

MIT's
Oldest and Largest
Newspaper



The Weather
Today: Clouds, breezy, 77°F (25°C)
Tonight: Rainy, windy, 65°F (18°C)
Tomorrow: Rain, windy, 69°F (21°C)
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Volume 125, Number 45

Cambridge, Massachusetts 02139

Friday, October 7, 2005

Karl Reid Takes Over As Head Of OME

By Laura Nicholson

Karl W. Reid '84 recently took office as the new director of the Office of Minority Education, a position now endowed with influence beyond the Institute's undergraduates. Appointed by Chancellor Phillip L. Clay PhD '75 and Dean of Undergraduate Education Robert P. Redwine, Reid said he intends to analyze current patterns in minority populations at MIT to develop new diversity programs involving graduate students as well as undergraduates.

Reid, previously director of the Minority Introduction to Engineering and Science Program (MITES), replaces interim OME director Kim R. Beamon. Reid also now holds the positions of assistant to the chancellor and associate dean for undergraduate education.

The position of OME director was

Reid, Page 12

Schrock Wins Nobel Prize in Chemistry

By Kirtina Raja

A childhood filled with explosions and dangerous chemicals might sound like a recipe for disaster, but it led Professor Richard R. Schrock to pursue a career in chemistry that reached a high point Wednesday when he was named recipient of the Nobel Prize in Chemistry.

Schrock shares the prize with Yves Chauvin of the Institut Français du Pétrole and Robert H. Grubbs of the California Institute of Technology for the explanation and improvement of the metathesis process in organic chemistry, now used in the pharmaceutical and plastics industries. Schrock, who has been at MIT for 30 years, was the first to synthesize an efficient metal-compound catalyst for metathesis, work he did while at the Institute.

The announcement makes Schrock the fourth MIT science professor to win a Nobel Prize since 2001.

Schrock said the call from the Nobel Committee at 5:30 a.m. was a surprise. "You don't expect these things. Winning the Nobel Prize is a privilege and not a right," he said.

When Schrock called his 92-year-old mother to tell her the news, "She said, 'You won a what?'" because "she's a little hard of hearing. Then I



RAY C. HE—THE TECH

Professor Richard R. Schrock shares an anecdote about his early experiences with chemistry sets. This past Wednesday, Oct. 5, Schrock gave a lecture on the research that led to his 2005 Nobel Prize in Chemistry.

yelled into the phone: 'Nobel Prize! You've heard of that,' and she started screaming. I think she got the point," Schrock said.

According to Schrock's wife, Nancy F. Carlson, the couple was

physically shaking after hearing the news. "I called my son in California and woke him up and then called my other son in Florida and woke him up to let them know that their father had won," she said.

Schrock discussed his prize-winning research at a press conference held Wednesday morning and a packed Nobel lecture in 10-250 that

Schrock, Page 12

Solar Electric Vehicle Team Places Sixth In 1,800-Mile World Solar Challenge Race

By Angeline Wang
STAFF REPORTER

MIT's Solar Electric Vehicle Team finished the 2005 World Solar Challenge in sixth place out of 22 teams despite racing with a damaged car. The MIT team covered 1,800 miles in 40 hours.

The biennial competition began on Sept. 25 in Darwin, Australia and

led teams across the country. A team from the Netherlands won this year's race; the top U.S. finisher was the third place University of Michigan team.

The SEVT car, Tesseract, was damaged during a qualifying lap when one of the drivers took a hard turn, said Chris R. Pentacoff '06, the team's main driver. The car flipped

and slid, resulting in the loss of about 40 percent of Tesseract's solar array and damage to the body. This left the car with 1,000 Watts of power, still average for cars in the race.

"The first few minutes after the accident were tense," said team member Anna S. Jaffe '08. "Once

Solar Car, Page 14

Ig Nobels Honor Amusing, Yet Educational Research

By Daniela Cako

Last night at the Sanders Theatre at Harvard, the 15th First Annual Ig Nobel prizes were distributed to 10 curious and motivated people for their almost inconceivable research. Unlike the Nobel Prize, the Ig Nobels, created by Harvard alumnus Marc Abrahams, recognize those whose research "first makes people LAUGH, then makes them THINK."

The ceremony began with the first paper airplane thrown on stage at 7:10, which was followed by the traditional welcome speech, literally transcribed as "Welcome, welcome." The theme of the night was infinity, with the word repeated a seemingly infinite number of times. The theme was represented in the prizes made

Ig Nobel, Page 15



RAY C. HE—THE TECH

Elephants in town for the Ringling Brothers and Barnum and Bailey's "The Greatest Show on Earth" parade down Massachusetts Avenue past Building 7 on the way to the Bank of America Center. The elephants make this voyage from the train station annually.

Donald Harleman

MIT NEWS OFFICE

Donald R. F. Harleman, a renowned civil engineer whose love for the ocean and expertise in water quality and waste treatment benefited urban harbors throughout the world, died of cancer on Sept. 28 on Nantucket, Mass. He was 82.

A memorial service for Harleman will be held at the MIT Chapel on Nov. 5 at 1 p.m.

Harleman was an engineer, scientist and educator, recognized nationally and internationally, whose research and innovations were directed toward improving water quality and making wastewater treatment available and affordable to all.

He was a global leader in advancing the case for technologies like chemically enhanced primary treatment (CEPT) as an alternative to expensive biologically based systems commonly used in the United States.

Harleman advocated strongly for implementing CEPT technology as part of the Boston Harbor cleanup. Although it was not adopted in Boston, CEPT became the wastewater treatment technology of choice in a number of developing countries, thanks to his efforts.

Harleman, a native of Palmerton, Pa., was a longtime resident of Nantucket and Lexington, Mass. A specialist in hydraulics, he came

Harleman, Page 13

Monday, Oct. 10 — Columbus Day
Tuesday, Oct. 11 — Student Holiday

The Tech will not publish on Tuesday, Oct. 11. Regular publication will resume on Friday, Oct. 14.



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News

A college education doesn't provide the same financial advantages as four years ago.

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WORLD & NATION

Bali Bomb Suspects Are Said To Have No Prior Link to Terrorism

By Raymond Bonner

THE NEW YORK TIMES

JAKARTA, INDONESIA

Indonesia's counterterrorism forces say the suspected suicide bombers who carried out the attack in Bali last Saturday appear to have been a small group with no prior criminal record or link to a large organization like al-Qaida, giving the case echoes of the London subway bombings in July.

A senior Indonesian counterterrorism official said in an interview on Thursday that the bombers seem to have been "jihadists" without previous involvement in terrorist acts that would have brought them to the attention of the authorities.

A former senior member of Jemaah Islamiyah, the radical Islamic organization here, who has defected and is helping the government, said he did not recognize any of the men, the official said. The heads of the presumed bombers were severed in the blast, and pictures of them have appeared on television and in the newspapers here. The official spoke on condition that he not be identified, because he is not the authorized spokesman for his agency.

The Bali attack, which killed 19 people, most of them Indonesians, in separate explosions at three restaurants, seems indicative of the way in which terrorism is shifting, terrorism experts say.

Rove Summoned to Testify In CIA Leak Case

By David Johnston

THE NEW YORK TIMES

WASHINGTON

The special prosecutor in the CIA leak case has summoned Karl Rove, the senior White House adviser, to return next week to testify to a federal grand jury in a step that could mean charges will be filed, lawyers on the case said Thursday.

The prosecutor, Patrick J. Fitzgerald, has held discussions in recent days with lawyers for several Bush administration officials, suggesting that he is considering whether to charge them with a crime over the disclosure of an intelligence operative's identity in a 2003 newspaper column.

Fitzgerald is said by some of the lawyers to have indicated that he has not made up his mind about whether to accuse anyone of wrongdoing and will use the remaining days before the grand jury expires on Oct. 28 to decide.

Rove has appeared before the grand jury on three previous occasions.

Bombing on Minibus Kills 10, Including Police Recruits

By Robert F. Worth

THE NEW YORK TIMES

BAGHDAD, IRAQ

A man wearing an explosive belt boarded a public minibus on Thursday near Iraq's police academy in northern Baghdad and blew himself up, killing 10 passengers and wounding 11, witnesses and Iraqi officials said.

The blast shattered the red minibus, killing almost everyone on board and sending huge plumes of black smoke into the sky near the police academy and Iraq's Oil Ministry. The victims included police recruits, but also a woman and some children, said Capt. Muhammad Ali, a police officer who arrived at the scene shortly afterward.

Witnesses said the bomber boarded the bus just after 1 p.m. at a stop near the police academy, on a bus route often used by recruits on their way home to Sadr City, the Shiite slum that is not far away. After the attack, the blackened shell of the bus remained on the street, surrounded by fragments of metal and human remains.

The attack came a day after a huge bomb outside a Shiite mosque killed 25 people in Hillah, south of the capital, as Shiites began celebrating the holy month of Ramadan.

White House Works to Quell Attacks From Right on Miers

By Elisabeth Bumiller

THE NEW YORK TIMES

WASHINGTON

The White House moved to contain a continuing revolt among conservatives on Thursday over President Bush's selection of Harriet E. Miers for the Supreme Court. Some conservatives said that Miers could withdraw, and White House officials countered that the idea was preposterous.

The White House aides said they were now focusing their efforts on the Senate floor. "There's frustration because people don't know Harriet and they have all these questions," said Ed Gillespie, the former Republican Party chairman, who is helping shepherd Miers through her Senate hearings and who was pummeled by angry conservatives at a meeting earlier this week.

Republicans said that White House officials had not anticipated the intensity of the criticism and that conservative groups felt they had not been given adequate warning that Miers was the president's pick.

"There might have been more comfort with her if she'd been discussed earlier," said Grover G.

Norquist, an influential conservative. He spoke to reporters in the Eisenhower Executive Office Building shortly after Bush addressed a gathering of conservatives at a tribute to William F. Buckley Jr. on the 50th anniversary of the founding of his magazine, National Review.

As Miers continued her meetings with senators on Capitol Hill, the administration stepped up its campaign to try to win her confirmation. The White House official in charge of reaching out to conservatives, Tim Goeglein, organized a conference call on Thursday afternoon to more than 500 conservatives, many of them dubious about the president's selection, who listened to endorsements of Miers from some of the president's closest allies on the right.

Among those extolling Miers' conservative credentials were Ken Mehlman, the chairman of the Republican National Committee; James C. Dobson, an evangelical conservative and the founder of the group Focus on the Family; Charles W. Colson, the founder and chairman of Prison Fellowship Ministries; Richard Land of the Southern

Baptist Convention; Jay Sekulow of the evangelical American Center for Law and Justice; and Leonard A. Leo of the Federalist Society.

Colson urged conservatives to pull together because, he said, "it doesn't matter if she walked across the Potomac," the Democrats would still "demand their pound of flesh."

Dobson, acknowledging the deep divisions among social conservatives, said he believed the president had been a consistent opponent of abortion. "This is his personal belief and philosophy and I think probably theology, and I appreciate that," he said. "I believe he has appointed a woman who is consistent with that."

At his daily press briefing, Scott McClellan, the White House press secretary, announced that Daniel R. Coats, a former Republican senator from Indiana and the former U.S. ambassador to Germany, would serve as a "public advocate" for Miers and accompany her on her meetings with senators, much as former Sen. Fred Thompson did for Chief Justice John G. Roberts Jr. Republicans said Coats was chosen in part because he has strong ties to both parties.

Terror Threat to Transit System Leads New York to Up Security

By William K. Rashbaum

THE NEW YORK TIMES

NEW YORK

Security in and around New York City's subways was sharply increased Thursday after city officials said they were notified by federal authorities in Washington of a terrorist threat that, for the first time, specifically named the city's transit system.

The measures were announced by Mayor Michael R. Bloomberg, along with Police Commissioner Raymond W. Kelly and the head of the New York FBI office, Mark J. Mershon, after a joint operation by the FBI and CIA in Iraq on Thursday aimed at disrupting the threat, according to law enforcement officials.

The officials, who spoke on the condition of anonymity, said the operation ended with two people in

custody. They said a third was being sought.

Some officials in Washington, in interviews Thursday night, played down the nature of the threat to some extent. While not dismissing the threat, a spokesman for the Department of Homeland Security described it as "specific yet noncredible" and an anti-terrorism official stressed that the details could not be verified.

Information about the threat, the officials said, came to light last weekend from an intelligence source who told federal authorities that the three men in Iraq had planned to meet with other operatives in New York. One official said the group would number roughly a dozen; another official said the total was closer to 20.

The men planned to use baby strollers, briefcases and packages

to hide a number of bombs that they planned to detonate on the subways. "It was a conspiracy involving more than a dozen people aimed at delivering a number of devices into the subway," one of the officials said.

One official said the information suggested an attack could happen as early as Friday; another pointed to the middle of the month.

"This is a piece of information that came in as a result of operations that go on all the time and to corroborate that information or not we had to go after certain people," one official said.

Speaking at an evening news conference, Bloomberg tried to inform New Yorkers without alarming them. He said that while the threat was not corroborated, it was specific enough to warrant an immediate and overwhelming response.

WEATHER

Reality Check

By Brian H. Tang

STAFF METEOROLOGIST

This past week's weather has been nothing short of spectacular. However, if you wait around long enough, you'll be reminded by Mother Nature you do indeed live in New England. Unfortunately, her reminder has to come this weekend. A strong cold front that produced a snowstorm in the N. Plains will approach the area late Friday. While we won't get any snow, the combination of the remnant moisture from Tropical Storm Tammy and the strong contrast of air masses will yield a heavy rain event beginning Friday night, lasting most of Saturday, and even perhaps into Sunday. The front's progression may be halted by a strong high pressure center to the north and west, so we could be in for an extended period of wetness lasting well into next week as waves of low pressure ride up along the front. In fact, over the next five days, we could see over five inches of rain!

As an aside, there are three disturbances in the Atlantic that have the potential to become tropical depressions and eventually named tropical storms.

There are only two names left on the list: Vince and Wilma. Will we run out of names? The odds look good right now.

Extended Forecast:

Today: Increasing clouds and becoming breezy. High 77°F (25°C).

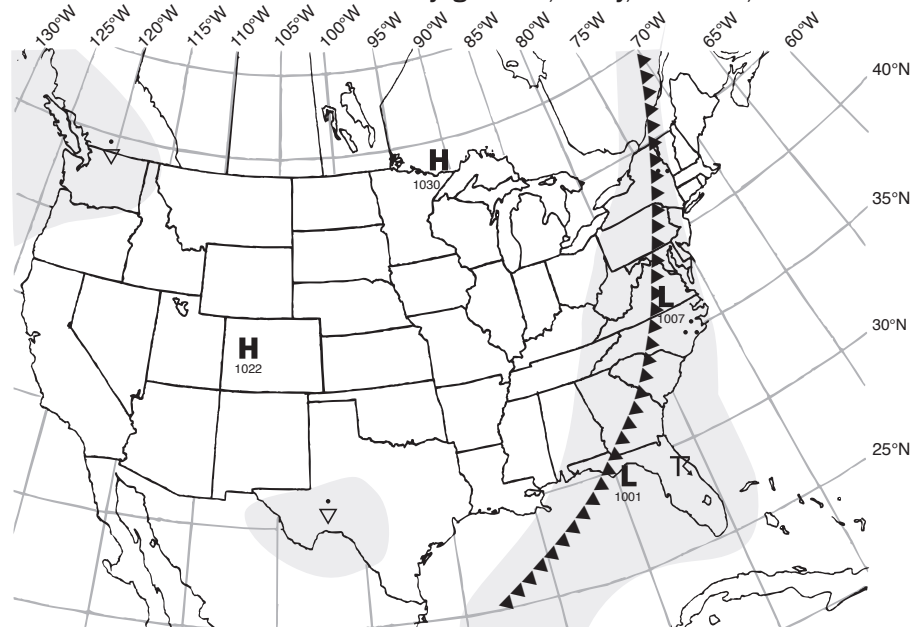
Tonight: Rainy and windy. Low 65°F (18°C).

Saturday: Rain, possibly heavy at times. Windy. High 69°F (21°C).

Sunday: Showers. Breezy and cool. High 56°F (13°C). Low 46°F (8°C).

Monday: A chance of showers. Breezy and cool. High 58°F (14°C). Low 45°F (7°C).

Situation for Noon Eastern Daylight Time, Friday, October 7, 2005



| Weather Systems | Weather Fronts | Precipitation Symbols | Other Symbols |
|-----------------|----------------------|-----------------------|--|
| H High Pressure | - - - Trough | Snow * | Fog |
| L Low Pressure | —••• Warm Front | Light *• | Thunderstorm |
| § Hurricane | ▲▲▲ Cold Front | Moderate **•• | Haze |
| | ▲▲▲ Stationary Front | Heavy ***••• | Compiled by MIT Meteorology Staff and The Tech |

U.S. Weighs Spending Billions For Stockpile of Anti-Flu Pills

By Gardiner Harris
THE NEW YORK TIMES

As concern about a flu pandemic sweeps official Washington, Congress and the Bush administration are considering spending billions to buy the anti-influenza drug Tamiflu. But after months of delay, the United States will now have to wait in line to get the pills.

Had the administration placed a large order just a few months ago, Roche, Tamiflu's maker, could have delivered much of the supply by next year, according to sources close to the negotiations in both government and industry. As the months passed, however, countries placed orders that largely exhausted Roche's production capacity this year and next.

Democrats on Capitol Hill are complaining that the delay has put Americans in jeopardy. "The administration has just drug its feet through this whole process," said Sen. Tom Harkin, D-Iowa, who has repeatedly pressed for legislation to buy more courses of Tamiflu. A course includes enough pills for a full treatment.

Sen. Barack Obama, D-Ill., said in an interview that Michael O. Leavitt,

the secretary of health and human services, told senators in a closed-door briefing last week that the administration would soon place an order to raise the government's Tamiflu stockpile to 81 million courses — up from 12 million to 13 million courses expected by the end of 2006. Obama has long been urging the government to buy more Tamiflu.

"Secretary Leavitt admitted that they are currently in negotiations with Roche to try to rapidly build up those stockpiles," Obama said. "But we're behind countries like Great Britain, France and Japan, and it's probably going to cost us a lot more money than it would have to catch up."

In an interview Tuesday, Leavitt said that the government would buy more Tamiflu although he did not specify how much.

"But it's not a surrogate for preparation," he said. "It's like saying that if we could get everyone in America to wear seat belts, we would solve auto accidents. It's part of a comprehensive solution."

Christina Pearson, a spokeswoman for Leavitt, said she could not

confirm whether the Bush administration had a new goal of buying the 81 million courses.

Leavitt said the Bush administration planned to prepare for a possible influenza pandemic by strengthening both international and domestic disease surveillance programs, buying drugs like Tamiflu and investing in research to develop alternative methods of making flu vaccines.

Preparing the vaccines usually takes nine months and involves the eggs of thousands of chickens. Because chickens themselves could be wiped out in a pandemic, the present system of manufacturing vaccines is highly vulnerable.

Introduced in 1999, Tamiflu for years had disappointing sales and received little attention. But just as Bayer's antibiotic Cipro became popular in the wake of the 2001 anthrax attacks, Tamiflu has become the drug of choice for those worried about pandemic flu because it is one of the only medicines that has proved it can reduce the duration and severity of the potentially deadly disease if taken within 48 hours of infection.

Brazil Considers Trade Sanctions Against U.S.

By Joel Brinkley

THE NEW YORK TIMES

BRASILIA, BRAZIL

As Robert Zoellick, the deputy secretary of state, arrived here Thursday for a goodwill visit, Brazil asked the World Trade Organization for the right to impose trade sanctions against the United States for just over \$1 billion because of a longstanding argument over cotton subsidies.

Both countries chose to portray the timing as coincidental, but the dispute forced Zoellick to react to the sanctions request in some of his meetings here. He offered strong views and thinly veiled threats.

Zoellick, who was the U.S. trade representative before taking his present job early this year, warned that Brazil ought to think carefully about requesting sanctions, suggesting that they could incite a trade war.

"Frankly I think retaliation is counterproductive," he said in a meeting with Brazilian journalists Thursday afternoon.

Later, during a news conference, he suggested that Washington could choose to eliminate trade preferences that allow Brazil to ship more than \$2 billion in goods to the United States duty free, adding: "When one side retaliates, who knows what the other side will do?"

Secretary of State Condoleezza Rice, who visited here last spring, and other senior administration officials have worked hard in recent months to portray relations with Brazil as uniformly warm, friendly and improving. But even without the trade sanctions dispute, Zoellick's meetings here Thursday provided a view of a darker underbelly.

Army's Plan for Growth Is Adequate, Secretary Says

By Thom Shanker

THE NEW YORK TIMES

WASHINGTON

The Army can sustain current troop levels in Iraq and Afghanistan, even as it builds additional combat brigades, without personnel increases beyond the 30,000 already approved by Congress, the service's senior civilian said Thursday.

The senior civilian, Francis J. Harvey, the Army secretary, said in an interview with a small group of reporters that the number of active-duty personnel is scheduled to peak at 512,400 in 2007 before dropping back to 482,400 from 2008 to 2011. The number of people within the "operational" part of the Army — troops who can deploy to plan, command and carry out missions — will grow to 355,000 by 2007, from 315,000 in 2004, he said.

The increase in troops assigned to combat, combat service and combat support jobs will be found through a variety of new personnel policies, including trimming the institutional and administrative branches of the service to 75,000 people from 2008 to 2011, from 104,000 in 2004.

Harvey also described plans to reduce the number of people assigned at any one time to training slots to 52,400 by 2011 from 63,400 in 2004.

Harvey emphasized that these projections include a number of caveats, the most important being that the Army is not assigned any significant new missions beyond those it is carrying today.

New Spy Case Revives Concerns Over Security at FBI

By Eric Lichtblau and Ronald Smothers

THE NEW YORK TIMES

WASHINGTON

The widening investigation into an FBI analyst suspected of passing intelligence to the Philippines is raising new concerns about the bureau's vulnerabilities in protecting its secrets from internal espionage.

After the Robert Hanssen spy scandal in 2001, the FBI undertook a major overhaul of its internal security to prevent employees from pilfering secret records. Among the measures was the increased use of internal computer audits to spot employees like Hanssen who might be reading records they had no reason to review.

But Leandro Aragoncillo, hired last year as an analyst for the bureau at Fort Monmouth in Eatontown, N.J., appears to have done just that for months without being noticed, officials say. Aragoncillo is accused of combing the computer system to print or download improperly 101 classified documents on the Philippines, including 37 marked "secret," and passing the information to Manila in his native country.

Investigators for the FBI say they suspect that he may have also improperly gained access to classified material when he worked at the White House as a Marine aide to the vice president's office under Dick Cheney and Al Gore.

Officials said that Aragoncillo was cooperating in the investigation and that he might seek a plea bargain. His lawyer declined to comment.

Democrats Are Advised To Broaden Appeal

By Robin Toner

THE NEW YORK TIMES

WASHINGTON

Reigniting an intense debate within the Democratic Party, a new analysis argues that Democrats cannot return to power by energizing liberals alone, but must rebuild their credibility on foreign policy and values issues and stem their losses among swing voters, notably married women and Roman Catholics.

The report, released on Thursday and prepared for the Third Way, a political and policy group for centrist Democrats, contends that the party must free itself of several myths left over from the 2000 and 2004 elections, especially the idea that the way to win in a polarized era is to do much better at mobilizing the party's political base. The authors argue that this strategy is doomed to fail for the Democrats because there are simply more voters who identify themselves as conservatives than as liberals.

In a consistent trend since the mid-1970s, about a fifth of the voters say they are liberals, about a third conservatives and about 45 percent moderates.

Republicans in Congress Propose Budget Cuts to Fund Storm Relief

By Carl Hulse

THE NEW YORK TIMES

WASHINGTON

Jettisoning earlier reservations, congressional Republican leaders say they intend to cut spending to pay for hurricane relief along the Gulf Coast, setting up a major confrontation over what programs to pick and how deep the reductions.

Rep. Jim Nussle, R-Iowa, chairman of the House Budget Committee, called on Thursday for across-the-board spending cuts and urged lawmakers to increase the savings Republicans hope to gain from a budget bill this fall to a minimum of \$50 billion, from \$35 billion.

"We'd better get started, and we'd better do it now," Nussle said.

Senate Republican leaders have joined in, directing their committee chairmen to find more than \$35 billion in savings while establishing a task force to identify ways to pay for the back-to-back hurricanes.

"Congress needs to make tough choices to ensure that the federal response to these disasters is responsible," the full Senate majority leadership said in a letter to the chairmen.

It is a marked change in tone from the days immediately after Hurricane Katrina, when Congress rushed through more than \$60 billion in aid and Republican leaders were lukewarm to the idea of spending cuts to compensate. But Sen. Judd Gregg, R-N.H., chairman of the Senate Budget Committee, said the mood had shifted when lawmakers focused on the monumental costs.

President Bush also contributed to the push for cuts when he told reporters this week that "Congress needs to pay for as much of the hurricane relief as possible by cutting spending," and promised to work with lawmakers to identify ways to save.

But getting behind the idea of cuts is much easier than enacting them. Democrats and some Republicans are certain to oppose many of the ideas, particularly those that would scale back spending on programs for the poor, among the hardest hit by the storm. The difficulty was illustrated Thursday when the Senate Agriculture Committee was forced to cancel a session to consider \$3 billion in cuts — including \$574 million for food stamps — after disagreements

erupted.

"As usual, the prime targets are the poor and others who rely on federal programs for their health, education, disability, agriculture, and veterans' benefits," said Sen. Tom Harkin, D-Iowa, the senior Democrat on the Agriculture Committee.

At the same time, lawmakers from Louisiana and elsewhere continue to clamor for more relief.

On Thursday night, as part of a package of bills, the House approved \$500 million in aid to Hurricane Katrina victims. The aid, which would help states pay unemployment benefits to storm victims, would be financed by stopping federal payments for impotence drugs.

Sen. Charles E. Grassley, R-Iowa, chairman of the Finance Committee, assailed the White House at a hearing on Thursday with Treasury Secretary John W. Snow. Grassley accused the administration of trying to scuttle his plan to extend federal Medicaid benefits to hurricane victims whose incomes are at poverty level and to have the federal government pick up the full cost of those benefits for the next five months.

HPV Vaccine Found Effective, Raising Hopes for Preventing Cervical Cancer

By Denise Grady

THE NEW YORK TIMES

An experimental vaccine has proved highly effective at preventing cervical cancer in a two-year study involving more than 12,000 women, researchers reported Thursday.

The vaccine works by making people immune to two types of a sexually transmitted virus that causes most cases of the disease. It is the first successful vaccine ever developed specifically to prevent cancer.

The vaccine, Gardasil, is made by Merck & Co., which plans to apply for approval to the Food and Drug Administration before the end of this year and, if the vaccine is approved, to market it in 2006.

If widely used, the vaccine could save many lives. Worldwide, there are about 500,000 new cases of cervical cancer a year, and 290,000 deaths. Most of the cases and most of the deaths occur in poorer countries where women do not have regular Pap tests, which can detect cancers or precancerous cells early enough for them to be cured. In the United States, where Pap tests are common, 10,400

new cases are expected in 2005, and 3,700 deaths.

"The potential, particularly in the undeveloped world, particularly if they can overcome the logistics and get the vaccine to those women, could be enormous," said Dr. Deborah Saslow, director of breast and gynecological cancer at the American Cancer Society. The vaccine could prevent at least 70 percent of the deaths from cervical cancer, she added.

But Dr. Allan Hildesheim, an epidemiologist at the National Cancer Institute, cautioned that even if women are vaccinated they will still have to be screened regularly for cervical cancer, because the vaccine does not prevent all cases of the disease.

"This is not a panacea," Hildesheim said.

The vaccination will require three shots over six months. Merck has not yet said what it will cost.

The ideal time to vaccinate girls is before they become sexually active and risk being exposed to one of the cancer-causing viruses, said Dr. Eliav Barr, a research director at Merck. Once cancer develops, it is too late for

the vaccine to help. The median age at which people first have sex in the United States is 15.

It is not known yet how long the protection from the vaccine will last, or whether booster shots will be necessary, Barr said.

The vaccine works against viruses that belong to a group called human papillomaviruses, or HPV. Nearly every case of cervical cancer is caused by HPV. The viruses are sexually transmitted, extremely common and almost impossible to avoid. At least half the adults in the United States have been infected.

More than 30 types of HPV infect the human genital area. Only some types cause cancer; others cause genital warts. A type known as HPV-16 causes 50 percent of cervical cancers, and HPV-18 causes 20 percent. Other types cause the rest. But even the cancer-causing types are harmless in most people because their immune systems fight them off.

The virus persists in some women, however, causing abnormal growths on the cervix. Most of the growths go away, but some turn cancerous.

OPINION



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From the Editor

Today's *Tech* brings two changes in our Fun section: the introduction of the puzzle Sudoku and the return of the comic Dilbert.

Sudoku, a fun logic puzzle, has debuted in recent months in many newspapers worldwide to rave reviews. Its immense popularity has led to the publication of numerous Sudoku puzzle books, some presented by the inimitable Will Shortz, crossword editor for *The New York Times*. To solve a Sudoku puzzle, a player must correctly fill in the squares of a nine by nine grid such that each row, each column, and each of nine three by three subgrids contain the numbers one through nine. We hope you'll enjoy this new challenge!

Today's issue also marks the return

of Dilbert, missing in these pages since Sept. 16 because we failed to immediately renew our expired contract. We're happy to once again carry this icon of the working world drawn by Scott Adams.

Finally, we would like to encourage further feedback from our readers on any aspect of the paper. Letters for

publication can be sent to letters@tt.mit.edu; feedback regarding news coverage should be sent to news@tt.mit.edu, which reaches our news editors. Other comments may be directed to The Tech's Executive Board at general@tt.mit.edu.

Kelley Rivoire
Editor in Chief

Letters To The Editor

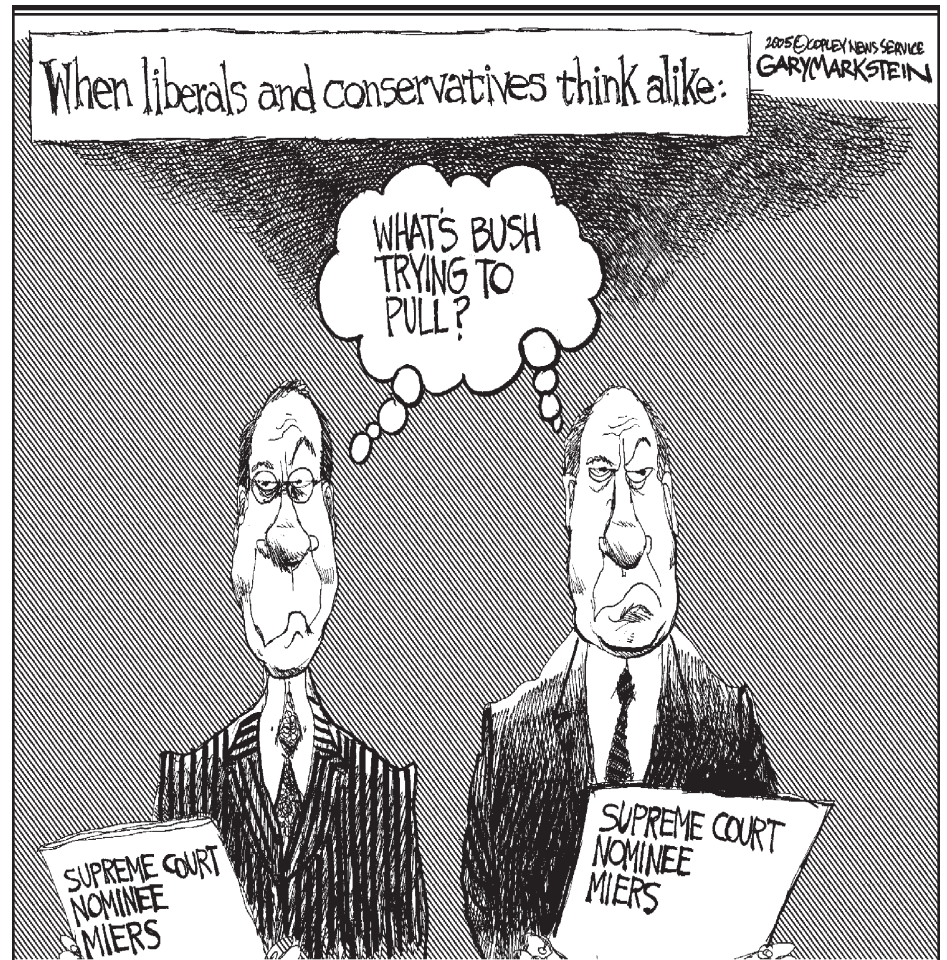
Abortion and Science

The debate over how to appropriately balance faith, philosophy, and science in the public sphere will continue to grow as we move further into the 21st century. Whether the argument concerns teaching Intelligent Design, funding embryonic stem cell research, human cloning, or other controversial issues, it seems many scientists gravitate away from the side expressing the strongest religious sentiments.

The apparent dichotomies between scientists and religionists are often illusionary, however. This crossed my mind in particular at the annual Respect Life Walk on the Boston Common last Sunday. As I stood on the grass and listened to the speakers, my gaze often drifted to the face of my seven-month-old son, and I smiled as I realized how incredibly similar his profile was to an ultrasound picture of him a year ago. The blob of tissue argument that powered the Pro-Choice movement for a number of years has all but disappeared as ever-increasing scientific advances allow us to view the unborn child in utero.

Embryology texts unanimously agree that the process of fertilization leads to a new, individual human life. I consequently find it frustrating to deal with scientists, even at MIT, who try to concoct two-bit philosophical arguments to dismiss the significance of fertilization by viewing life as a continuum. Others effectively view the birth canal as a magical tunnel that somehow bestows legal and ethical rights to children lucky enough to pass through it. Ironically, Pro-Choice arguments are desperately turning more philosophical and ethereal in the face of cold, hard biological facts; scientific advances are ensuring that these facts can no longer be ignored. There is no doubt that the Pro-Life movement has the scientific upper ground, no matter how many scientists refuse to admit it. After glancing up from my son's face for perhaps the hundredth time, I noticed the march was finally underway. To some, this was about religion; to others, it was about science. To me, it was about truth, wherever it was to be found. A large banner of Our Lady of Guadalupe was beginning to file silently past the raucous protesters. I got up and followed.

Adam Nolte G



"We'd better launder this before contributing it to Tom DeLay's legal defense fund."

Opinion Policy

Editorials are the official opinion of *The Tech*. They are written by the editorial board, which consists of the chairman, editor in chief, managing editor, opinion editors, a senior editor, and an opinion staffer.

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

Letters to the editor, columns, and editorial cartoons are written by individuals and represent the opinion of the author, not necessarily that of the newspaper. Electronic submissions are encouraged and should be sent to letters@the-tech.mit.edu. Hard copy submissions should be addressed to *The Tech*, P.O. Box 397029, Cambridge, Mass. 02139-7029, or sent by interdepartmental mail to Room W20-483. All submissions are due by 4:30 p.m. two days before the date of publication.

Letters, columns, and cartoons must bear the authors' signatures, addresses, and phone numbers. Unsigned letters will not be accepted.

The Tech reserves the right to edit or condense letters; shorter letters will be given higher priority. Once submitted, all letters become property of *The Tech*, and will not be returned. *The Tech* makes no commitment to publish all the letters received.

Guest columns are opinion articles submitted by members of the MIT or local community and have the author's name in italics. Columns without italics are written by *Tech* staff.

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ARTS

DANCE REVIEW

*The Art and Tradition of Indian Classical Dance**MIT Natya Conveys Religion, Philosophy, and Mythology in Kresge Little Performance*

By W. Victoria Lee

STAFF WRITER

Natyanjali: an evening of classical dance
 MIT Natya
 Kresge Little Theater
 Sept. 30, 2005

The art world today is dominated by western or westernized art forms. When someone mentions a dance recital, ballet or tap immediately comes to mind. While contemporary choreography is infused with moves from various world cultures, the traditional dances of different cultures still have limited exposure outside their own spheres. Fortunately at MIT, where cultural diversity is emphasized, traditional performing arts of different cultures are never overlooked. We have had Senegalese drumming, Chinese lion dancing, Argentine tangoing, among others. Most recently, we had Natyanjali, an evening of Indian classical dance performances in Kresge Little Theater.

Natyanjali is an annual dance performance organized by MIT Natya. Formed in 1999, the group has been active on campus, putting on numerous shows and presentations. MIT Natya's first event of the academic year, Natyanjali 2005, again proved the group's exquisite performance and dedication to increasing awareness of Indian classical dance on campus.

Classical Indian dance is one of the world's oldest dance traditions. Embodying religion, philosophy, and mythology, the classical dances of India offer otherworldly beauty and a spiritual, and sometimes humorous, experience for the audience. Among the seven distinct dance



MIT Natya performed classical Indian dances for Natyanjali 2005, held on last Friday, Sept. 30 in Kresge Little Theater.

styles, three were exhibited in this year's Natyanjali. Nine pieces were performed by eight dancers — each piece with its own mood and theme, each performer with his style.

A slower paced and reverential piece, "Mangalacharan," performed by Namrata Verma '08, kicked off the recital, suitably setting the invocative tone for an auspicious beginning. The rhythm and melody became livelier as the show continued. Sravanti Kusuma '08 delivered a festive piece dedicated to the elephant-headed Hindu deity Ganesha that had intricate footwork alternating between fast and slow steps. Kusuma's singing and her red costume further enhanced the celebratory mood of the piece.

Before the intermission, the audience was treated with the only duet of the evening, "Jathiswaram," performed by Shashank M. Sundareshan '08 and Priyanka M. Sundareshan '06. As the only male dancer, Shashank Sundareshan brought to stage a dynamic performance with his sister. The synchronization of the two dancers was almost perfect, and each move was exquisitely executed.

The performance following the intermission increasingly focused on the facial expressions, or abhinaya, of the dancers. In "Adhuvum Soluvaal,"

Krithika Sridharan brought the story of a jealous heroine to life with her vivid facial portrayal of contempt, taunting, and playfulness. Harini Rajaraman '07 elegantly executed a graceful dance of the peacock in praise of Lord Shanmukha. Most notable were her hand gestures that mimicked the silhouettes of a peacock and her step sequences that opened the pleats of her costume like a bird displaying its gorgeous feathers.

Priyanka Sundareshan made her second appearance in a solo dance depicting Lord Shiva, who dances lifting his left foot. The pieces required the dancer to hold numerous positions with the left foot lifted, and Sundareshan ac-

complished the balancing acts with graceful ease.

The most memorable part of the performance was the bells worn by all dancers. With their bare feet beating along with the music against the stage, the rhythm and melody became more tactile to the audience. Accompanied by their colorful costumes and adornments, the dancers themselves against the black background were moving works of art. Although the music featured singing in the Indian languages and could not be easily understood, the mood of each piece was successfully conveyed through the dancers' movements. The unusual melody brought a breath of fresh air to minds so accustomed to the modern tune.

While the performance was nearly flawless, the venue left something to be desired. The space and audio limitations posed by the Kresge Little Theater failed to enhance the visual and aural quality of an already exquisite performance. While the audience sitting close to the stage had a clear view, the broader gesture of the dance sequence could be better experienced from a greater distance. Most of all, the spiritual quality of the music was lost in the small theater because almost no reverberation could occur. Nonetheless, MIT Natya put on a wonderful show that not only entertained but also educated the public about Indian classical dance. Although their next show has not been announced, it is eagerly anticipated by all who had the pleasure of experiencing this year's Natyanjali.

More information about MIT Natya can be obtained from their Web site (<http://web.mit.edu/natya/www/index.html>).

CLASSICAL REVIEW

*St. Petersburg Quartet Offers Extraordinary Repertoire**Program Delights with Mozart, Shostakovich, and Dvorak*

By Rosa Cao

STAFF WRITER

St. Petersburg String Quartet
 Marcus Thompson, viola
 Sept. 30, 2005
 MIT Kresge Auditorium

A large audience gathered in Kresge Auditorium on Friday night for a beautiful performance by the St. Petersburg String Quartet, kicking off the 2005-2006 MIT Guest Artist Series. In honor of the 250th anniversary of Mozart's birth, the series presents concert violist and MIT Professor Marcus Thompson playing a Mozart viola quintet with each of the visiting groups.

The concert opened with Mozart's Quintet in B \flat major, his first quintet with two violas, written when he was 17. From the beginning, it was clear that this group is special even among the world's premier chamber groups. The musicians display not only extraordinary individual quality, but also an unusual unity of musical vision for the piece. This was exemplified in their execution of the third movement, a minuet they imbued with a rare physical feeling of movement and dance.

The performers sat in a semi-circle, with Alla Aranovskaya (violin) and Leonid Shukayev (cello) at the ends. Both graduates of the Leningrad Conservatory, these two musicians anchored the crescent with expressive flourishes both musical and physical. Shukayev in particular seemed dance as much as play his cello, surging up from his seat and leaning down along his cello's neck in perfect timing with his bow. Boris Vayner (viola) steadied the center with broad strokes, while Thompson (viola) and David Chernyavsky (second violin) provided intensity in relative stillness, Thompson the perfectly well-mannered guest integrating seamlessly into the group.

The emotional core of the program came



OMARI STEPHENS—THE TECH

The St. Petersburg Quartet performs at Kresge Auditorium as part of the Guest Musician Series.

with the Shostakovich, whose haunting Quartet No. 8 in C minor, "dedicated to the victims of fascism and war," was given its full due by the Russian quartet. The symmetries in the piece verged on the profound, from the hitching sob of individual grief in the violin in the first movement, building urgently to a sense of disaster, to the shrillness in the violin supported by an insistent, ever more frantic alarm in the cello. The largeness and drama in the third movement winds down by the last movement to a decrescendo so smooth it seemed to last forever.

After the intermission, Dvorak's "American" Quartet in F Major in the second half could not

help but seem a little mundane. The performers wrung every bit of emotion possible out of the piece, but it was hard to return to pastoral simplicity from the heights of Shostakovich and Mozart. The audience was pleased, however, judging from the rousing standing ovation at the end.

The quartet, refreshingly uncoy, strode back on-stage for an immediate encore: the enthusiastic second movement of Ravel's String Quartet in F Major, full of pizzicato and pizzazz. The group clearly shared Ravel's enjoyment in this playful movement; they executed the dynamic interaction among the instruments with spar-

ling ease. The first violinist took the opportunity to dazzle with solos exuberant enough to match her glittery top, and the concert whisked itself off to a close.

If you were there, pat yourself on the back for a Friday night well spent; and if not, don't worry, the next concert in this series will be on Oct. 28, featuring the Endellion String Quartet. Meanwhile, there are plenty of other free music events coming up, from the MIT Faculty Series to the MIT Affiliated Artist Series. This information may be found on the Department of Music and Theater Arts Web site (<http://web.mit.edu/www/music/index.html>).

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CLASSICAL REVIEW

Hey BSO, Where's the Beef?

Orchestra Performs Mediocre Opener to Otherwise Promising Season

By Jacqueline O'Connor

ARTS EDITOR

Boston Symphony Orchestra
James Levine, conductor
Simon Preston, organ
Symphony Hall, Boston
Saturday, Oct. 1, 2005

The 125th season of the Boston Symphony Orchestra opened on Saturday night with an all French program featuring Berlioz, Debussy, Milhaud, and Saint-Saens. This weekend marked the beginning of James Levine's second year as Music Director of the orchestra. I had high hopes for this performance, especially after the spectacular summer season the BSO had at Tanglewood. Rumors indicate that the 2005-2006 season is to be particularly demanding; each concert promises a challenging and exciting list of repertoire. In spite of the hype, the BSO's opening night performance was less than the promised sensational.

The first half of the concert was disappointing. The orchestra opened with Berlioz's "Le Corsaire Overture," a collage of virtuosic flares and lyric melodies. The opening is especially brilliant, with the strings section playing fast moving lines with a woodwind and brass chorus behind. My first impression was that the orchestra had a great sound that night, something I have always liked about the BSO. But as the orchestra played on, I noticed that there was something lacking. Despite the array of colors this piece offers, the symphony was missing the sense of feeling and subtlety I had heard them play with so many times last season. Repeated passages seemed to stagnate and

the recapitulation of the main theme was plain. Regardless of this lackluster performance, the audience commended it with boisterous applause. People will clap at anything. If the orchestra plays loud and fast, general concertgoers seem to think this is an ovation-worthy feat. I say, get a grip.

The program continued with Debussy's wonderful orchestral poem "Jeux — Poème dansé," a piece that is challenging not only in its technical rigor but also its interpretational depth. When performed well, it's a captivating and hypnotic work of Impressionism. Saturday night's performance did not capture the magic of this piece. The BSO has, on many occasions, sent chills down my spine because of its subtlety and truly exceptional playing. The performance of the Debussy had no such effect. Despite the strong playing in the wind section, especially the English horn, the piece had no movement, no life. At times, the music was so measured that I could actually count along with it. The lack of freedom and necessary sparkle was disappointing.

I love Debussy, so at this point in the performance, I was completely miffed. How could an orchestra that I had heard turn a banal program into a truly exceptional concert just a month and a half ago lose that spark? This may have just been a bad night, but I suspect the music direction may have played a part in it.

I believe the BSO is at its most brilliant under the baton of Rafael Fruhbeck de Burgos, a Spanish conductor who appeared many times over the course of the 2004-2005 season. I may be overly romantic about conductors; while most middle school girls held George Clooney as their "older man of choice," I chose Zubin

Mehta, conductor of the Israeli Philharmonic, for his amazing performance of Mahler's "Fifth Symphony." De Burgos memorizes the score for every concert he conducts, and his conducting style shows his passion for the music and attention to every detail. James Levine, on the other hand, is very removed. He sits on a stool, barely moving and seldom giving cues. I can respect different conducting styles, but his apparent distance from the concert seems to translate into a feeling of distance from the heart of the music.

This distance was again obvious in the final piece of the first half of the concert, Darius Milhaud's short ballet, "Le Boeuf sur le toit." The title of this piece literally translates to "The Ox on the Roof," and was inspired by Milhaud's two-year stay in Brazil. The work is a compilation of various Brazilian folk songs and contains the characteristic syncopated rhythms and enchanting tangos found in Brazilian music.

The ballet tells the story of a boxer, a dwarf, a rich woman, a red-headed boy, a bookmaker, a gentleman, and a policeman in a bar called The Ox on the Roof during Prohibition in New York City. The ridiculousness of the story, in which the policeman is decapitated by a ceiling fan and then miraculously reappears at the end to pay the bill, is evident in the music. While the orchestra musicians seemed to enjoy playing this playfully quirky work, Levine remained his same detached self. The piece was certainly fun to listen to, but the unique Brazilian flavor that was obviously written into the music was not brought out by the orchestra.

The concert was not a total loss, though, as the final piece on the program was a more heartfelt and moving rendition of Saint-Saens'

Symphony No. 3, the "Organ Symphony." I was especially excited to hear this piece because of its wonderful use of the organ. When many people think back to their childhood, their most prominent sound memories are of squeaky swing sets, their dog barking, or their little sister screaming. Mine is the organ playing. My mother was an organist, and at least twice a week my brother and I would listen to her practice at the congregational church in the old part of town, coloring in the pews while Mom's playing shook the entire building. The BSO and guest organist Simon Preston captured the essence of the power of the organ in this splendid symphony.

The newly-restored organ in Symphony Hall is a beautiful instrument. It has a rich and pure sound, as well as an extensive range of voices — a characteristic of any good organ. Preston's performance was exquisite, never drowning out the orchestra (as I'm sure the instrument could) and always playing very musically. Despite a couple of places where the orchestra was only marginally together, the Saint-Saens was enjoyable to hear. Highlights included wonderful solos from the oboes, bassoons, and the English horn, as well as a powerful conclusion to the final movement that made the entire hall shake.

In spite of the rocky start, I am still looking forward to a great season from the Boston Symphony Orchestra. Levine has raised the bar on programming this year, including many large works and twentieth-century pieces to which I feel Boston listeners should be exposed. I only hope that Levine also raises his expectations in performance quality, not just the difficulty of the repertoire.

CD REVIEW

Joshua Bell Revitalizes Time-worn Concerto

Tchaikovsky's Masterpiece Reinterpreted With Bell's Personal Touch

By Tony Hwang

STAFF WRITER

"Tchaikovsky"

Joshua Bell, violin
Berlin Philharmonic

Michael Tilson Thomas, conductor

Joshua Bell, a Grammy-winning violin soloist, has a reputation for giving flashy, emotionally-charged performances. He is unafraid to stray from strict correctness in the name of artistic freedom. "Tchaikovsky," his latest album, was released Sept. 20 in the U.S. and, a sign of his popularity, debuted at No. 2 on the Billboard Classical Chart. In this recording of slightly under an hour, Bell successfully tackles one of the most virtuosic pieces in classical repertoire: the Tchaikovsky violin concerto.

The concerto, with all its fame, has become so widely performed by professionals and students alike that at times it sounds clichéd. I have played the piece myself and in consulting recordings for inspiration, I have definitely felt repetitiveness among them. It is crucial that new recordings of the concerto contain unique interpretations to keep the interest of listeners. Bell, backed by the renowned Berlin Philharmonic and the excitement of live performance, does not disappoint.

The first movement, Allegro moderato, begins with a brief introduction from the orchestra and leads into an unaccompanied solo entrance from the violin. As soon as Bell starts to play, one is immediately impressed by his clarity of tone and confident phrasing. He produces great contrast between crisp and smooth sound with ease. This high level of performance never lapses throughout the rest of the recording. Unlike in some of his earlier recordings, Bell's proficiency is top-notch even in the most technically challenging passages of this Tchaikovsky. Although young among the prominent violinists, Bell has already performed with almost all major orchestras worldwide, and his experience in maintaining the correct balance between the orchestra and soloist shows in this recording.

In fact, at times it seems that Bell is so comfortable with himself that he allows tempi to fluctuate almost as if playing an extended cadenza. There is no hesitation to pull back the pace to milk particularly juicy harmonic progressions for all they're worth, such as in the second movement, Canzonetta. He also has no qualms about blazing through fast passages as in the Finale. Further, Bell strays from the usual performance decision to make cuts in the third movement, instead claiming that the reiteration of previous melodies is necessary for the piece to make musical sense.

The classically-trained ear does not immediately accept such deviations from the standard interpretation. There are moments that cause the listener to wonder whether Bell is too carried away with leaving his personal mark on the concerto, but after hearing it again, most of his inspired decisions become much easier to understand. His ability to present, even explain, his reasoning through clearly-shaped contours of the melody over the course of a movement becomes appar-

ent. It is uplifting to see that even the most over-performed of pieces can still be presented as innovative.

In addition to the three famous movements, Bell graciously also includes the Méditation in D Minor, Tchaikovsky's original idea for the

concerto's second movement, as if to help educate classical music enthusiasts in the history of the concerto. The Méditation carries heavier emotional weight than the Canzonetta, and occasionally breaks the typical slow and sweet melody of a second movement to wail dramatically in the high register of the violin. With its complete range of expression, this piece seems to function better as a stand-alone performance. Finally, Bell rounds off the compilation with the deep yet lively "Danse russe" from Swan Lake, an exhilarating conclusion to an all-Tchaikovsky repertoire. This recording is a good example of a violinist displaying soloistic flair as well as emotional maturity, and it will earn the appreciation of Tchaikovsky fans for years to come.

In his latest album, virtuoso violinist Joshua Bell gives a vibrant new interpretation of the much-loved Tchaikovsky Violin Concerto.

FOOD REVIEW

The Battle of The Generals

General Gau's Chicken Festival 2005

By Sie Hendrata Dharmawan

STAFF WRITER

General Gau's Chicken Festival
Asian Baptist Student Koinonia

Sept. 3, 2005

20 Chimneys, Student Center

Inspired by the recent Boston Chowder Fest and Maine Lobster Festival, MIT ABSK decided to run its own General Gau's Chicken Festival last month. This Asian version of the Chowder Fest provided an opportunity for upperclassmen to rate the best General Gau's chicken in the Boston area, as well as for the freshman to taste and get introduced to one of the signature Chinese dishes in the New England area. Five restaurants participated in this soon to be annual event, and the winner was selected based on popular votes. A panel of five judges awarded best restaurants in each category.

The winner of the Festival was Dragon Garden Restaurant, who also won the Most Enticing Gau's award and the Best Texture award. The audience almost unilaterally praised the solid taste of the Gau's from this restaurant, although the judges had mixed opinions. Justin Y. Lai '07 disliked its bland flavor, although Jill A. Rowehl '08 commended the balance of the sweetness and saltiness. This restaurant won the Most Enticing Gau's award for its tempting smell and appearance as decided by the judges, although Hanyin H. Lin '06 criticized its yellow and almost fusty broccoli.

The second place prize went to Hong Kong Café, which also won the Best Flavor award and the Judge's Favorite award. Some audience members applauded the richly breaded chicken pieces, while others preferred the tangy tinge. The judges agreed that the flavor of this dish was unsurpassed by other restaurants in the Festival, mostly because of its perfect amount of aftertaste: sweet, but not too sweet. The Hong Kong Café also came close to winning the Most Enticing Gau's award. Matthew Q. Wong '06 commended its "enticing and pleasing smell," while Lai liked its shininess. In texture, the audience and the judges all agreed that the crispy breading and tender meat were a good combination.

Coming in third was Quan's Kitchen, a familiar name to most MIT students, thanks to its late-night delivery hours. This restaurant also won the Best Ingredient award. Wong described the chicken as "soft and delicate, resilient to the bite but not too chewy" and Lin said it had "firm meat but not hard ... leaving pleasant tingling on tongue." The breading looked inviting, dark and not overly fluffy.

Victoria Seafood Restaurant won the fourth place prize, as most people liked its dry and non-greasy texture. Although this restaurant did not win any awards, it did well in many categories. The judges said it was flavorful, and they also liked the soft breading. The unique reddish appearance suggested that the taste was slightly spicy — as Rowehl put it "sweet and then spicy." The audience also thought that the dryness of the sauce made it easier to chew the meat.

The last place went to Pu Pu Hot Pot, a restaurant near MIT that lives up to its suggestive name. The audience generally disliked its dish, although the judges had mixed opinions. Angela Um, MIT ABSK co-director, praised its flavor and texture, but Lai described the taste as "like air," and Rowehl thought that the mix of celery and carrot with General Gau's chicken was odd. The sauce smelled like peanut, which was unusual for a General Gau's. Although Wong thought that the meat was high quality, the lack of taste in the sauce made the taste of the meat dominant.

The first General Gau's Festival went well with five participating restaurants despite its timing that conflicted some of the rush events. Nevertheless, the freshmen who attended the Festival were glad to be introduced to the General Gau's Chicken dish early in the semester. Maybe they would not be so glad to know that many of these dishes will be their late-night friends for the next four years at MIT.

The results of the festival, along with the phone numbers for the restaurants are posted online at <http://web.mit.edu/absk/www/>.

FILM REVIEW ★★★

Clooney's Homage to Good Journalism

Pseudo-Documentary Examines Edward R. Murrow's Stand Against Joseph McCarthy

By Kapil Amarnath
STAFF WRITER

Good Night, and Good Luck
Directed by George Clooney
Written by George Clooney and Grant Heslov
Starring George Clooney, Robert Downey Jr., Jeff Daniels
Rated PG
Opens Today

1950s America was defined by the middle class values of "Leave it to Beaver," "Lassie," and the comedy-without-cares "I Love Lucy." But under that thin veneer, the Cold War raged. The seeds of the civil rights movement were planted with 1954's *Brown v. Board of Education*, and James Baldwin and Ralph Ellison's literary and intellectual contributions. The average American felt the need to conform, scared of what might result if he didn't. From this insecurity emerged Senator Joseph McCarthy.

McCarthy's fire and brimstone style and us-versus-the-Communists mentality took advantage of American uncertainty, allowing him to garner political power. One reporter, Edward R. Murrow of CBS, decided to uncover the senator's lies and smear tactics. Murrow took an inestimable risk in rising up from the fear that crippled America in the public eye of the time. "Good Night, and Good Luck" presents Murrow as an example of journalistic responsibility from a distinct and separate past to highlight the lack of quality in current news broadcasts.

The film is about Murrow's (David Strathairn) attempt to take down Senator McCarthy on his show "See It Now," in the spring of 1953. Murrow's best friend and ally is legendary producer Fred Friendly (George Clooney), while another friend, local New York broadcaster Don Hollenbeck (Ray Wise) has been blacklisted and become suicidal. Joe (Robert Downey Jr.) and

Shirley (Patricia Clarkson) Hershba are producers who aren't allowed to wear their wedding rings to work. Murrow's no-backbone higher-ups include Sid Mickelson (Jeff Daniels) and President Bill Paley (Frank Langella).

Director George Clooney directs this with a style reminiscent of friend and executive producer Steven Soderbergh, giving us a few awesome tracking shots in the studio. In the few environments the film inhabits, Clooney consistently portrays Murrow's isolation. In a defining shot, Murrow types the end of a closing monologue against McCarthy in silence, and the camera moves back, showing no one remaining in the room but a sleeping Friendly. Clooney also maintains an awareness of 50s culture and the separation between the past and present by filming in black-and-white and scoring with jazz music. Academy Award winning editor Stephen Mirrione ("Traffic") and cinematographer Robert Elswit complement Clooney behind the camera.

There's a ton of talent in front of the camera. Oscar nominees Downey Jr. and Clarkson are good in small roles, as is Clooney. But the film is built on Strathairn's performance. He represents the qualities a journalist must hold sacred — honesty, a belief in what is right, and strength in shouldering the burden of being virtuous. Constantly with a cigarette in hand, he expresses doubt and fatigue, yet keeps firm in his

beliefs, rarely cracking a smile. It's a solid performance that could garner Strathairn an Oscar nomination in his first major leading role.

The screenplay, written by Clooney and Grant Heslov, is the only area where the film is weak. The script captures many of the period details, including a casualty of the Red Scare, the prevalent sexism, and post-war affluence. But the film doesn't build tension well and trails off soon after the battle with McCarthy. The setup and ensuing let-down could have been intensified by stressing the country's fear of McCarthy. Instead, the senator is presented only in

old footage. The scribes don't take advantage of audience expectation, and the movie isn't as enjoyable as it could have been.

In this decade, the problem doesn't lie with the people as much as with the fear-mongering they're fed from news networks. The gaudiness and questionable quality of current national news networks contrasts with the work done by Murrow presented in this film. At 93 minutes, "Good Night and Good Luck" represents a quick break from the onslaught of violent images and biased reporting, providing a model for the highest level in TV broadcasting.

Royal Bengal

Boston's only authentic Bengali Cuisine restaurant

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FILM REVIEW ★1/2

'Two' Not Worth the Money of Admission*Sports Betting Movie Leaves Out Too Much Substance*

By Yong-Yi Zhu

STAFF WRITER

Directed by D.J. Caruso

Written by Dan Gilroy

Starring Matthew McConaughey, Al Pacino,

Rene Russo

Rated R

Opens Today

On the surface, "Two for the Money" is a drama about high stakes sports gambling and how one man lost everything but managed to get it all back again. The movie focuses on Brandon Lang (Matthew McConaughey) and the success of his weekly football picks. But looking deeper, the film is really about the growing relationships among Lang, Walter Abrams (Al Pacino), and Toni Morrow (Rene Russo).

Therein lies the problem with the film — there is no character development in a movie

that absolutely requires it. Everything about the movie seems underdeveloped; each facet leaves unanswered questions.

Lang, a successful quarterback in college, severely damages his knee and must now survive by making weekly sporting game picks over a 1-900 number. Abrams, who runs a large sports betting service, invites Lang to join his business. Abrams then introduces Lang to his wife Morrow and the relationship among the three blossoms like that of a family. The skeletal story is great, but the ambiguous motives make the movie empty.

Though we learn about Lang's fondness for Abrams, it's unclear why he feels that way. Sure, Abrams brought Lang to New York and let Lang live the good life, but Abrams is so corrupt and so low he brings prostitutes into Lang's life. The sleaze nearly drives Lang away from this crazy city, yet through it all, he still puts up with Abrams.

The movie also reveals Morrow's dark past as a junkie and victim of child abuse. Yet the film never tells us how she left that life. Does all that past affect her now? To what degree? You may ask yourself these questions as you leave the theater.

The same mystery surrounds Abrams. He was a gambler; now, he preys on others' gambling addictions. How does he live with that haunting past in his current profession? And what does he see himself doing with Lang? Everything about Abrams is nebulous.

Al Pacino always manages to be cast in the same role. He wants to develop a protégé and mentor someone into his mold (see "The Devil's Advocate," "The Recruit," "Any Given Sunday," etc.). Sure, Pacino's good at this type of role, but he may be too comfortable in it. He pulls off great acting without ever alerting the audience there isn't much content behind the character. We know, for example,

that he wants to make Lang his successor, and we believe in his judgment wholeheartedly. Yet we never really understand how he sees this talent and why he has so much faith in it.

McConaughey also fits well into his character. His personality is less subtle; after all, his character is younger and supposedly more prone to emotional flares. McConaughey's natural talent at being a nice guy is perfect for Brandon Lang: innocent, fun-loving, good-natured. In short, his performance is a joy to watch.

Despite good acting, the movie is still superficial. Perhaps we are only intended to catch a glimpse into the characters' lives without fully understanding their thoughts and actions. This lack of development leaves the audience feeling cheated and empty, which makes the movie nice to look at but not so wonderful to think about.

FILM REVIEW ★★1/2

'Greatest Game' Just Barely On Par*Tale of Golf's 1913 U.S. Open is Confusing, Yet Entertaining*

By Yong-yi Zhu

STAFF WRITER

Directed by Bill Paxton

Written by Mark Frost

Based on the book by Mark Frost

Starring Shia LaBeouf, Stephen Dillane

Rated PG

The "Greatest Game Ever Played" easily falls short of the greatest golf movie ever made. But it will satisfy your appetite for a feel-good, entertaining movie for the better portion of two hours, assuming you can sit through the bland opening credits. The movie does improve significantly after those credits roll by, but a slew of problems prevent it from being a great movie.

Right off the bat, the movie is unnecessarily confusing. Even for someone with golfing knowledge, I could not keep the characters straight for quite a while. Who is Harry Vardon? Why can't he be a member at a club? And yet why is he so popular? The movie does not answer these questions logically. Instead, it shoots back and forth between the lives of Vardon and the amateur Francis Ouimet, who later battles Vardon for the 1913 US Open. From London to Boston, from one golf club to another, the movie confusingly shifts from one character to another. But when the two storylines collide, the movie takes a big turn for the better.

What is the movie about? It's almost a

"Cinderella Man" with golf clubs instead of boxing gloves. Even Francis Ouimet, played by Shia LaBeouf, looks like a younger version of Russell Crowe. Ouimet wants to be a golfer but is a mere caddie; in those days, you were either born a golfer or never became one. Unbounded by social distinctions and driven solely by a passion for golf, he begs his father to pay his entry fee to a tournament at the country club. If he fails to qualify, he promises, he will give up golf for life. Ouimet does in fact fail to qualify, but when the U.S. Open in 1913 comes to town, he is invited to play by the president of the U.S. Golf Association since he is a local. He must decide whether to disappoint his father or disappoint himself.

Vardon (Stephen Dillane) has a different problem. As a child, he was forced out of his home because a golf course was being built there. The men building the course also tried to destroy his hopes of playing the sport. Years later, even after winning five British Open tournaments to become one of the most celebrated golfers in the world, he is still unsure of his place in society. Why should he not belong to a country club just because he wasn't born into status? Must there be a caste system separating the "gentlemen" from everyone else? Vardon is a troubled man who must conquer his demons in the next US Open.

The acting in the film is fantastic. True, LaBeouf may look like Crowe, but he acts with the subtlety of Ralph Fiennes. He has

all the skills to play someone young but has the presence of an adult. You feel his emotions from disappointment to absolute joy. Dillane was terrific in his portrayal of Vardon. His contemplative looks reveal his troubled state. Even though he doesn't say much, he conveys his motivations clearly and poignantly through his facial expressions.

Despite the terrific performance by the two main characters, Josh Flitter steals the show from the adults. He plays Eddie Lowery, Ouimet's 10-year-old caddie, though he hardly acts his age; not only is he a loyal caddie, he also motivates Ouimet. Flitter makes sure that the audience feels Ouimet's frailty, perceptibly contrasted with his own character's confidence. He delivers his lines with such bravado that you believe Lowery has had years of experience as a motivational speaker.

In addition to the crisp acting, the music



BUENA VISTA PICTURES

Bill Paxton's "The Greatest Game Ever Played" features two unlikely golf heroes who compete in the 1913 U.S. Open.

in the film keeps you engaged. The intensity of the music makes the golf matches exciting for anyone, even those with no interest in the game. Bill Paxton couples the score with striking golf scenes, creating an intense yet artistic atmosphere. Paxton further uses some clever camera angles within computer-generated visualizations of the golf course. The end result is a film that recreates the excitement of golf like you've never experienced before.

O N T H E S C R E E N

— BY THE TECH ARTS STAFF —

★★★★: Excellent

★★★: Good

★★: Average

★: Poor

★★½ **40-Year Old Virgin, The**

Andy Stitzer (Steve Carell) is the consummate dork who collects action figures, bikes to work, and stays far away from women. Without any friends, there's no one to tell him what he's missing. The generally artificial scenes and outrageously unbelievable characters are not noticed much because the movie makes you laugh so hard that you can barely put more popcorn in your mouth. (Yong-yi Zhu)

★★ **A History of Violence**

After killing two men in his diner out of self defense, Tom Stall (Viggo Mortensen) is forced by the mob to confront his past. There is a moment during the film when you wonder what it's all about, not because it's too deep, but because too many things are happening, and nothing seems to come together. (Yong-yi Zhu)

★½ **Aristocrats, The**

This film features Hollywood notables delivering and analyzing what co-creator Penn Jillette touts as "the dirtiest joke you will ever hear." And with the rabid incest, bestiality, child rape, and bodily fluids (and solids), hopefully it is. The joke — too vulgar to repeat in any form here — isn't even funny. (Kathy Lin)

★★ **Broken Flowers**

Bill Murray is Don Johnston, a modern-day Don Juan who one day discovers an unsigned letter in a pink envelope — one of his relationships 20 years ago apparently yielded a son. He embarks on a cross-country journey to visit four former girlfriends and hopefully find the anonymous mother. The lack of a convincing plot, and more importantly, a point, means that those two hours of your life are better spent elsewhere. (Kelley Rivoire)

★★½ **Brothers Grimm, The**

The movie follows the adventures of the brothers Grimm, the fairy tale authors who go around French-occupied Germany at the end of the 18th century ridding villages of evil that their buddies are cooking up. But their adventures take a turn for the worse when the French government summons them to investigate what appears to be genuine witchcraft evilness. Humor, adventure, and crazy violence ensue. (Bill Andrews)

★★½ **Constant Gardener, The**

Though this may appear to be a film about the drug companies taking advantage of Africans, it is in fact a story about what a man will do for a woman he loves with every ounce of his strength. If you want a smart film that's not only well done but is also pleasing to watch, this is a must. (Yong-yi Zhu)

★★½ **Corpse Bride**

Tim Burton's latest feature is a dark-hued romantic fantasy, which combines an unconventional story with subtle satire and unusual

cinematographic techniques to deliver a truly delectable treat. Factor in the vocal talents of a remarkable cast and Danny Elfman's sparkling music, and you have a masterpiece you won't regret watching over and over again. (Bogdan Fedele)

★½ **Into the Blue**

Hollywood frequently brings us thrillers that fail to weave action and story together into an entertaining film. It's been a while, however, since I've seen one with so little meaning in its story. With shots of treasure hunters swimming around in the Caribbean, stumbling across some mystery, this movie is crammed full of cheesy drama and lacks quality action scenes. (Nikhil Nadkarni)

★★★★ **March of the Penguins**

Capturing a range of stunning images from the lighthearted, with penguins coasting along the ice on their bellies, to the majestic, with a seemingly infinite line of penguins marching to the sea and jagged walls of ice, this documentary surely pulls at the heartstrings of all who watch it. (Kelley Rivoire)

★★½ **Murderball**

Murderball, the original name of quadriplegic rugby, was invented in Canada in 1979. The movie excels most when it relates the lives of its players to ours through familiar activities. Moreover, it gracefully portrays the impact of the sport on the journey quadriplegics travel, from coping with their condition to parenthood. (Kapil Amarnath)

★★½ **Oliver Twist**

Roman Polanski recreates this classic tale with sympathy and tenderness born of a childhood not unlike Oliver's own. For all but the most hardened realists, the resulting fairy tale journey is a delight. (Rosa Cao)

★★★ **Proof**

Hollywood once again successfully brings together mathematical genius and mental illness. For the first time on the big screen is a woman whose experiences highlight important challenges facing women in math and science today. (Kathy Lin)

★★½ **Serenity**

This film, an adaptation of the TV show "Firefly," is both a fanatic-pleasing romp and an action-packed introduction to a fabulous new world. See it because you'll experience adventure, laughter, thoughtfulness, intelligence, and damn good storytelling. (Nivair H. Gabriel)

★★½ **Wedding Crashers**

Owen Wilson and Vince Vaughn never seem to do their real jobs as divorce mediators; instead they crash weddings on a regular basis (going to weddings uninvited, drinking free booze, and meeting, then sleeping with girls there). If you're looking for a lighthearted summer comedy with some stupid humor and superfluous sex, then "Wedding Crashers" may be the perfect movie for you. (Yong-yi Zhu)

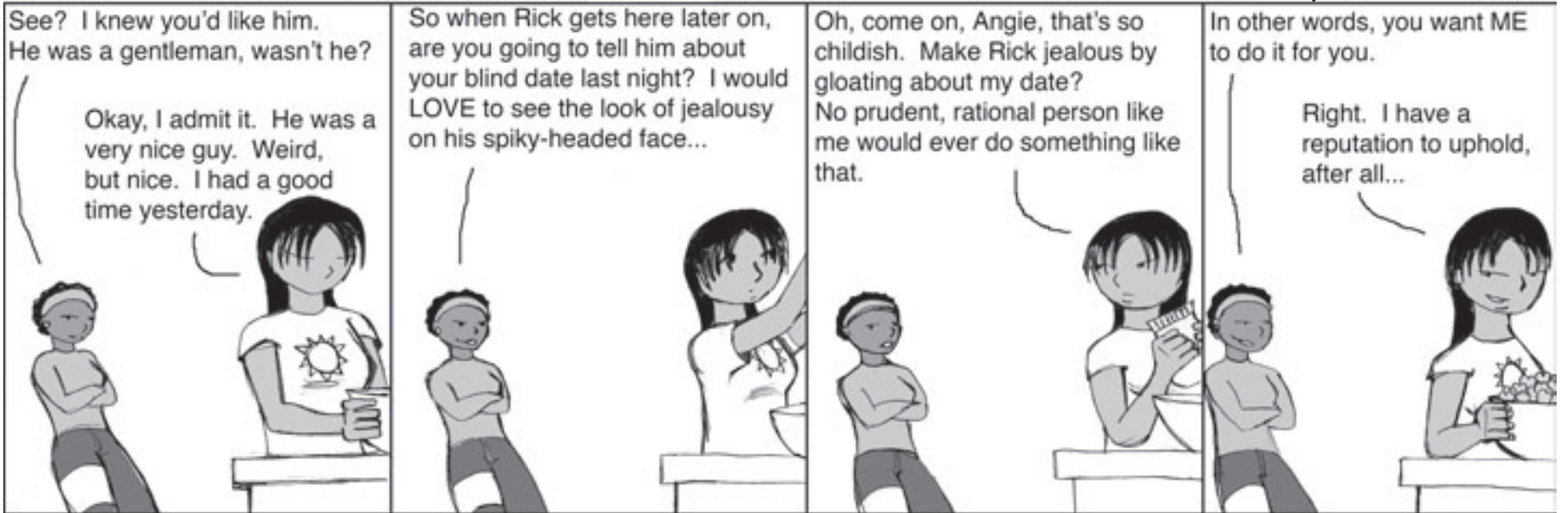
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Schleminkel



More Cowbell

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Crossword Puzzle

Solution, page 15

Instructions: Fill in the grid so that every column, row, and 3 by 3 grid contain exactly one of each of the digits 1 through 9.
Solution on page 13.

Reid Looks to Gather Information About MIT Diversity

Reid, from Page 1

expanded into one of Institute-wide influence on the basis of recommendations from a review committee chaired by Chancellor Phillip L. Clay PhD '75. "The faculty committee who looked at the OME felt that it should have influence over diversity issues beyond just undergraduate education," Reid said. The director of OME originally reported directly to the dean of undergraduate education; now, Reid will report directly to Clay.

As director of the OME, Reid intends to take inventory of existing diversity programs at the Institute. "I need to figure out what's been effective and why," he said, and he will extend this analysis beyond MIT.

The committee that reviewed the OME "did not get into operational issues but did encourage MIT to look at how other schools address similar challenges. That will now happen," Clay said.

The office will study diversity patterns and try to explain what aspects of educational programs have led MIT to have a smaller percentage underrepresented minorities as graduate students than as undergraduates.

From this information, Reid said he will look to create new programs to address diversity issues. "My role will be to work with offices that are directly in the trenches dealing with these issues. So rather than reproducing their work, I think we could do a better job leveraging their efforts."

Although the MIT faculty have put forth an initiative to increase the



Karl W. Reid, the new director of the Office of Minority Education, lays out goals for his new position during the Minority Introduction to Engineering, Entrepreneurship, and Science program's annual reunion, held last Saturday, Sept. 29 in La Sala de Puerto Rico.

OMARI STEPHENS—THE TECH

number of underrepresented minority faculty members and graduate students, Clay said that the OME review would be unrelated.

"Clearly we could take some of the lessons we've learned in MITES about creating community, build-

ing confidence, and connecting with the institution that will increase the chance that more students of color will pursue graduate studies and seek faculty positions," Reid said.

"As a student, the more diverse your interactions, the more satisfac-

tion you get out of college," Reid said.

Reid left his previous position as executive director of special programs in the School of Engineering and the MITES program to assume his new role. Thomas L. Magnanti,

dean of the School of Engineering, will lead a search for a new MITES director. Reid said he will be involved in the search and will also remain as an advisor for the special programs in the School of Engineering programs he previously oversaw.

Nobel Awarded for Research in Metathesis Reactions

Schrock, from Page 1

afternoon.

In his lecture, Schrock first acknowledged his family, colleagues, and students, giving his wife special acknowledgement. "She got me

when my stock was real cheap ... I was not an obvious Nobel candidate," Schrock said.

The new laureate said that he first became interested in chemistry at age eight when his older brother gave him a chemistry set. Schrock

recalled the explosions associated with his childhood experiments involving nitroglycerine and sodium. "You could move atoms. You could be God. That really turned me on," he said.

In metathesis reactions, special

organometallic catalysts are used to allow atoms to switch places and form new compounds. When carried out under the correct conditions with the appropriate catalysts, metathesis reactions are fast and environmentally friendly, making them ideal processes for the chemical industry.

Although scientists knew of these metathesis reactions and could carry them out by the 1950s, "what they were, was not well known," Schrock said.

In 1971, Chauvin proposed a mechanism, and from that seminal work, Schrock experimented with catalysts while working at Du Pont. After studying metals such as tantalum, molybdenum and tungsten for potential roles in metathesis, he succeeded in developing a stable molybdenum-based catalyst in 1990. Grubbs later improved upon Schrock's work by coming up with an even faster and more effective ruthenium-based catalyst.

The metathesis process can be used to break down readily available cyclic carbon molecules with double bonds to produce polymer chains

with a variety of uses. Schrock said that the metathesis reaction has been important to the advancement of the polymer field.

At the end of his Nobel lecture, Schrock said that he had no idea that the initial results of the "basic research" he did at Du Pont would eventually lead to the Nobel Prize. "At the time, I was just happy to have a job and a wife who loved me," he said.

Schrock concluded his lecture by emphasizing the need for basic research, now underfunded "thanks to lower taxes and the war in Iraq." He ended with a message: "Mr. Bush, don't do this. Let us do our job."

Schrock earned his bachelor's degree in 1967 from the University of California at Riverside and PhD degree

from Harvard University in 1971. After one year as a National Science Foundation postdoctoral fellow at Cambridge University and three at Du Pont, he joined MIT in 1975.

—Kelley Rivoire contributed to the reporting of this story.

"You could move atoms.

You could be God.

That really turned me on."

—Richard R. Schrock



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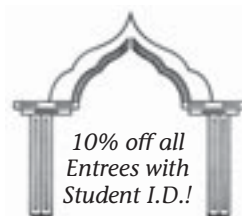
The Ig Nobel Prizes honor people whose achievements have made people LAUGH, and then made them THINK. Ten prizes are given to people who have done remarkable things — some of them admirable, some perhaps otherwise.

For more information on the 2005 Ig Nobel Prize Ceremony and the Ig Informal Lectures, please visit: <http://www.improbable.com/>

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Harleman Was Devoted Teacher

Harleman, from Page 1

to MIT in 1950, serving as Ford Professor of Environmental Engineering from 1975 to 1990. He retired as Ford Professor emeritus in 1991.

A devoted teacher, Harleman supervised more than 50 graduate students and championed women in engineering; at the same time, he brought his expertise and enthusiasm to the next generation through leadership at the Institute. He served as head of the Water Resources and Environmental Engineering Division from 1972 to 1983 and as director of the Ralph Parsons Laboratory from 1973 to 1983.

Under Harleman's leadership, the Parsons Laboratory evolved from a premier center of hydraulic research to global leadership on water resources and the water environment. Students from all over the world benefited from the mentorship of Harleman and his wife, Martha. His legacy continues: The Parsons Laboratory remains in the forefront of research and education in the water environment.

Harleman served on advisory boards for the cleanup of Boston Harbor and Massachusetts Bay, Chesapeake Bay in Maryland, and Honolulu and Hong Kong harbors.

Outside the United States, Harleman worked with advisory groups in Australia, Brazil, China, India and Mexico and the developing world to manage or clean up effluent from megacities. Since 1995, he had been an advisor to the Italian government agency, Consorzio Venezia Nuova, charged with protecting Venice against storm tide flooding.

According to his son Robert, Harleman's two favorite places were Venice and Nantucket. His love of open water extended to a love of sailing. He was a man of many passions, including opera, gardening, Italian food and good political discussions. Above all, he loved his wife, his children and his grandchildren, his son said.

Harleman married the former Martha Havens in 1950. He received the BS degree from Pennsylvania State University in 1943 and the SM and ScD degrees from MIT in 1947 and 1950, respectively.

He was a member of the National Academy of Engineering and an honorary member of the Boston and American Societies of Civil Engineers.

In 2000, MIT established the Donald and Martha Harleman Professorship to support a faculty member whose service within and outside the Institute extends the example set by the Harlemans.

Harleman is survived by his wife; a son, Robert I.H. Harleman of Wilton, Conn.; two daughters, Kathleen T. Harleman of Champaign, Ill., and Anne Harleman Krieger of New Canaan, Conn.; and six grandchildren.

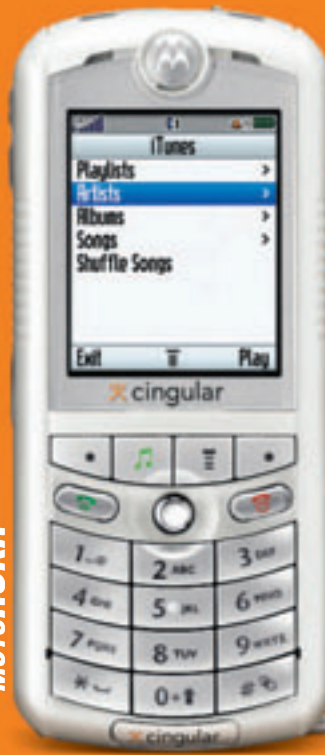
In lieu of flowers, the family has asked that donations be made to the Nantucket Hospice Care Center and Nantucket Hospital (Home Care Department).

Women's Soccer Plays at MIT



(above) Forward Kari Mruz of Clark University, left, inadvertently deflects the ball with her arm as Chi-Fong Wang '07, right, goes up for a header during the women's soccer 1-0 loss on Saturday, Oct. 1 at Steinbrenner Stadium. (left) Teagan A. Andres '08 passes the ball. Photography by Stanley Hu

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Solution to Sudoku

from page 11

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Salary Gap Between High School And College Education Narrows

By Louis Uchitelle
THE NEW YORK TIMES

In the bifurcated job market of the last 25 years, a college education became an indispensable credential for a middle-class wage. That is still the case, but the payoff from a bachelor's degree is beginning to falter.

The turning point was the 2001 recession. Until then, the typical pay of a worker with a bachelor's degree had pulled steadily away from the wages of those with only high school diplomas. Even recessions did not interrupt the climb. Starting in 2001, however, college-educated people stopped gaining ground and even lost some, suggesting that employers increasingly take degrees for granted.

They have reason to do so. The percentage of college-educated young people has never been higher, and they are jostling for jobs in the fourth year of a recovery whose chief characteristic is a lack of robust hiring. The oversupply of college graduates is likely to disappear in the years ahead, some economists argue, but until then it is an obstacle.

"People have become accustomed to thinking that when they get out of college, they will earn 40 percent more than their high school friends who never went to college," said David Card, a labor economist at the University of California,

Berkeley. "Now we are chipping away at that wage premium."

Actually, it peaked in 2001 at just over 45 percent, and with the premium at more than 40 percent today, a four-year college degree is still a solid investment. Consider the median wage of full-time workers who are at least 25 years old. At the end of last year, it was \$986 a week for those with a bachelor's degree or higher, versus \$574 for those with only a high school education, according to the most recent calculation from the Bureau of Labor Statistics.

The narrowing in the premium partly reflects a surge in demand for high-school-educated workers in construction and health care, both booming industries in the current recovery. That helps explain why the median weekly pay of the high-school educated is up 3.6 percent since 2000, adjusted for inflation, a rate of increase four times as great as the rise in pay for the college-educated.

"There has been enormous demand for low-skilled workers," said David H. Autor, an economist at the Massachusetts Institute of Technology. "The reason the college premium has not fallen through the floor is that there has also been a growth in the demand for the college-educated."

That growth is not what it was in the late 1990's, a thriving era

for high-tech industries and Wall Street investment companies. But after a fallow couple of years, hiring picked up last spring for new graduates with bachelor's degrees, the National Association of Colleges and Employers reported. While the revival is a shadow of what used to be, a college education is still a ticket into the work force.

Nearly 76 percent of those with a four-year college education in America hold jobs, the Bureau of Labor Statistics reports, compared with only 60 percent of high school graduates. Those percentages are down only a hair this decade, but among the college-educated a noticeable number with bachelor's degrees are showing up in jobs that seem to require only a high school education.

The bureau tracks this through a periodic survey of workers age 25 to 44. The most recent survey, completed in 2002, shows, for example, that 17 percent of the nation's office clerks had bachelor's degrees or higher. So did 12 percent of the derrick operators; 19 percent of the theater ushers, lobby attendants and ticket takers; 13 percent of the bank tellers; 14 percent of the typists and word processors; and 37 percent of the flight attendants — to cite just a few occupations that do not seem to require a college education, although at least 10 percent of the jobholders have one.

MIT Solar Car Team Working Toward '07

Solar Car, from Page 1

we were confident that the driver was safe and found that the car was mechanically sound, we voted unanimously to keep the team in the game."

"Considering the severe damage that our car sustained a mere 21 hours before the race started, I think we did incredibly well," Pentacoff said. "Most everyone doubted that we could even finish the race, much less beat cars that had twice as much power. I guess we proved them wrong."

MIT still holds the record for the shortest North American solar car finishing time in the race, said team leader Peter K. Augenbergs.

The third place University of Michigan team did not best MIT's time of 32 hours 54 minutes from the 2003 race, when SEVT placed third.

The SEVT team members returned earlier this week, making plans for the 2007 race already.

"The 2007 project will be an entirely new design," Augenbergs said. "But in order to streamline testing and debugging, we will install the new electronics on [Tesseract] for testing."

Other team members included Benjamin W. Glass '07, Alex C. MeVay '02, Adam R. Vaccaro '07, and James M. Harvey '05.

The team also received the John Hoerner Spirit of the Race Award, Augenbergs said.

Police Log

The following incidents were reported to the Cambridge and/or MIT Police between Sept. 26 and Oct. 3. This summary does not include incidents such as suspicious activity, false alarms, general service calls, medical shuttles, or isolated incidents of theft.

Sept 27: 600 Technology Square, at 2:30 a.m., robbery of convenience store, two unidentified males held attendant at gunpoint.

Sept 30: Eastgate (60 Wadsworth St.), 5 yr. old reported missing, wearing red plaid shirt and grey corduroys.

Oct 3: Student Center (84 Mass. Ave.), art gallery on second floor broken into. Bldg. 68 (31 Ames St.), tampered lock.

—Compiled by Marjan Rafat and Tai DaCosta with assistance from other members of the MIT Crime Club.

Call SIPB with
questions at x3-7788!

Ask SIPB

Drop by our office
in W20-557!

Want to learn more about Zephyr? Need to figure out if someone is logged in and communicate with them quickly? In this final introductory column, we cover the basics of using Zephyr.

Question: What is this white rectangular thing that just popped up?

Answer: That would likely be a zephyr. Zephyr is Athena's instant messaging system. Unlike some chat programs like AIM, each "IM" shows up in its own window by default. It may be an official notice or perhaps just a message from a friend. When you're done with it, click on it to close the window. The default program responsible for displaying these messages is called `zwgc` — Zephyr WindowGram Client.

Question: What are some other good zephyr client programs?

Answer: Owl is another good zephyr client. It is a tty-based (text-only) client. You can run owl by running:

```
athena% add ktools; owl
```

Once running owl, you may find it useful to hit 'h' to read through the help menus. Owl has its own set of commands for sending messages and adding classes. The commands for joining and leaving classes are meant to be used along with `Zwgc`.

`vt`, `zwgc -ttymode`, `Gaim` (`gaim` on Athena), `WinZephyr`, and `Maczephyr` (see <http://itinfo.mit.edu/product?name=zephyr> for the last two) are other options, but zephyr clients are a very personal thing. Owl is probably the easiest to customize. `owl`, `vt`, and `zwgc -ttymode` are all console programs, and they can thus be run from non-Athena computers by using `ssh` to connect to `athena.dialup.mit.edu`.

Question: So, I can receive zephyrs, but how do I send one?

Answer: You can send a zephyr to another person using the "zwrite" command:

```
athena% zwrite username
```

You can send to more than one user at a time by listing them after the first name.

Question: Can I use group chats in zephyr?

Answer: Zephyr has group chats, called classes. Any message in a zephyr class also has a subject, which is called an instance. You can see all messages that go to any instance within a particular class or just the messages sent to a particular instance of a particular class. (Example: A message about the SIPB office might be sent to class "sipb" instance "office." Since most SIPB members like seeing anything about SIPB, they subscribe to all instances of class "sipb.")

Some commonly used public classes are "help" (for asking all sorts of questions), "geek" (for various technically oriented questions), and "message" (the default zephyr class).

Here are the commands for joining and leaving zephyr classes:

| Command | Description |
|---|--|
| <code>zctl sub classname * *</code> | Join the class temporarily until you logout. |
| <code>zctl add classname * *</code> | Join the class until you logout, AND add to your zephyr subscriptions (so you join it automatically next time you log in). |
| <code>zctl unsub classname * *</code> | Leave the class. |
| <code>zctl del classname * *</code> | Leave the class, AND remove it from your zephyr subscriptions. |

The first "*" signifies that you should sub to all instances in the class, and the second "*" signifies that this is a group chat. Your zephyr subscriptions are saved in your home directory in the file `~/zephyr.subs`.

To send a message to a zephyr class, you can type `athena% zwrite -c classname -i instance`

Class "message," the default class, is a special case. When people talk about subscribing to an instance, they usually mean an instance of class "message." Examples of such instances are "white-magic" (for random discussion), "war" (war-related topics), "war.d" (discussion about the war instance), and "weather" (for automated weather announcements). Several courses also have instances they use.

To temporarily join a specific instance of class "message" without seeing any other instances, type:

```
athena% zctl sub message instancename \*
```

To send a message to an instance of class "message," type:

```
athena% zwrite -i instance
```

NOTE: Class "message" instances are NOT private. All instances of class "message" are logged in the "zlog" locker, and some people subscribe to all instances.

Question: How do I create my own zephyr class?

Answer: Just subscribe to whatever classname you want, and start zephyring there. It is common for people to use classes named after their usernames, since other people

know to sub there.

Before subscribing, if you're creating a class that's not your username, you should check to make sure that no one is using the class, by sending a message to the class. If you get a message that says no one is subscribed, then you're all set. Otherwise, you may want to choose a different class name.

One important fact is that zephyr classes are only as private as their name. Anyone who knows the name of a zephyr class can subscribe there and send messages there — there are no ways to ban, kick, or block people from zephyr classes.

Question: How does zephyr do buddy lists?

Answer: To make a buddy list, create a file in your home directory called `~/anyone`, and list each friend's username on a separate line.

To see who's online, just type the command `znol` at the athena prompt. You'll get a list of people, the machines they're logged into, and some other information. People who aren't logged in usually won't show up.

```
athena% znol
user1: this-machine-does-not-exist.
mit.edu owl Sun Oct 2 02:51:05 2005
friend2: contents-vnder-pressvre.mit.
edu pts/26 Sun Sep 25 13:10:30 2005
```

Zephyr Etiquette

There are a few conventions that you should use when sending to group chats on zephyr.

First, subscribe to the class (or instance) before zephyring there. The only time when you wouldn't want to do this is if you're trying to see if a class is in use, as mentioned above.

Secondly, instances should be short and limited to alphanumeric characters, underscores, hyphens and periods. Spaces are especially annoying.

Third, linewidth your zephyrs. Long messages that don't have returns are annoying to users of several common zephyr clients that deliberately don't wrap lines, including `zwgc`.

Question: How do I find out more about Zephyr?

Answer: To find out more about zephyr, you can check out SIPB's Inessential zephyr, at <http://www.mit.edu/afs/sipb.mit.edu/project/doc/izephyr/html/>, or in hardcopy form at the SIPB office.

You can also see our March 7, 2003 column at <http://www.mit.edu/~asksipb/2003columns/2003-03-07-zephyrp2/> for some additional information.

To ask us a question, send e-mail to sipb@mit.edu. We'll try to answer you quickly, and we might address your question in our next column. You can also stop by our office in W20-557 or call us at x3-7788 if you need help. Copies of each column and pointers to additional information are posted on our Web site: <http://www.mit.edu/~asksipb/>.

The Tech Production Department's character of the day is the pilcrow.

The pilcrow, often referred to as the "paragraph mark," is used to indicate the start of a new paragraph when enumeration is intended. Where you might use a "bullet point," we use pilcrows.

prod@tt.mit.edu

Process of Penguin Defecation, Nigerian Spam Earn Ig Nobels

Creator of Patented 'Neuticles' for Bereaved Dogs Honored

Ig Nobel, from Page 1

from the finest and most infinitely cheap materials. Prizes were given out by actual Nobel laureates to the Ig Nobel recipients.

This year's Ig Nobels included Gauri Nanda G, inventor of Clocky, an alarm clock that runs away and hides, forcing its owner out of bed. While taking an industrial designing class at MIT, Nanda came with the idea of Clocky in "an effort to humanize technology" into something that we all go through — waking up in the morning.

Also a winner was John Mainstone from University of Queensland in Australia, who was recognized for being the guardian and the conductor of an experiment rated by the 2002 Guinness Book of World Records as the longest experiment. Started in 1927 by Thomas Parnell and still ongoing, the famous Pitch Drop Experiment monitors a glob of congealed black tar that has been dripping through a

funnel at a rate of about one drop every 10 years. Mainstone said he had been forced to keep the news secret, even from his wife, until one day before the announcement.

After 35 years of hard work, the 42-year-old Yoshiro Nakamats was rewarded for taking pictures of his meals for analysis. In his research, he discovered 55 important elements for a long life of as many as 144 years, which he calls the Dr.

Nakamats' Ymmu Cerebrex 55.

Other winners included Claire Rind of Great Britain, who took Peace Prize honors for electrically monitoring the brain activ-

ity of a locust watching scenes from "Star Wars," and Edward Cussler of the University of Minnesota, Minneapolis, who realized "every 10 year old boy's dream," an experiment to determine whether people can swim faster in syrup or water. Cussler's experiment lasted 48 hours and employed 20 willing students as test subjects, though in the end he concluded that there was no difference.

James Watson received an award in Agricultural History for his academic study of "The significance of Mr. Richard Buckley's Exploding trousers." Gregg A. Miller of Oak Grove, Missouri in Medicine won for inventing Neuticles, artificial replacement testicles for dogs that come in three sizes and degrees of firmness. It took "two years to get the balls rolling" for a patent for the invention, he said.

In literature, the internet entrepreneurs of Nigeria were recognized for creating a series of short but bold stories distributed via e-mail. A long list of people received the reward in Biology for being dedicated to smelling and documenting the odors produced by 131 species of depressed frogs.

The award for fluid dynamics was given to Victor Benno Meyer-Rochow for his use of basic principles of physics to calculate the pressure that builds up inside a penguin when it defecates — described in his paper, "Pressure Produced when Penguins Poo — Calculations on Avian Defecation."

The 10 prize-winners will present their work in 10-250 at 1 p.m. this Saturday, providing further opportunity for a good laugh and profound thinking.

Edward Cussler was awarded an Ig Nobel Prize for studying whether people can swim faster in syrup or water — the answer: it doesn't make a difference.

Write to *The Tech!* Letters for publication are always welcome at letters@the-tech.mit.edu.

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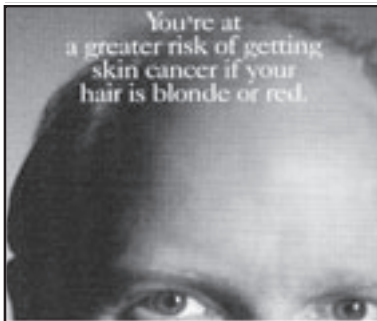
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Solution to Crossword

from page 11

| | | | | | | | | | | | | | |
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Undergraduate Association
Student Committee on Educational Policy

SPORTS

Bet on the Chargers On Sunday as AFC's Best Teams Face Off

By Yong-yi Zhu
ASSOCIATE SPORTS EDITOR

A preview of this week's NFL action:

Game of the Week: Steelers at Chargers

The Chargers beat up on the Patriots last week, torching the New England defense for 41 points. The Steelers almost beat the Patriots the week before, losing on a botched clock operation. Can we say AFC Championship showdown? I give the advantage to the Chargers, especially since they're playing in San Diego where the weather can be too warm for the Steelers' black jerseys.

Upset Special: Redskins at Broncos

The Broncos are being given a full touchdown in this game, perhaps because of the bettors' lack of trust of the Skins. The Redskins will win this game outright, especially with their tough defense. They stopped RB Shawn Alexander last week, so there's no reason to worry about Broncos RB Mike Anderson. Their offense has been just enough every game. This one will be close, but Joe Gibbs will be 4-0 when it's all said and done.

The Rundown:

Ravens at Lions: In the last two games, Lions RB Kevin Jones has rushed for 60 yards combined, which might explain the lack of effectiveness of QB Joey Harrington. Ravens MLB Ray Lewis can take advantage knowing all he has to worry about is killing the quarterback. The Ravens will beat the Lions by a field goal.

Dolphins at Bills: Did you know the Miami Dolphins are in first in the AFC East? Who says they need Ricky Williams? No RB Takeo Spikes for the Bills means Ronnie Brown will look even better this weekend. The Dolphins will take another game on their way to a playoff run.

Patriots at Falcons: The Patriots suffered their first home loss since gas prices became unreasonable. (Those days are long gone.) Their nightmare of a first-half schedule continues facing Mike Vick, whom they should be able to handle easily. Besides, who knows how injured Vick really is?

Seahawks at Rams: This will be

a hotly-contested game because both teams are coming off losses. But this week, the Seahawks will go back to their bread and butter in RB Shawn Alexander after being just nipped by the Skins last Sunday. The Rams won't manage to stop him or to out-pass the Seahawks.

Titans at Texans: I smell major mediocrity in this game; what else can you say about two teams with one win between them? David Carr will win this one simply because the Titans have no real defense to stop any sort of passing attack.

Panthers at Cardinals: Panthers QB Jake Delhomme played decently in the win over Green Bay last week. The Cardinals also played decently in their win over the 49ers. But Carolina is a playoff contender; San Francisco was not. The Carolina Inconsistencies will not have a hard time beating the Cardinals by at least a touchdown.

Eagles at Cowboys: How pathetic is it to lose to the Raiders, especially having almost lost to the 49ers the week before? In Julius Jones I no longer trust. The Eagles, on the other hand, proved that an injured McNabb is still McNabb. The Eagles will win this game big as they assert complete dominance over the NFC East.

Bengals at Jaguars: How can bettors still bill Jacksonville as the favorite after their ineffective performance against the Broncos last week? Carson Palmer will torch up the Jag defense and continue his potential MVP campaign.

Saints at Packers: The Packers have slowly gone from playoff hopefuls to 0-5 losers. Lambeau Field has turned into Lambeau Flogging-ground. The Alamo City Saints will add to Brett Favre's woes as they beat the Cheeseheads with a solid air attack.

Buccaneers at Jets: Bucs RB Cadillac Williams will continue his campaign beating up on the offensively-challenged Jets. The Bucs will be 5-0 when this game is done.

Bears at Browns: The Bears actually have a chance to make the playoffs with the NFC North looking rather pathetic. They need to win and will beat the Browns this week, totally shutting down the Cleveland offense.

Colts at 49ers: Butt whooping — no real need to say any more. The Colts will win by three touchdowns.

The MIT women's tennis team defeated Wheaton College 9-0 this past Tuesday, Oct. 4.

(right) Mariah N. Hoover '08 hits a backhand across the court towards her opponent.

(below) Jusleen M. Karve '08 eyes the ball as she winds up for a backhand.



Photography by Ray C. He



Women's Tennis Team Soundly Defeats Wheaton College 9-0



Cristina F. Stefanescu '07, left, brings the ball upfield during the women's field hockey 9-1 victory over Regis College on Tuesday, Oct. 4 at the Jack Berry Field. The victory gave the team a 9-2 record this season, one of the best starts in the history of the program.

UPCOMING HOME EVENTS

Friday, Oct. 7, 2005

Varsity Women's Soccer vs. Smith College
4 p.m., Steinbrenner Stadium

Saturday, Oct. 8, 2005

Varsity Sailing — Metro Series Five
9 a.m., Charles River
Varsity Football vs. Western New England College
1 p.m., Steinbrenner Stadium

Sunday, Oct. 9, 2005

Varsity Sailing — Metro Series Five
9 a.m., Charles River
Varsity Sailing — No Ringer Invitational
9 a.m., Charles River

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