisted in many of the films. These films may have used extremely innovative techniques, but the techniques were only about as successful in making them good short films as the special effects were in making "Spawn" a good movie.

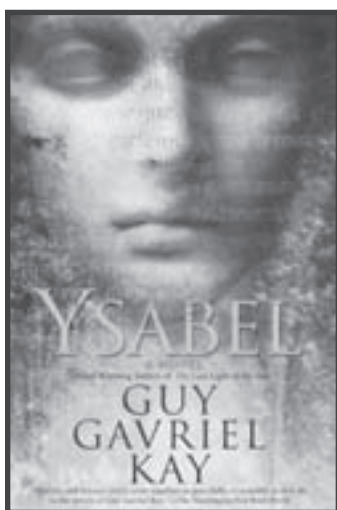
Taking all of the short films together as an 81-minute show, they were less entertaining, though containing more visually interesting animation, than the last 81 minutes worth of *Strong Bad* emails I watched.

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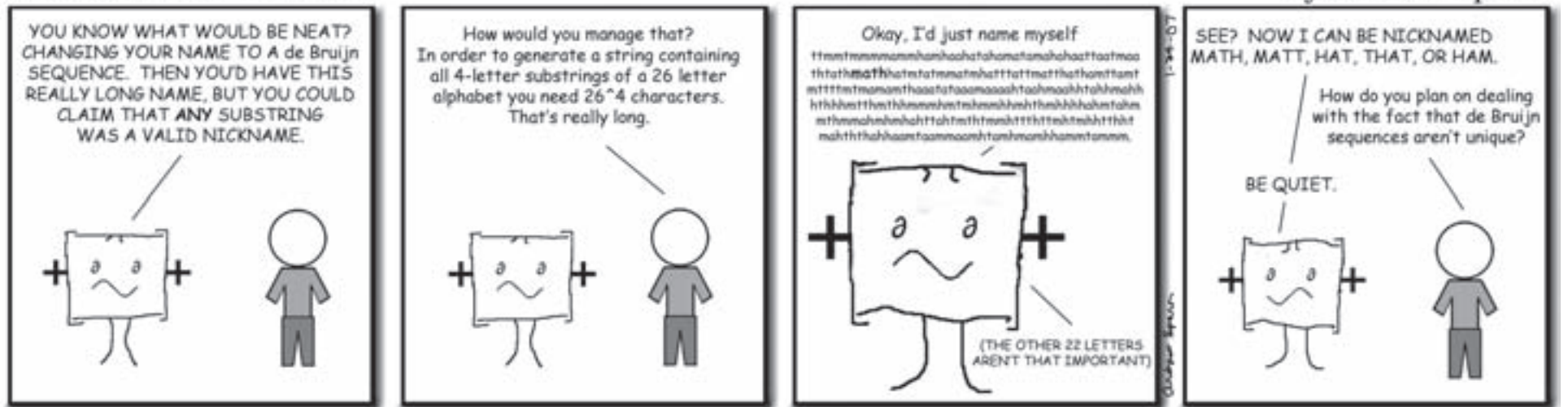
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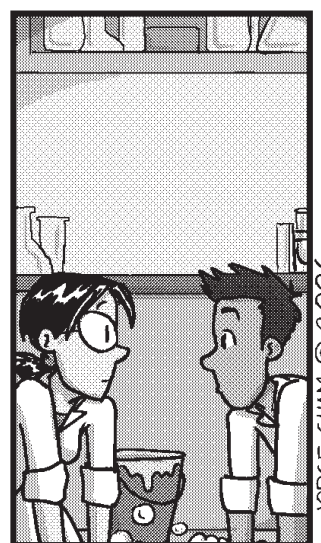
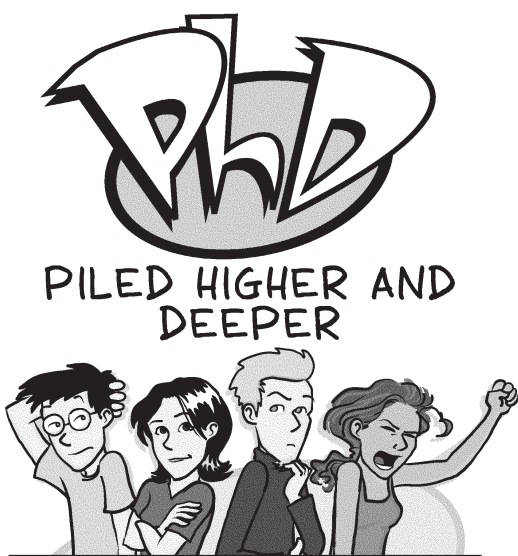


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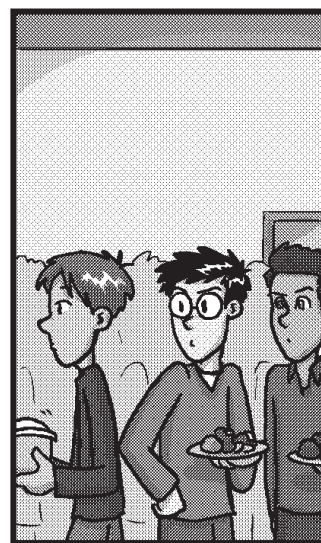
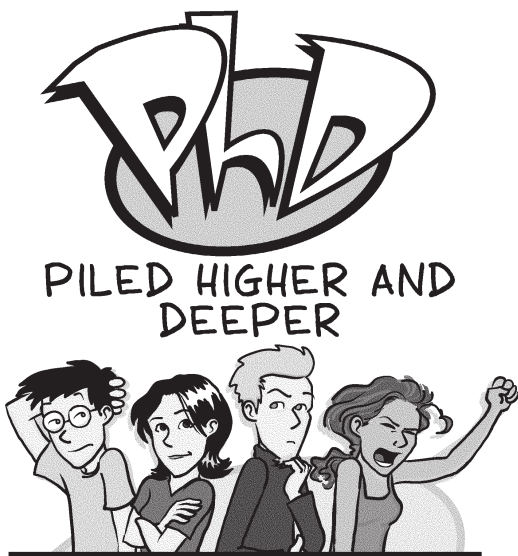
www.runbug.com

Some Assembly Required

by Alex Hornstein



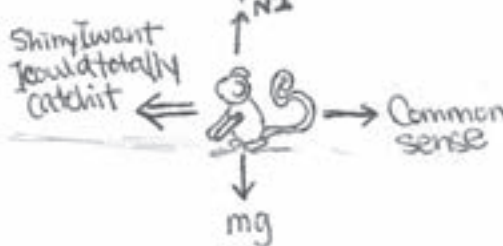
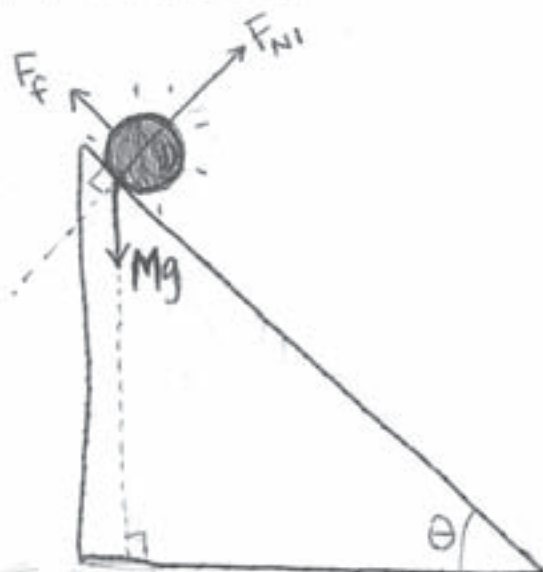
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'Simply Geometric'

'By: Danbee Kim'



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 17.

Doonesbury

BY GARRY TRUDEAU

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Collage New Music: Monday, January 29, 2007 @ 8:00pm

Pickman Hall, Longy School of Music, 27 Garden Street, Cambridge

Julian Anderson *Towards Poetry* (1998)

Martin Brody *Millennium Sightings* (1999)

John Heiss *Arguments & Meditations* (2006)

Olly Wilson *A City Called Heaven* (1989)

Tickets are not required for Collage concerts - simply show your MIT student ID at the box office on the night of the concert (one admission per ID)

Boston Secession: Friday, February 2, 2007 @ 8:00pm

First Church in Cambridge, Congregational, Margaret Jewett Hall, 11 Garden Street, Harvard Square

“(Un)Lucky in Love”

Boston Secession continues its tenth anniversary season with “(Un)Lucky in Love,” the ensemble’s alternative Valentine program. According to artistic director Jane Ring Frank, the program is designed to “add a little tongue-in-cheek bitter to balance out the icky sweetness normally associated with Valentines” by featuring the jaded and darkly humorous love songs of artists as wide ranging as Joni Mitchell, cabaret classics composer William Bolcom, the opera masters Mozart and Donizetti and 20th century greats Benjamin Britten and Peter Schickele.

Boston Chamber Music Society: Sunday, February 4, 2007 @ 7:30pm

Sanders Theater, Memorial Hall, Harvard University, 45 Quincy Street, Harvard Square

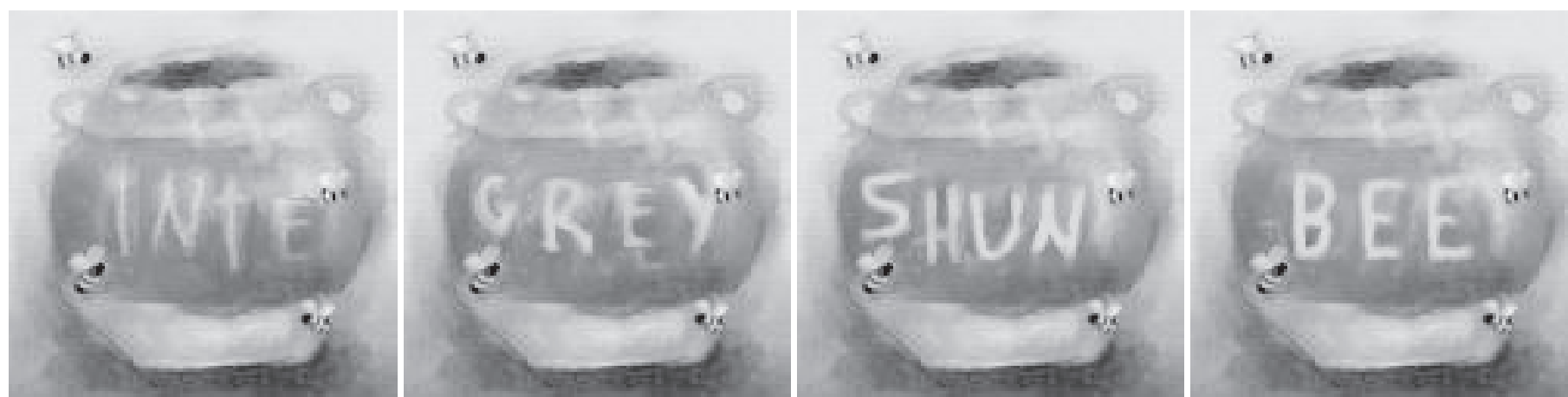
Elliott Carter *Cello Sonata* (1948)

Bartók *Contrasts, Op. 116*

Mendelssohn *Piano Trio in D minor, Op. 49*

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Professor Talks About Achievements, Changes at MIT

By Jiao Wang
STAFF REPORTER

Professor of Electrical Engineering and President Emeritus Paul E. Gray '54 started his career at MIT as an undergraduate student in Course VI in 1950. Through the years, he has served the Institute in a number of positions. He rose to become the 14th president of MIT from 1980-1990 and chairman of the MIT Corporation from 1990-1997. Since then, he has continued to teach undergraduate classes and to advise undergraduate students. This fall marks his 50th year of service to MIT.

The following is the second of a two-part interview in which Gray reflects on his early interest in science and his experiences at the Institute.

The Tech: Describe some memorable accomplishments in life.

Paul Gray: Well, I will put it in two dimensions, one of which is the family. My wife

and I both believe that the most important thing we did — we believed it at the time and we still believe it — was to do a good job of parenting. The fact that the kids are now all grown up with their own families and there have not been any divorces or problems is an accomplishment, which we don't attempt to take all the credit for. It is not easy these days for those four families to go through the pressures of life and stay stuck firmly together. For me, that is an accomplishment and I delight in it fully with my wife.

On the professional side, let me talk about some things that happened during the time that I was president, and preceding that. In 1968, following on the deaths of Martin Luther King Jr. and Bobby Kennedy that spring and summer, the African American students at MIT — they then preferred to be called "black" students — organized themselves into the Black Student Union. The principal leader of that group was Shirley [A.] Jackson '68, now president of [Rensselaer Polytechnic Institute], alumna of MIT. They presented the then president of MIT, Howard [W.] Johnson, with a list of "requests," not demands, but "requests," saying that the Institute should do these things to increase the minority presence at MIT.

President Johnson asked me to take on that task and see what could be done. I was at that time a part-time associate provost. We worked very hard to recruit in high schools and encourage folks to think about MIT. There have been changes since then. The work that began in the fall of 1968 and lasted about seven years, to the mid 1970s, was extremely difficult, demanding, at times frustrating, but enormously satisfying. It was important to MIT and to the people that came.

A very important undertaking was bringing the Whitehead Institute to MIT in 1983, but that is a longer story that is best told another day.

TT: In your inaugural speech as 14th president of MIT, you outlined certain things that you hoped to do. Do you think you accomplished what

you set out to do?

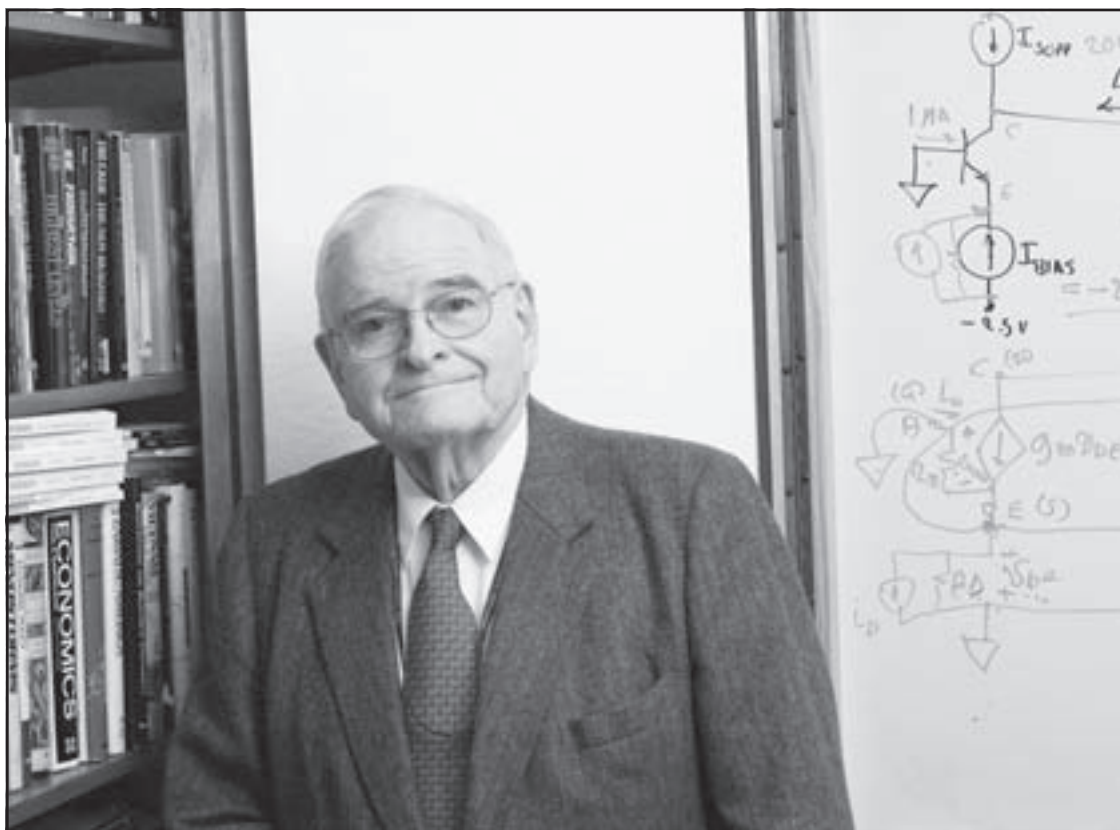
PG: To a certain degree, but not completely. I said something in that speech about turning back the throttle, about slowing the pace of MIT. I wanted to try to get faculty and students to reduce the intensity of their activities, to have a little more time for reflection and for the thinking of new ideas. That was the thing I failed most dramatically on. Someone, I don't know who, coined a phrase to describe that idea called "pace and pressure." It was a reasonable description. I made some suggestions about things that we might do to push us in that direction, but when all was said and done, 10 years later, I had to say, it didn't change that much. It is somehow built into the DNA of the place. Everyone has to be going full-speed all the time to feel fulfilled. And I said publicly at that time, I failed on that, and folks said, "Well, it might even have been worse if you hadn't tried."

TT: What do you think you succeeded in doing?

PG: I said something in the speech along the lines of changing the things that ought to be changed and preserving the things that ought not to be, the values of the place and the character. I think we did reasonably well on that. There were changes in some of the laboratory structures. Some disappeared and a couple of new ones came into being. It was in those years that we first began to put a focus on energy. The Energy Lab came about in those years.

One of the painful things that I did in those 10 years was to shut down a department. There was a department here called Applied Biological Sciences. It had evolved from ... the Department of Food Technology. In the 19th century, food technology was a big deal. It was at MIT that people learned the rules for canning food and how to do it safely. If canned food had any living organisms in it such as bacteria, they could grow under certain conditions, and you could poison people by the millions. Canning was a touchy business until ... a food manufacturer named [William L.] Underwood and a man at MIT named [Samuel C.] Prescott 1894 first laid out the sound scientific principles for doing canning safely.

The department evolved in its 80- to 90-year history, from Food Technology to Food, Science, and Technology to Food, Science, and Nutrition and eventually to Applied Biological Sciences. It was a small department, on the scale of Nuclear Science and Engineering today or Ocean Engineering before it merged with Mechanical Engineering. It had people who were doing good work in certain areas. Yet, the department lacked a focus. There was no central mission, no focus that tied it together. They were having trouble replacing faculty, hiring young faculty. And so the provost and I made a decision to shut it down. We did so in ways that protected the interests of the students and faculty who were in the pipeline. It was a time of great turmoil. Faculty and students who never thought of the possibility wondered, "Gee, what



ERIC D. SCHMIEDL—THE TECH

President Emeritus and former Chairman of the Corporation Paul E. Gray '54 still teaches MIT students today.

happens to me if somebody shuts down my department?" Eventually, we worked it through.

There is one other topic I want to talk about. By 1985, there was much concern in the United States about the ascendancy of the Japanese economic machine. This was when people began talking about the Rust Belt, the states across the northern central part of the nation: New York, Ohio, Michigan, Indiana, where automobile and heavy equipment manufacturing was occurring. People were worried that the Japanese were becoming so strong in exporting manufactured goods that they were going to eat our lunch and dinner too. The question came up in meetings of the Executive Committee of the Corporation. What can MIT do about this growing problem? What is going to happen to manufacturing in the United States under the threat of low-wage foreign competition? The executive committee is a group of seven trustees who meet once a month and spend a whole day on the concerns of MIT. Two members particularly said we're got to do something about this; we cannot just ignore it. So, we created then what was called the MIT Commission on Industrial Productivity.

It was pretty well understood by 1985 that the manufacturing productivity in the United States had been flat for at least a decade if not longer. Productivity in Japan was growing in leaps and bounds. So we put in place this commission of about 12 people, chaired jointly by the late Michael Dertouzos who was at that point director of the MIT Laboratory for Computer Science, and by Robert Solow, Institute Professor and Nobel laureate in economics. After studying this issue for two years, with support from the Alfred P. Sloan Foundation, the Commission produced a book called "Made in America." The report said there were a number of things that needed to be changed to improve industrial productivity, including the way management and unions in the big manufacturing communities interacted and the way

production systems were organized.

Among the things they said had to change was that management schools have to teach differently those folks interested in being managers of manufacturing activities. So the book came out, had quite an impact, and got a lot of publicity. The provost, John M. Deutch '61, and I said, one of the recommendations here is that management education must change. How are we going to do it here at MIT? We got the School of Engineering and Sloan School of Management to create, working together with representatives of manufacturing industries, a new graduate Engineering and management program called Leaders for Manufacturing. It has been operating for nearly 20 years now and it is still going strong. It has also been picked up at other universities.

The students who come into the Leaders for Manufacturing program must have had four to six years of experience in manufacturing before they apply. They have a very intensive two year (21-month) program, without a summer break. They start in September and finish in May 20 months later. They have been much sought after in the real world and have no trouble finding jobs. The program has not only been successful in our terms but successful in terms of its impact on industry.

One of the things that is unique about the program was that we asked engineers and managers together with representatives from industry to work it out on a clean sheet of paper. They started from scratch and said what they thought it ought to be. To do that, we had to raise a fair amount of money to get the program up and going. Over a short period of a couple of years, we raised \$40 million. It came in \$8 million chunks from five corporations who agreed to be

the principal supporters of the Leaders for Manufacturing program over a five-year period. They agreed to send some of their best people here to work with faculty in engineering and management to figure out what this program should be. It was a success story. And again, no individual can take credit for its conception and its success, but it worked out and it has stuck.

I should go back to 1968 again. An important thing that I was much involved in was the creation of UROP. The UROP program came into being in the fall of 1968. My contribution to it was to hire a remarkable young woman, now unfortunately long deceased. She died at age 47 of lung cancer — never smoked in her life. Margaret [L.] MacVicar '64, founder of UROP, made the program work. She went ahead and got it started, made it grow, and tended it until she died 22 years later. When you ask alumni what mattered to them at MIT, many say UROP. It was a very important part of their education.

TT: Is there anything at MIT that you haven't done and would like to have done?

PG: No. I had this extraordinary opportunity to begin a career here as an instructor, and then as a professor in this department. My first 13 years were in

that mode. Then I had the chance to be involved in administrative activities at the highest levels for another 26 years. For these last 10 years, I've come back and been a professor again. I have often been quoted saying that the best job at MIT is professor and I really believe it. The excitement and challenge of learning that comes out of interacting with bright students is unbeatable. That is why professor is the best job. I was delighted to have a chance to go back to it full-time in 1997 when I ceased being Chairman of the Corporation.

"I have often been quoted saying that the best job at MIT is professor and I really believe it."
—Paul E. Gray '54

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Freshman Experience, Project-Based Classes Tested

By Manisha Padi
STAFF REPORTER

Spring semester 2007 will see the introduction of several experimental Communication Intensive classes based on recommendations from the final report of The Task Force on the Undergraduate Education Commons released last year regarding possible changes in the future General Institute Requirements.

Included among the experimental courses are project-based classes and humanities courses that will be considered as possible freshman experience classes.

"Faculty are so excited about these classes," said Elizabeth D. Cooper, the senior project manager at the Office of Faculty Support. "Many of them are teaching these as overtime."

The creation of the new classes will be funded by the Alex and Brit d'Arbeloff Fund for Excellence in MIT Education. Project-based classes should allow students to "contribute to the definition of complex problems and to explore strategies for addressing them," according to the d'Arbeloff Fund's

Web site.

Cooper said that students seem to embrace the new project-based classes as enrollment is around 20 students each, full for a typical Humanities, Arts, and Social Sciences class.

Dennis M. Freeman, one of the professors teaching the new project-based Freshman Projects in Microscale Engineering for the Life Sciences (HST.410/6.07J) describes what students will be doing during the first few weeks of the new semester. "The first few weeks will involve students doing different hands-on projects," Freeman said. "For example, the first day the students might make a pattern of small tubes on a plastic plate, and then the next we could use the plate to look at properties of liquid diffusion."

"My class requires weekly progress reports and a final project that will easily cover the 20 pages [of writing] required for classification as a CI," Freeman said.

According to Freeman, the class's designers have been working with the MIT Teaching and Learning Lab to develop a set of assessments, including surveys, students

interviews and focus groups, that will determine whether the class fulfilled the goals it initially set.

Freeman foresees a few potential problems for project-based classes.

"We will have to scale up to include many more students, and it would be impossible to do with the current faculty to student ratio, which is 3:20," Freeman said. "Equipment

said Bette K. Davis, director of the HASS Education Office.

According to Davis, much of what is new are the broad concepts addressed. "They are geared toward freshmen because they are meant to be exciting and innovative. The goal is to have students discussing concepts from class in their dorms."

Shankar Raman '86, an associate professor in Literature who is teaching the new class Art of the Probable (21L.017) agrees. "The central idea of this class is mathematical probability and how it has affected society since it was officially developed in the 17th century," Raman said. "It will consider many classic texts by philosophers and novelists, but from the point of view of probability."

According to Davis, there are no specifics plans to make many more HASS classes related to science and engineering at this time.

"Though the classes are somewhat tailored to MIT students, who are very intelligent and have great problem solving skills, they are also designed to be 'blockbuster' classes that would be the envy of any university, technical or non-technical,"

said Meg Jacobs, an associate Professor of History who is designing 21H.001, or How to Stage a Revolution, to be offered in Fall 2007.

A major student complaint regarding the task force recommendations on future GIRs was that designating certain HASS classes exclusively for freshmen would severely limit choices, according to Davis.

"The idea of choice is relative here," said Raman. "Though theoretically students can choose between 50 or 60 HASS-Ds, they end up being limited to 10 or 15 based on scheduling conflicts. If the task force recommendations are voted in and these experimental classes are added to the list of freshman experience ... classes, there would be a separate time blocked out in all freshman schedules for HASS classes. That way, they would still be able to choose between 15 or 16 offerings."

The HASS classes are also working with the TLL at MIT to create class evaluations.

More information about the experimental classes can be found at <http://mit.edu/firstyear/2010/explore/spring.html>.

Several Communication Intensive classes will be introduced in Spring 2007, among them project-based and 'freshman experience' courses.

and expense would be another factor. It's unclear right now whether it would even be possible to run a class for up to 100 students — enrollment for the course is now limited to 20."

The new HASS classes are meant to teach students to think in a new way about the subjects,

EECS Students Compare New, Old Introductory Courses

Course VI, from Page 1

students will select three or four subjects from a set of foundation subjects that will consist of streamlined versions of the current Circuits and Electronics (6.002), Signals and Systems (6.003), Computation Structures (6.004), and three other classes that are still being defined, but will be focused on software, algorithms, and aspects from the applied physics

side of the department.

These foundation subjects, designed to be taken during sophomore year, are aimed to "encourage [students] to build to senior level subjects," Verghese said.

Amy J. Wooten '09 said she signed up for 6.081 because she wanted to see the different aspects of EECS. For the most part, students enjoyed the subject, although there were "some kinks" and students "didn't under-

stand [the] purpose at times," according to Christine M. Lee '09, another student who took 6.081.

Olayemi A. Oyeboode '09 said that he enjoyed the material covered in 6.082, which covers communication networks, and that the assignments were well-structured. Oyeboode, who has taken both introductory classes and was a laboratory assistant for 6.081 last fall, mentioned that from both his experience as a student and

an LA, students were often confused in 6.081, which may have resulted from how the class was designed.

All the revised and new subjects will be in "pilot mode" for at least three to four years, said Verghese.

Michael M. Haimes '09 described the new introductory classes as "more hands-on than needing a bunch of textbooks," where "a bunch of textbooks" refers to 6.001. All students interviewed mentioned that

the degree of enjoyment in the class depended on whether an individual preferred hands-on approaches or theoretical approaches.

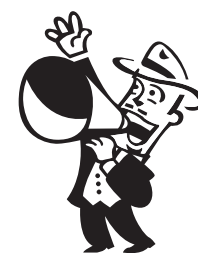
The hands-on aspects of 6.081 and 6.082 involve building mobile robots and applying concepts like radio, Fourier transforms, networks, and large systems, respectively, in weekly labs.

The EECS department will make updated plans public in the spring, according to Verghese.

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A Parody Raises Questions of Bias in Admissions

By Karen W. Arenson
THE NEW YORK TIMES

Belda Chan, a senior at Princeton University, was stunned when she encountered an article in broken English in the annual joke issue of the student daily parodying an Asian-American student who had filed a civil rights complaint against Princeton.

"The editor in chief said their intention was to spark a dialogue on race," said Ms. Chan, a history major from Massachusetts whose parents immigrated from China. "Obviously that's happened. But hate crimes spark dialogue too, and that doesn't mean they are good things and that we approve of them and that they will help in the long run."

Perhaps even more than the complaint by Jian Li that he was rejected for admission by Princeton because of his race, the article published last Wednesday has put front and center the question of whether elite universities treat Asian-American students fairly in admissions and whether those students who are admitted face bias.

"Hi Princeton! Remember me?" the parody began. "I so good at math and science. Perfect 2400 SAT score. Ring bells? Just in cases, let me refresh your memories. I the super smart Asian. Princeton the super dumb college, not accept me." Later, it said: "What is wrong with you no color people? Yellow people make the world go round. We cook greasy food, wash your clothes and let you copy our homework."

Students, faculty and college administrators have condemned the

article. The newspaper, The Daily Princetonian, printed an editors' note expressing regret for upsetting readers and saying that a diverse group, "including several Asians on our senior editorial staff," had written the column.

"We embraced racist language in order to strangle it," the note said. "At its worst, the column was a bad joke; at its best, it provoked serious thought about issues of race, fairness and diversity."

Chana kya Sethi, the Princetonian's editor in chief, who is of Indian descent, said staff members were trying to put the article behind them.

But the debate has not subsided. "The damage has been done, and we now all face the collective task of repairing our civil discourse and salvaging our university's reputation," said April Chou, chairwoman of the Asian-American Alumni Association of Princeton, in a statement published in the newspaper on Monday.

While Asian-Americans account for five percent of the population in the United States, they account for greater numbers at prestigious institutions like Harvard (18 percent), Stanford (24 percent), and the University of California at Berkeley (46 percent). At Princeton, they accounted for 13 percent of undergraduates last year, and make up 14 percent of the current freshman class.

But some critics, like Mr. Li, the applicant who brought the complaint against Princeton, contend that many colleges, even those with substantial numbers of Asian-American students, deliberately hold down the

number of Asian-Americans and that they should have a greater presence given their performance in high school and on standardized tests.

Mr. Li, a freshman at Yale, had a perfect 2400 on the SATs, top grades at his high school in Livingston, N.J., numerous Advanced Placement courses, community service in Costa Rica, and high rankings in New Jersey's math and physics leagues.

He said in an interview that the experience with the civil rights complaint, filed with the United States Department of Education in August, had been "stressful." He said he had drawn some ridicule, including the column, which he called "insensitive" and "extremely distasteful."

But he said he felt his efforts were paying off, by bringing attention to the issue. He has been invited to speak about affirmative action and at events for Asian-American students. And he heard from two students at Brown University who would like to start a national campus movement to battle discrimination against Asian-Americans. Princeton says it does not discriminate.

Some of its students say they are anguished that the newspaper parody reinforces outdated images of the campus, which long ago had a reputation for anti-Semitism.

Bryan N. Bunch, a sophomore from Atlanta, said: "I know there are many stereotypes about Princeton. Elitist, racist, insular are but a few. Maybe in the past they were," he added. "But today Princeton is genuinely an incredibly diverse place. I have friends from Korea, Africa, California and nearly everywhere in between."

"How is an outsider to know of Princeton as an accepting place when school writers seemingly indict Asians?" he asked. "It honestly saddens me that students won't apply or won't matriculate because of misinformed thoughts."

Jessica Wey, a senior from Michi-

gan who is studying molecular biology and neuroscience, said she attended a Princeton conference in the fall at which minority alumni, including an Asian-American alumnus who graduated more than 60 years ago, talked about their experiences.

"It was incredible to hear what Asians earlier had to struggle with," said Ms. Wey, whose parents are from Taiwan.

"And in comparison," she added, "we seem to have it easy, superficially. There has been great progress. Still, Princeton still has a very white feel to it that steers Asians away."

She said she has talked to potential students who have chosen not to attend for that reason. But she said such problems were more perception than reality.

Still, there were those who took the column in stride. Felix Huang, a Princeton senior from Texas majoring in chemical engineering, said he found it amusing.

"If I had read the article 10 years ago, I would've been annoyed, defensive and angry," he said, because he was "very sensitive about being Chinese."

But now, he said, he feels that being Asian-American is a blessing, and he has "absolutely no defensive feelings about it since I know that any criticisms of being Asian-American simply have no merit."

Chang-rae Lee, an author and creative writing professor at Princeton who immigrated to the United

States from Korea at age three, said of the parody, "It certainly could have been funny, perhaps hilarious, and painfully so, had it smartly satirized and skewered all involved, while underscoring the very complicated issue of Asian-American admissions practices at elite colleges — real and perceived."

He added, "Instead the piece employed the easiest, basest stereotypes of culture and character and voice for its sensational aims, offering little more than the most juvenile gloss on the issues."

"Frankly, the piece astounds me not so much for its racism as its stupidity," he said.

University officials were scathing. Janet S. Dickerson, Princeton's vice president for campus life, called the article "offensive," adding, "the students exercised poor judgment in writing it."

On Monday, The Princetonian carried a joint message from its top editors and the leaders of Princeton's Asian-American Students Association, saying they were all "frustrated that this episode has led some to believe that Princeton is an unwelcoming place for Asian-American students." They said such an impression is "not validated" by their own experiences.

They announced that they will co-sponsor a forum in the spring semester "for all community members to share their opinions" on the debate.

The article published last Wednesday has put front and center the question of whether elite universities treat Asian-American students fairly in admissions.

"At its worst, the column was a bad joke; at its best, it provoked serious thought about issues of race, fairness and diversity."

—Princetonian editors' note

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Technology Office Joins Restructured DUE

By Valery K. Brobbey
and Angeline Wang

STAFF REPORTERS

The Office of the Dean for Undergraduate Education underwent a structural reorganization last year to establish six strategic themes or goals, including providing global educational opportunities for students and increasing diversity. Two new offices — the Office of Experiential Learning and the Office of Faculty Support — were also added.

This month the Office of Educational Innovation and Technology, joined the DUE, following the reorganization of the academic computing services on the directive of the provost. The new office will focus on enabling and supporting educational innovation, according to Elizabeth A. Reed, senior associate dean in the DUE.

DUE's over-arching goal is to enhance the "educational experience for students across so many different dimensions" that encompasses students' journey throughout MIT, Reed said.

Reed said that the re-organization allows DUE to take a "really deep thoughtful look" at itself and get "lots of input from the broader

world."

Daniel E. Hastings, who became Dean for Undergraduate Education last January, ordered the restructuring process, which took six months and ended July 2006.

According to Reed, only 15 percent of MIT students report having an international experience and stressed DUE's commitment to global understanding, saying that "international experience is a very important educational goal." Reed said that DUE is devoted to creating "opportunities for students to explore" both in and out of the classroom.

The restructuring is partly inspired by the recommendations from the final report of the Task Force on the Undergraduate Commons. More specifically, the creation of the Office of Faculty Support would help the DUE in implementing the task force recommendations, according to Hastings. The DUE will play a supporting

role as the faculty decide whether to accept the task force report's recommendations.

Terrascope and Concourse, which were originally part of the School of Engineering, are now under the administration of the DUE through the new Office of Experiential Learning. The office also oversees the Edgerton Center, according to J. Kim Vandiver, who will oversee the new office.

The new Office of Educational Innovation and Technology is intended to improve communication throughout the faculty and to serve an outreach function, according to Hastings.

"We want a place that enables faculty to undertake educational innovation ... part of the mission is to look outside at other universities" for ideas.

"Are our students learning better? Technology has to enable that," Hastings added. "If it doesn't, it's wasting our time, but there's no way

to know until you try it."

No new staff was hired for the re-organization, according to Hastings, although Literature Professor Diana Henderson was brought in to head the Office of Faculty Support. Additionally, the Office of Educational Innovation and Technology brought in staff from Information Services & Technology.

Julie B. Norman, director of Undergraduate Advising and Academic Programming, said that her department is responsible for the theme of developing a "holistic student experience." Norman said that the Academic Resource Center had been transformed into the UAAP because "we now have much more comprehensive responsibilities and ARC didn't reflect that."

One of the projects being undertaken by Norman's Office is called the best practices review, in conjunction with all the undergraduate advisers. The UAAP will share the information from the review with academic departments and work with faculty members to improve advising.

Other projects being undertaken by the UAAP include an electronic newsletter and better training for graduate students to improve UROP supervision.

Three new offices were formed in the Office of the Dean for Undergraduate Education, focusing on faculty, innovation, and experiential learning.

MIT 'Geek' Contestant Kicked Off Last Week

Geek, from Page 1

to this show (even though I only started watching this season, which will have run for four weeks after tonight's episode), I had to ask Matt how much of the show was "real" and how much was scripted, or the result of producers putting a negative slant on what had really happened. Were the cliques of blondes and the catty drama staged?

"It was worse, in my opinion," Matt insisted, mentioning that only three girls (two of which were eliminated earlier in the show) besides his brunette partner Andrea would speak to him since the rest formed a clique that was not too fond of Andrea.

The eight geeks, on the other hand, got along together just fine.

"I think the guys who were in the house were very laid back. We all like to win things and we all were reasonably competitive but we weren't competitive like some of the girls were, or competitive like some of the guys from past seasons were. We were enjoying ourselves, we each had something we wanted to get out of the experience, and we went with the flow a lot more."

I found myself wondering how much common ground these geeks shared. I mean, geeks are pretty much the same everywhere right? Wrong.

"I think we had less common ground than the girls. You think about the people from MIT, we're all essentially the same, but the geeks they had there weren't all like math geeks. That was me and Niels.

"Then you had the two from Harvard, who studied social anthropology. Their interests are completely different from mine. The stuff they want to talk about is like current events and politics, and Harvard-type stuff. Then you have Mario, who's four years older than the next oldest geek. He's from the Mid-West. He works at a newspaper now; he studied Theology in school. I guess the reason he was there was comic books."

Perks of the show

The contestants on the show reside in a beautiful mansion while they are still in the running for the \$250,000 prize. It turns out, though, that the mansion itself is not really a perk of being on the show.

"They rave about this mansion, but essentially all the mansion is is a TV set," Matt explained. "It's not used as an actual house regularly. There are issues with that; the house didn't have a dishwasher, the plumbing was worn out. It was

smaller than I think Theta Xi was."

For the MIT graduate, the best part about living there was the abundance of food.

"They had like three options for the two vegetarians ... that was probably the best I've eaten in the four years that I was in college. I had never done three meals before."

Product placement, by sponsors including Dentyne, Deja Blue, and Snapple, was also a big plus.

"Dentyne was a huge sponsor. There was Dentyne everywhere! Unfortunately, Andrea and I were not expecting to be going home this week, so we didn't take a box of Dentyne with us or anything, which I wish I would have done," he joked.

Studying Fashion 101

In case you haven't been watching, in tonight's episode the remaining five pairs are supposed to go on a vacation to the beach, although Matt told me he wouldn't call it a vacation exactly.

"It can be very stressful. I mean, for two weeks when Andrea and I were studying, it was like studying for finals. You only had so many days to learn books worth of stuff."

For example, in the episode on which Matt was eliminated, the geeks had to become experts on men's fashion while the girls tackled marketing.

Matt was given study materials written by Carson Kressley from *Queer Eye for the Straight Guy*. "It was about 120 pages or so, and I had it completely memorized," Matt said. "I knew everything that was in the book. It was things you should or shouldn't do about men's fashion. They had pictures of all these types of shoes, all these different types of suits..."

Anything that could be put to use?

Perhaps. Although Matt had already forgotten much of what he'd memorized, he still remembered "things that are useless like what are three types of suits — Italian, American, and British. I think those are them ... don't quote me on that. I remember that. Maybe some things about shoes.

"The only thing that I really took out of that book was 'Don't wear pleated pants.' So when I went shopping at Banana Republic this summer to get stuff to wear to work, I did not buy any pleated pants."

Extreme Makeover: Geek Edition

This prompted the question of what he wanted to get out of the show in the first place. A makeover

to be less geeky? The prize money?

"In high school I watched all the girly shows on the WB," he said. "I really like soap operas. I watched the first season of *Survivor* when reality TV was new and cool. I watched a lot of it. Lately, I'm not a huge fan. I like *Beauty* and the *Geek* of course. But I always liked TV and I wanted to see how it was made. And in a setting that I wasn't going to have to be an actor.

"Ideally I wanted to win [but] I wasn't going in there saying 'I need to win this, I need to win this.' The only thing I didn't want was to go home first. So it sucks we didn't get to stay there longer, but I had a chance to learn what I wanted to learn and it was a fun experience. But I didn't go in there thinking 'I'm a geek beyond hope and I need these girls and I need a makeover.'"

Nevertheless, the makeover episode, where they went to the boutique Kitson, which according to Matt is a favorite of such celebrities as Jennifer Aniston, was an interesting experience for the extremely slim contestant. With his skinny frame, Matt had problems finding clothes that would fit properly.

"[The show] made a big deal out of showing Mario and how it didn't work for him, but Mario and I have about the exact opposite body types. Whereas the stuff wasn't going to fit Mario because he was a little heavier than the rest of us, stuff wasn't going to fit me because I was too skinny. The only belt I could get had these ugly spikes on it, and the pants I had were like falling off because we only had half an hour in there and the closest jeans to my size were still a little too big. Same thing with the shoes and everything."

In the end, the biggest change from the makeover for Matt turned out to be him taking off his glasses and putting them in his pocket.

Facing fears and other problems

After reading in last week's Tech interview in the arts section that Matt was not afraid to talk to girls or be around them, I was curious as to what he was afraid of doing on the show.

"The third challenge where we had to get up on stage and prance around [for a date auction], that's very uncomfortable for me," Matt admitted. "Those were the types of things that I was really nervous about when I was about to start doing the show and once the show started. Things that I'm just not good at, that I have no interest in being good at. Like modeling, or selling myself based on looks and selling myself based on my coordination or ath-

letic ability. Another biggest weakness is I'm not very good at meeting people. I'm an acquired taste, that's the way my parents put it."

His parents were supportive of his venture onto reality television with one exception: Matt had to miss graduation to film the show.

"That was the only reason. Like for me, I don't personally care about missing graduation. It would have been nice to have more closure to MIT, but when you think about how much work you put in to graduate, I think what's a bigger experience is when you go on WebSIS for the first time and it says 'All Institute Requirements Complete' with a degree on it."

The aftermath

Inevitably, Matt has gained a sudden fan base of people who have been watching the show, and for him, the biggest change since his time on *Beauty* and *The Geek* "is having random people know [him]."

He joked about the nature of some of the comments he's read on online blogs — ranging from "You should eat a lot of cheeseburgers" to "He has a cute face but his body kind of looks like a kangaroo."

After mentioning he'd been recognized by three or four people on the street, he hesitated when I asked him if there had been any weird encounters.

"Nobody's done anything weird. There was this one girl who kind of screamed but it wasn't like a good scream. Like you think about the scream you'd expect: Say I'm Brad Pitt, and I'm walking down the street, and somebody screams. You can think about that scream. Now imagine you're me, and you were on this show that's not meant to be flattering, and now I'm walking down the street and people recognize me — there's going to be a different kind of scream."

To my disappointment, he refused to re-enact the scream.

One last word on being geeky

There was just one last question I was burning to ask, and after almost an hour of chatting with Matt, I was fairly sure he wouldn't be offended.

Did he try to make himself more geeky than he really is?

"No. Not at all. I tried to be myself as much as possible, if anything I was more reserved than I generally am, just because I didn't know the people, and it was a crazy experience. But I wasn't trying to look like a geek. If anything, I was trying to look the least geeky."

I'm sure most of us at MIT would have done just the same.

Neuroscience Professor Named New Picower Institute Director

By Swetha Kambhampati
STAFF REPORTER

Brain and Cognitive Sciences Professor Mark Bear was appointed director of the Picower Institute for Learning and Memory on Jan. 1. He succeeds Biology Professor Susumu Tonegawa, who stepped down as director at the end of last year after serving 12 years.

Bear will serve a one-year term as MIT searches for a permanent director, according to the MIT News Office.

Bear said that his first goal is to launch the Center for Neural Circuit Genetics, a new initiative that will focus on ways to study the contributions of specific neurons to brain function.

Another major goal is to secure "venture funding" for all PILM laboratories with priority given to faculty early in their careers.

There has been tension between PILM's former director Tonegawa and other MIT faculty over the failed recruitment of a young female scientist to the McGovern Institute for Brain Research, another neuroscience group at MIT. A report investigating the controversy criticized the competitive relationship between the research groups.

There are a lot of lessons to be learned and incorporated from the recent report investigating the neurosciences at MIT, Bear said. The investigative committee is planning to release a modified version of the report.

Bear said that he hopes to improve communication and collaboration between the departments and research centers. "The success of McGovern is necessary for Picower, and vice versa," Bear said. "We have already started col-

laborating in research projects and we hope to continue that in the future."

Dean of Science Robert J. Silbey consulted with the neuroscience faculty to determine the new director. "We are very proud and happy to have Professor Bear as our next director," Silbey said. "He is a well-known scientist, fine teacher, and has all the personal skills it takes to be the leader."

"I'm honored," Bear said. "Now I know what Harry Truman felt after Roosevelt died. Suddenly you're thrust into a position of great responsibility and expectation."

Bear, a Howard Hughes investigator, was a professor at the Brown University School of Medicine for 17 years prior to coming to MIT. He has written a number of books, including a popular introductory neuroscience textbook.

Rupture of Water Pipe Disrupts 21 Buildings

Water Main, from Page 1

4 p.m."

However, water pressure in East Campus dropped significantly when the City of Cambridge shut the water off to proceed with repairs after establishing access to the broken main at 7 p.m. "EC has flushometers on their toilets," Collins said. "When the pressure is low, they cannot fill with water. This was a problem all

night."

In the two affected dormitories, the aerators on the faucets that catch small debris in the water were cleaned out. No further repairs were needed, according to Collins.

"MIT mechanics investigated all of the impacted buildings to insure that all pumps and other components were working correctly," McCormick said.

It's onset can be so subtle you don't notice it.

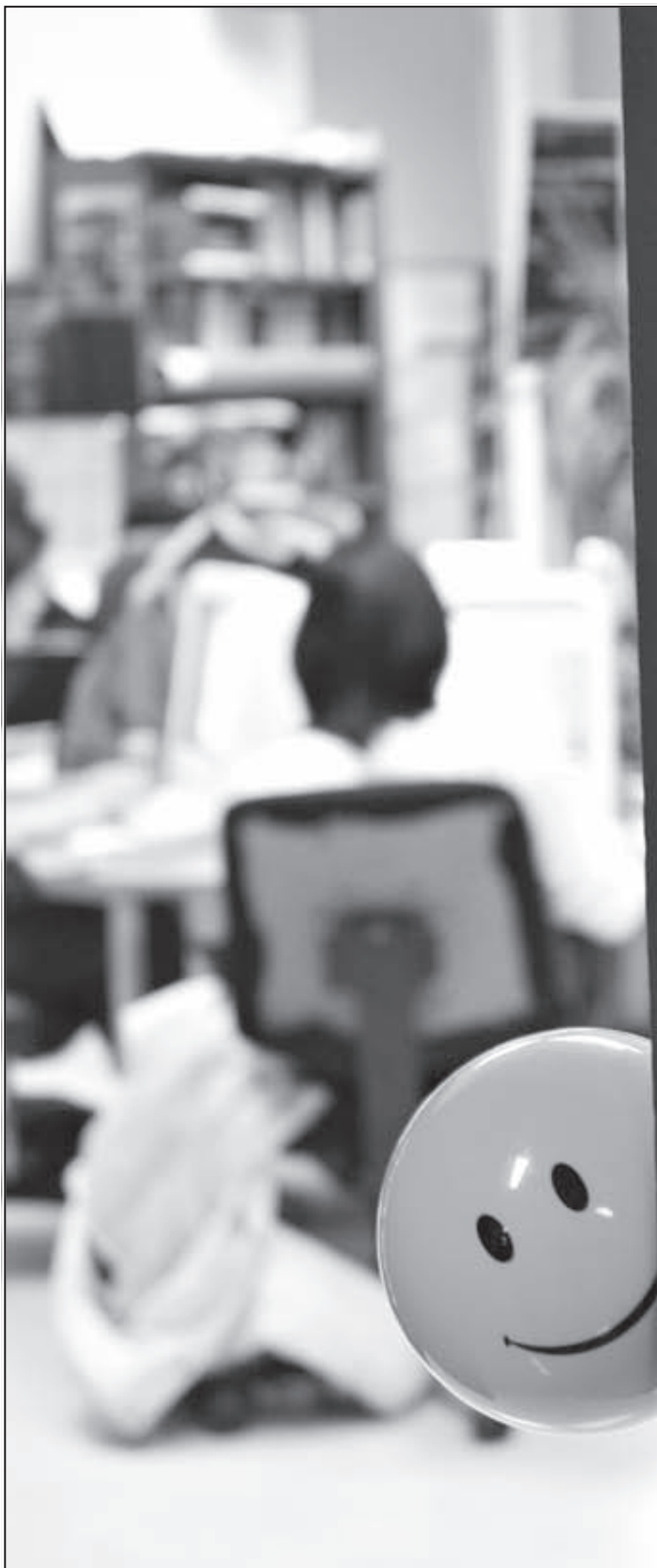
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W20-483

20.104 Chemicals in the Environment: Epidemiology, Toxicology and Public Health

(Same subject as 1.081, ESD.053J)

William G. Thilly and Robert McCunney

thilly@mit.edu

mccunney@mit.edu

Prereq: 5.112 or 3.091, 7.01x

Units: 4-0-8

Lecture: Tuesday and Thursday T3-5 (56-180)

Relationships between exposure to occupational and environmental chemicals and radiation and risk of human disease. Analysis of U.S. historical data to delimit the historical timing of changes in environmental risk. Analysis of statewide community data to explore the concept of local environmental risks. Basic biochemistry and population genetics of inherited risk factors in drug metabolism, DNA repair and tumor suppression. Potential role of exogenous agents in tumor initiation and/or stimulation of pre-cancerous growth. **New this spring:** a series of occupational case studies presented by the former president of the American College of Occupational and Environmental Medicine and editor of the text "A Practical Approach to Occupational and Environmental Medicine".

Nelnet Student Loan Company Will Keep Millions in Subsidies

By Jonathan D. Glater
THE NEW YORK TIMES

The Bush administration reached an accord with a student loan company that will let it keep \$278 million in subsidies that the inspector general of the Education Department found improper, the department said yesterday.

Under the agreement, the department will suspend future payments of more than \$800 million, in addition to the \$278 million paid to the company, Nelnet, until an audit determines whether the company was eligible for the money.

The inspector general's office said Nelnet billing practices could lead to its receiving that much in overpayments.

Under Secretary of Education Sara Martinez Tucker said the department had decided not to recover past payments because such a precedent might require it to pursue other loan companies, too, possibly driving smaller ones out of business and reducing borrowing options.

"We were trying to make the best decision for the taxpayer and the student," Ms. Tucker said in a conference call with reporters.

The settlement drew criticism from Democrats in Congress days after the House approved a bill to cut interest rates on some new federal student loans and reduce lenders' guaranteed profits.

"The administration should have settled for nothing less than the full recovery of Nelnet's ill-gotten proceeds from these loans," said Senator Edward M. Kennedy, Democrat of Massachusetts and chairman of the Senate Health, Education, Labor and Pensions Committee. "The Department of Education's settlement is a loss for students and taxpayers, who are the victims of Nelnet's greed."

Representative George Miller, Democrat of California and chairman of the House Committee on Education and Labor, said his panel would investigate the accord. "We will ensure that taxpayer dollars are

used properly," Mr. Miller said in a statement.

Mike Dunlap, chairman and co-chief executive of Nelnet, of Lincoln, Neb., said the company had done nothing wrong.

"We are pleased to have reached a resolution that allows us to avoid costly litigation to demonstrate the merits of our position," Mr. Dunlap said.

The audit by the inspector general found that Nelnet had improperly exploited a subsidy program that guaranteed it 9.5 percent interest on loans. The guarantee was established in the 1980s, when interest rates were high, to keep lenders in the college-loan business.

Congress tried to rein in the program in 1993, but the loans ballooned as lenders found ways to increase their portfolios of loans that they said were eligible for the guarantee.

In September, the office of the Education Department inspector general said Nelnet, acting when interest rates were low, enlarged its portfolio of eligible loans to nearly \$3.7 billion in June 2004, from \$551 million in March 2003. The report found that the increased amount "was ineligible to be billed under the 9.5 percent floor."

As of Dec. 31, Nelnet said it had \$3 billion in loans it considered eligible for the 9.5 percent payments.

Nelnet is not the sole lender accused of using such techniques. The Education Department said it would stop paying claims from other lenders seeking subsidy payments until those claims had been audited.

In 2005, the inspector general found that a nonprofit loan company in New Mexico improperly exploited the subsidy program to obtain millions of dollars in overpayments. That lender, the New Mexico Education Assistance Foundation, was also allowed to keep the subsidy it had received.

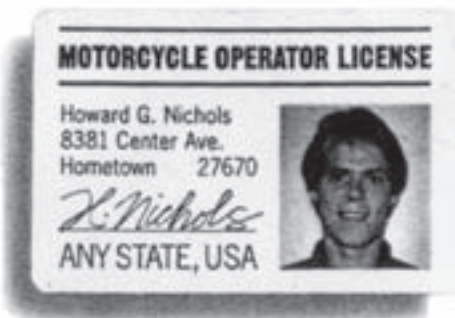
The issue is politically charged. Democrats have in the past accused the Education Department of being lax in preventing lenders from exploiting the program, in part because of the administration's connections with lenders. Nelnet officers and its political action committee have been major donors to Republicans.

The Education Department had said it was following policies that the Clinton administration established.

Democrats have made the loans a prime issue, focusing on soaring costs of higher education and college graduates' increasing debt burdens.

Nelnet had improperly exploited a subsidy program that guaranteed it 9.5 percent interest on loans.

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A motorcycle operator license is more important than you think. The fact is, unlicensed riders are over-represented in fatal crashes. So get your license. While an afternoon at the DMV isn't much fun, having a license is something you can live with. MOTORCYCLE SAFETY FOUNDATION

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Try an exciting new hands-on, team-based class this spring, and meet a CI, HASS-D, or HASS-Elective requirement in the process.

Pre-registration is open until 5 p.m. Thursday, January 18th.



2.00AJ (16.00AJ)	Fundamentals of Engineering: Exploring Sea, Space and Earth Student teams complete space, earth, and ocean exploration-based projects.	CI
2.00B	Solving Real Problems Students work on projects ranging from toys for children to amusement park rides and products for use in developing countries.	CI
4.001J (11.04J)	CityScope Destination 2007: New Orleans Students consider the contemporary city as a complex system within a context of limited resources and competing interests; and a spring break visit to New Orleans.	CI HASS-E
5.92	Energy, Environment and Society Students explore energy issues and community dynamics in projects that have the potential to affect local energy management.	CI
HST.410J (6.07J)	Projects in Microscale Engineering for the Life Sciences Students learn to manipulate and characterize cells and biological molecules using micro-fabricated tools.	CI
21L.017	The Art of the Probable Students examine literary texts and films in relation to the history of the idea of probability.	CI-H HASS-D
21M.616	Learning from the Past: Performance, Drama, Science The subject meets with 21L.016 and focuses on theatrical texts; students explore Western Europe in the 17th century.	CI-H HASS-D
21L.016	Learning from the Past: Drama, Science, Performance This subject meets with 21M.616 and focuses on cultural and literary analysis; students explore Western Europe in the 17th century.	CI-H HASS-D

For full class descriptions visit <http://mit.edu/firstyear/2010/explore/spring.html>
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Solution to Crossword
from page 6

T	I	B	E	T	A	N	T	I	V	A	S	T
E	M	O	T	E	B	O	W	S	I	G	O	R
A	F	O	U	L	A	R	I	A	S	I	R	E
					M	I	L	E	S	A	N	D
I	R	E	T	O	E		O	A	T	E	R	S
M	O	R	E	A	N	D	M	O	R	E		
A	V	A	I	L		I	R	A	S	A	A	B
G	E	N	R	E		T	N	T	H	E	L	L
E	D	G	E		H	I	S		Y	E	T	I
					N	E	C	K	A	N	D	N
H	A	T	B	O	X		W	A	R	R	E	Y
A	G	A	I	N	A	N	D	A	G	A	I	N
W	R	I	T		G	E	A	R		T	R	A
K	E	N	T		O	V	I	D		E	A	T
S	E	T	S		N	E	S	S		S	N	E

Princeton Chooses Not to Raise Tuition For Next Academic Year

By Karen W. Arenson
THE NEW YORK TIMES

For the first time in 40 years, Princeton University will not raise tuition for the next academic year, the university announced yesterday. Tuition will remain \$33,000, but room and board costs will jump.

University officials said that their strong investment performance last year — a return of almost 20 percent — helped clear the way for the decision, along with “generous” alumni donations and an increase in enrollment.

Officials said a decision by trustees to spend more of the endowment, which totaled about \$13 billion in June, also helped. “We are

aware of the concerns people have about the high cost of sending kids to college,” said Robert K. Durkee, vice president and secretary of the university.

Princeton said its tuition increases have been “at the bottom end of the university’s peer group” over the past 10 years.

Colleges and universities have faced sharp criticism from Congress and elsewhere in recent years because their tuition increases often outstrip inflation. The College Board said in an annual report that on average, tuition and fees had increased 5.9 percent, to \$22,218, in the current academic year at private four-year campuses, and 6.3 per-

cent, to \$5,836, at public four-year colleges.

Although Princeton will not increase tuition, it said it will raise the price of room and board by 19 percent, to \$10,980. That will increase the annual cost by 4.2 percent, to \$43,980, for an undergraduate with a full meal contract.

Financial aid will be raised for students who qualify, officials said. Princeton will still be among the country’s most expensive colleges.

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Police Log

The following incidents were reported to the MIT Police between Jan. 1 and Jan. 11, 2007. This summary does not include incidents such as false alarms, general service calls, larcenies, or medical shuttles.

- Jan. 3:** M32 (32 Vassar St.), 1:54 p.m., Michael Benjamen, Pine St. Inn, Boston, Mass. arrested by officer for trespass after notice.
- Jan. 4:** Fowler St., 7:55 p.m., Breaking and entering of motor vehicle, change stolen.
- Jan. 5:** W85 (540 Memorial Dr.), 12:11 a.m., Party outside yelling; routine check made.
- Jan. 6:** BTP (119 Bay State Rd.), 10:03 a.m., Fraternity problem.
NW86 (70 Pacific St.), 3 a.m., Reporting person reports that two male subjects are attempting to break into a motor vehicle on Pacific St.; MIT Police responding all units clear, Cambridge Police Department has subjects in custody.
W59 (201 Vassar St.), 7:52 a.m., Grounds worker reported window to vehicle smashed.
- Jan. 7:** M2 (182 Memorial Dr.), 9:08 a.m., Pulled false fire alarm in Bldg 2.
M50 (142 Memorial Dr.), 4:47 p.m., Hawk crashed through window on first floor of M50, escaped unharmed.
E19 (400 Main St.), 6:09 p.m., Routine check of group of youths in the Ford Lot; all units cleared.
- Jan. 8:** 7 Cambridge Center, 10:15 a.m., Report of suspicious package; checked out okay.
- Jan. 9:** E19 (400 Main St.), 11:56 p.m., Reports missing employee; last heard from at approximately 6 p.m.; missing party was located at home residence by his hometown police department.
- Jan. 11:** NW86 (70 Pacific St.), 1:49 p.m., Missing key.
W1 (305 Memorial Dr.), 3:44 p.m., Reporting person reports accident on Harvard Bridge; Cambridge Police Department notified and Massachusetts State Police enroute.

COMPILED BY ANGELINE WANG

Solution to Sudoku

from page 7

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

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Give yourself credit for learning to help others: register for one of these new service-learning seminars.

Pre-registration is open until 5 p.m. Thursday January 18th.

NEW SPRING 2007 SEMINARS!

SP.713	Promoting the Arts Through Design Undergraduates in this seminar will work with the Callithumpian Consort, a local, non-profit, avant-garde, chamber music group, to design an interactive website with sound, visual, and text components.
SP.776	Design for Demining Landmines are a persistent problem in many developing countries and Design for Demining is an exciting chance for students to invent products for a real-world application that could change or save people's lives.
SP.778	Toy Product Development Hasbro Toys and MIT have joined forces to bring you Toy Product Development! In this class, you will work in small teams of students to design and develop a new toy product concept. Find out more at http://web.mit.edu/sp.778/www
SP.784	Wheelchair Design in Developing Countries (WDDC) Wheelchair Design in Developing Countries (WDDC) will give students the opportunity to help the 20 million people who need wheelchairs in the developing world. Find out more at http://web.mit.edu/sp.784/www

For full class descriptions visit <http://mit.edu/firstyear/2010/explore/spring.html>
First year students are encouraged to register.

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- * **GPA**
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- **Top three office location preferences* — these may be written in your cover letter**

**Note: The Boston and Miami offices do not offer summer Associate internships*

Men's Swimming Loses to Tufts Despite Racz Breaststroke Wins

Aquatics, from Page 20

yard butterfly (1:59.58) and the 400-yard individual medley (4:20.98).

Racz, who has impressed throughout his freshman season, lowered his NCAA "B" cut time in the 100-yard breaststroke for the second time this season. On this occasion, he clocked in at 58.24, earning the victory in the process. The Bratislava, Slovakia, native also led a 1-2 Tech finish in the 200-yard breaststroke, touching the wall first with a time of 2:09.22, while teammate Calvin D. Kao '08 followed up closely at 2:14.25.

The Engineers also notched a pair of relay victories, in both the 200-yard medley and the 400-yard freestyle. The medley team consisted of Edwards, Racz, Hu and Luke R. Cummings '10, while the freestyle team was comprised of Edwards, Cummings, Jeffrey Y. Zhou '10 and Peter J Wellings '09.

Tufts was led by Gregory Betten-court and Patrick Kinsella, who each picked up multiple victories. Betten-court finished first in the 200-yard freestyle (1:43.28), the 100-yard freestyle (47.90) and the 100-yard butterfly (52.60), while Kinsella won the 1000-yard freestyle (10:04.30) and the 500-yard freestyle (4:52.32).

The Engineers will return to the water on Saturday, January 27, when they travel to Amherst College to take on the Lord Jeffs in a meet that will begin at 1:00 p.m. The Jumbos will next compete when they host Bates College and Wheaton College that same day at 12:00 p.m.



Lauren P. Cipicchio '10 rotates in the air in the women's three meter diving competition at Saturday's swim meet against Tufts. The Engineers won 162-138.

WILLIAM YEE—THE TECH



AARON SAMPSON—THE TECH

Michael Demyttenaire '10 (right) and Philip M. Rogoz '10 (center) block a spike from Mount Ida College during the MIT Men's Volleyball team's season opener. The Engineers won the game 3-0.

Meet-High 46 on Beam Not Enough For Tech

Gymnastics, from Page 20

rison was MIT's top scorer, finishing second overall with a 9.375.

The Engineers then moved on to the beam, where they racked up a team score of 46.00, best in the competition. Gillian S. Conahan '10 put

up a career-high 9.325, while Zimmerman (9.55) and Sarah N. Trowbridge '08 (9.525) nabbed MIT's best scores. Zimmerman's mark placed her second overall in the event.

Tech concluded its afternoon on the floor exercise, where Zimmerman (9.500) and Harrison (9.350) continued to be the Engineers' most consistent competitors with solid scores to finish the event.

"Finishing on floor in your home gym seems to add to the hosting experience and our routines continue to be crowd pleasers," said Miller-McEachern. "I haven't left a meet yet where the judges and spectators haven't complimented our unique and beautifully choreographed routines."

The Engineers will look for their first win of the season on Sunday, Jan. 28, when they travel to Providence, R.I., to take on Brown University in a meet that is scheduled to begin at 1:00 p.m.

Diana Nee Shoots Well In Narrow Sunday Win

Pistol, from Page 20

Engineers were unchallenged but shot anyway. They scored 1,067 in the air portion and 1,583 in the sport portion. Nee led the way with a 369 in air while YunJa Chen '07 shot a 354. Kendall M. Werts '07 rounded out the group with a mark of 344. In sport pistol, Nee paced the squad with a total of 541. Chen finished close behind with a score of 539 as Werts registered a 503.

On Sunday, MIT narrowly defeated the Mariners 2,196-2,150 in air pistol. Cox was again the winner with a 558, but Nee closed the gap by shooting a 552. Palaniappan (550), Daipan Lee (549), and Samuel Lee (545) placed third through fifth to seal the win as Merchant Marine's next shooter came in at 535.

Nee picked up her first win of the day following a 549 performance in standard pistol as Cox finished two points behind her. Palaniappan shot a 542, followed by Hu's 538 and Daipan Lee's 521, which resulted in a 2,150-2,054 victory.

In women's air pistol, Nee led the group with a tally of 372 en route to a 1,060 team total. Chen and Werts wrapped up the scoring with marks of 352 and 336, respectively.

Track and Field Dominates Competition



This past Saturday the MIT men's and women's Track and Field teams participated in a meet against Westfield State College, Williams College, and Rensselaer Polytechnic Institute. The men's team placed first overall, while the women's team tied for first with Williams College.

(clockwise from left)

Eric M. Beecher '10 soars over the bar in the high jump competition

Christine Fanchiang '07 races through the 55 meter hurdles.

Obinna C. Anyanwu '09 leaps into the sand pit during the long jump competition

Photography by William Yee

SPORTS

Men's Volleyball Blanks Lesley, Elms in Uncontested Tri-Match

By Mindy Brauer

ASSISTANT DIRECTOR OF SPORTS INFORMATION

Nationally-ranked No. 11 MIT defeated Elms College (30-21, 30-16, 30-18) and Lesley University (30-24, 30-11, 30-16) in a men's volleyball tri-match on Saturday, with neither match ever closely contested. Elms recorded a 30-9, 30-20, 30-11, decision over Lesley in the second match of the day.

Against Elms, Praveen Pamidimukkala '08 paced MIT (3-0, 1-0 NECVA New England) with 16 kills on 21 attempts with one error for a .714 hitting percentage to go along with eight digs and four blocks.

Michael Demyttenaere '10 connected on six of his seven attempts while posting a team-high six blocks. Philip M. Rogoz '10 recorded a solid outing as he finished with 35 assists, eight digs, and five blocks. Ryan G. Dean '08 posted a team-leading nine digs and three aces while Eric R. Reuland '10 tacked on three aces of his own.

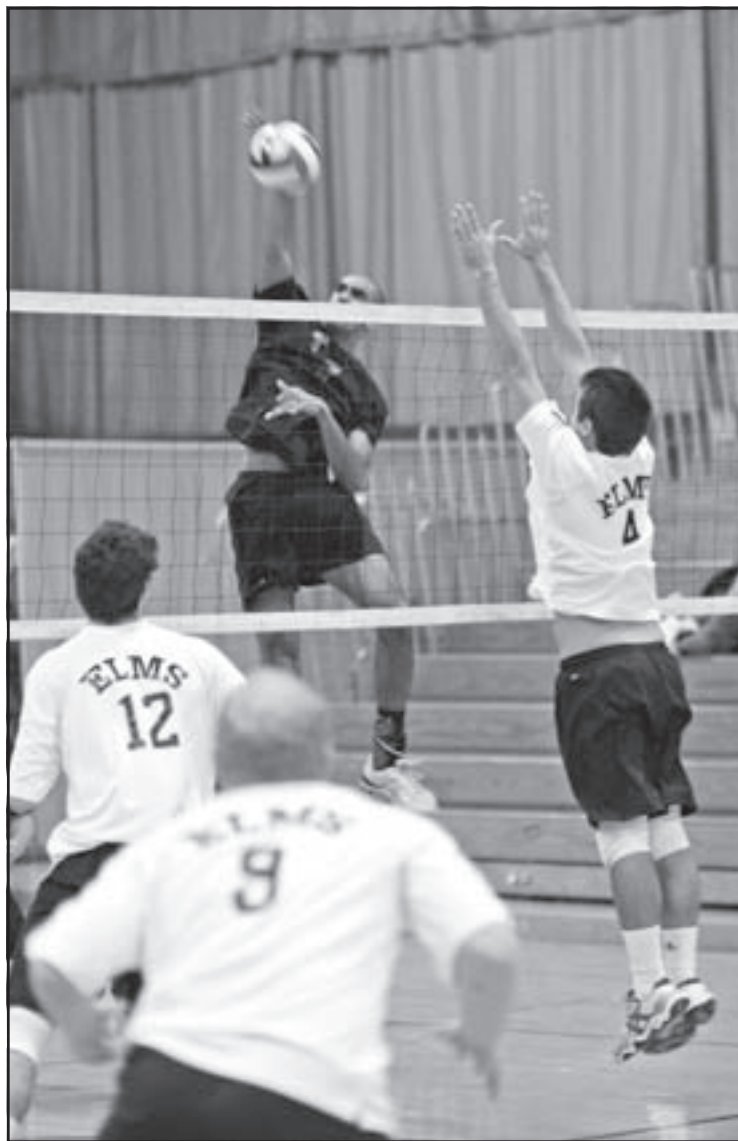
As a team, the Engineers tallied a .455 hitting percentage and 14 blocks.

The Elms' Byron Bledsoe led the Blazers (1-1) with nine kills, nine digs, and two aces as Brian Cunniff registered seven kills and one block. Ivan Andujar collected 24 assists, five digs and one ace.

In MIT's final match, Dean powered the Engineers with 10 kills, eight digs, and four aces. Stephen D. Ray '08 bolstered Tech's offense with a career-high 10 kills. Demyttenaere notched five blocks as Caine L. Jette '10 dished out 39 assists.

Eugene Jang '09 finished with seven digs while Troy V. Tamas '10 earned three aces.

Imad 'El Katrib paced Lesley with 18 digs, six blocks, four kills, and an ace. Boursiquot posted 11



Praveen Pamidimukkala '08 spikes the ball back to the Blazers' side in Saturday's 3-0 win over Elms College. The Engineers later defeated Lesley University also 3-0.

blocks, nine digs, and four kills as Hunt amassed 11 digs. Janer finished with six assists while Wheeler added four blocks for the Lynx.

The Engineers will look to continue their hot start tomorrow night against Emmanuel College at 7:00 p.m. in Rockwell Cage.

MIT Depth Critical Factor In Weekend Pistol Victories Against Merchant Marine

By Mindy Brauer

ASSISTANT DIRECTOR OF SPORTS INFORMATION

MIT posted a pair of victories in a double-dual meet this weekend against the U.S. Merchant Marine Academy.

The Engineers edged out the Mariners 6,263-5,886 on Saturday and 4,346-4,204 on Sunday.

Edward S. Huo '08 captured first place in air pistol with a total of 553, which was followed by a 548 from Joshua Cox of the Mariners. Daipan Lee '07, Diana Nee '07, and Fuzhou Hu '09 finished right behind each other with scores of 546, 545, and 544, respectively. As a team, the Engineers emerged from air pistol with a slim 2,188-2,111 victory.

Cox won the free pistol event with a score of 525, but Tech countered by winning the next four places en route to a 1,967-1,836 decision. Daniel Jang '10 paced Tech with a 509, followed by Daipan Lee's 495, Hu's 494, and Samuel Lee's 469.

In standard pistol, Cox recorded his second victory of the day with a tally of 552. It would not be enough as all four of MIT's scores were above the 500-mark, powering it to a 2,108-1,939 win. Nee paced the Engineers with a total of 542, followed by Daipan Lee (528), Samuel K. Lee '07 (521), and Pravin R. Palaniappan '07 (517).

Since Merchant Marine does not sponsor a women's team, the women

Pistol, Page 19

Thornton, Swimming Defeat Tufts 162-138, Improve Record to 8-1

By Jeff Lemieux

SPORTS INFORMATION ASSISTANT

Katherine C. Thornton '07 won three events and swam to a strong NCAA "B" cut in the 1650-yard freestyle with a time of 17:31.32 to help propel MIT (8-1) to victory over Tufts University (5-3), 162-138, on Saturday afternoon in the Zesiger Pool.

Thornton's impressive 1650 time places her sixth among Div. III swimmers in the country in that event. She also picked up individual victories in both the 1000-yard (10:31.96) and the 500-yard (5:12.16) freestyle events and was part of the winning 400-yard freestyle relay team along with Ashley E. Pinchinat '10, Sasha B. Brophy '08 and senior Stephanie A. Sidelko '07.

Thornton was particularly dominant in the 1000-yard freestyle, winning by more than 30 seconds.

Head coach Dawn Gerken was thrilled with the senior's performance, saying, "Kate Thornton's mile today was a spectacular swim. She has been training incredibly well this year and has the confidence and talent to be a force at the national level."

Diver Doria M. Holbrook '08 won the three-meter diving competition in style by breaking the Institute record for six dives with a score of 349.30. The co-captain is currently ranked No. 1 in Division III for the event.

Jennifer A. Chao '09 led 1-2 finishes for the Engineers in a pair of butterfly events, as she touched the wall ahead of all other swimmers in both the 100-yard (1:02.23) and the 200-yard (2:16.19). Priya Parayanth '10 picked up second-place in the 100-yard (1:02.51), while Nicole M. O'Keefe '09 grabbed the number

two spot in the 200-yard (2:18.69).

Stephanie M. Brown '10 matched Chao's feat, taking first in both the 100-yard (1:03.96) and 200-yard (2:16.98) backstroke events. Parayanth was next in the 100-yard (1:04.72) while Chao was second best in the 200-yard (2:18.62).

Other individual winners for the Cardinal and Gray included Brophy, who won the 200-yard freestyle with a time of 1:58.94, and O'Keefe, whose time of 2:34.00 in the 200-yard breaststroke was good enough to garner maximum points.

MIT's other victory came in the 200-yard medley relay in which the team of Ellie S. Souganidis '10, Parayanth, O'Keefe and Sidelko was quickest with a mark of 1:54.72.

Chloe Young-Hyman was Tufts' top competitor, picking up a trio of victories in the 100-yard breaststroke (1:08.11) and both the 50-yard (25.36) and the 100-yard (54.73) freestyle events.

The Engineers will return to the water on Saturday, Jan. 27, when they travel to Amherst College to take on the Lord Jeffs in a meet that will begin at 1:00 p.m.

Men Suffer First Loss of Season

Craig M. Edwards '07, Deke Hu '09 and Rastislav Racz '10 each picked up a pair of individual victories on Saturday afternoon in the Zesiger Pool, but it wasn't enough for MIT (6-1) to overcome Tufts University (8-1), as the Engineers fell 158-136.

Edwards was dominant in the backstroke events, picking up first-place in both the 100-yard (53.82) and 200-yard (1:57.98), while Hu earned maximum points in the 200-

Aquatics, Page 19

Gymnastics Loses Despite Efforts of Harrison, Zimmerman in Home Meet

By Jeff Lemieux

SPORTS INFORMATION ASSISTANT

The University of Rhode Island's Kelly Gurney won the all-around competition with a score of 38.075 to lead the Div. I Rams to victory over MIT at Tech gymnastics' home opening quad-meet on Saturday afternoon in the duPont gymnasium.

The Engineers scored 177.325 and placed last, well behind URI (184.500) but close to Cortland State University (179.325) and the University of Wisconsin-Whitewater (178.625).

Tech's Julia C. Zimmerman '09 finished with the second best all-around score (37.600) for the second straight meet, while teammate Sophia L. Harrison '08 (36.200) was fourth, making the Engineers the only squad in the competition to have two team members gracing the top-five in the all-around.

The Cardinal and Gray began the day by sticking all six of its vaults, which head coach Jen Miller-McEachern called "a huge accomplishment this early in the year." Laura E. Kelly '09 impressed by notching an 8.925 with a brand new vault, while Zimmerman (9.300) and Katie M. Mingo '10 (9.000) were MIT's top scorers in the event.

Bars were next, and for the first time this season, the Engineers were able to put up six competitors. The extra routine made all the difference, as Tech had what Miller-McEachern referred to as "the best team performance of the year." Zimmerman contributed a solid 9.250, while Har-



Sophia L. Harrison '08 executes a graceful backflip during her beam routine during the MIT Women's Gymnastics meet on Saturday.

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UPCOMING HOME EVENTS

Thursday, January 25

Men's Volleyball vs. Emmanuel 7:00 p.m., Rockwell Cage

Friday, January 26

Women's Hockey vs. Plymouth State 7:00 p.m., Johnson Ice Arena

Saturday, January 27

Rifle, Bean Pot 9:00 a.m., duPont Athletic Center

Women's Basketball vs. Wheaton 1:00 p.m., Rockwell Cage

Squash vs. Fordham 2:00 p.m., Zesiger Center

Men's Basketball vs. Newbury 3:00 p.m., Rockwell Cage

Women's Hockey vs. Plymouth State 3:00 p.m., Johnson Ice Arena

Men's Hockey vs. Springfield 7:00 p.m., Johnson Ice Arena

Sunday, January 28

Rifle, Bean Pot 9:00 a.m., duPont Athletic Center