

Athena Reports Peak Usage Levels

By Gabriel J. Rlopei
STAFF REPORTER

Athena usage has hit record levels this term, according to Gregory A. Jackson, director of academic computing. Compounded with software and hardware difficulties on certain brands of computers, Athena clusters are more crowded than ever.

"We surpassed last year's peak usage within the first few weeks of the term, reaching a usage level that's almost twice what it was about three years ago," Jackson said.

Although faster computers were installed at the end of summer, the total number of machines stayed the same. "Increased demand and level resources translate into constrained access," Jackson said.

Many students agree that it is difficult to find a free workstation in Athena clusters. Some people said they have often waited several minutes or longer for a machine to become available.

"It's been more crowded than last year, but it usually doesn't take too long to get on," said Michael K. Fang '96.

Lawrence S. Schwartz '94 was less optimistic. "I usually find [the

clusters] completely full, especially during peak hours and especially at this cluster [on the fifth floor of the Student Center]," he said.

Because of these prolonged periods of high demand, the Andrew File System which manages Athena files has suffered in performance, Jackson said. Thus, AFS will be formally shut down once every week to improve system performance.

"We're trying to do preventive, rather than restorative, maintenance," Jackson said.

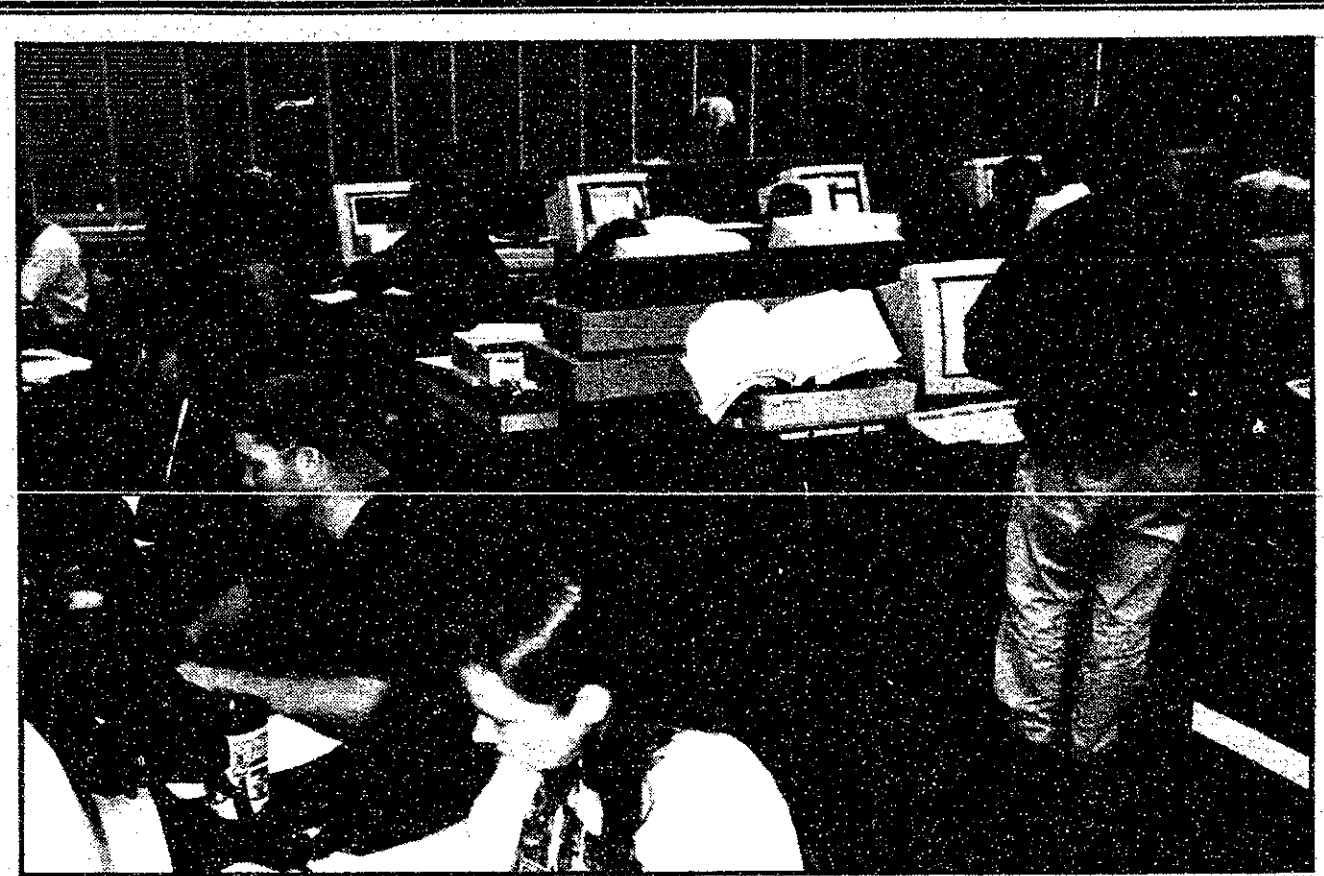
The 20-minute procedure is scheduled at 6 a.m. Sundays, one of Athena's lowest usage periods. People will be able to work with files they have accessed before the restart, but they will not be able to access additional files during the restart.

Software limited on computers

While the addition of computers such as Sun Sparc stations and Decstation 5000s in late summer have increased speed and quality of computing, much of the access problem remains unsolved.

Some commercial software packages are not available for all

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SHARON N. YOUNG PONG—THE TECH

Busy Athena clusters are a common sight across campus. Athena usage has doubled in the last three years.

Students Confront Urban Crime

Some Disturbed by Four, On-campus Armed Robberies Last Week.

By A. Arif Husain

The four armed robberies reported on campus last week have evoked mixed feelings from students. While many fear for their

safety, others simply accept them as part of life in an urban environment.

The four robberies equals the total number of robberies reported to Campus Police last year.

"Living in Boston, I don't really think about it all that much," said Emily C. Brown '96, who lives off-campus. "I just consider it a part of life here."

"I am not really afraid of [urban crime]," said Jonathan M. Morse '96 of Chi Phi. "It hasn't been something that I've really thought to affect me."

Other students, however, were more disturbed by these crimes. With two incidents occurring along Amherst Alley, a frequent passage for most West Campus residents, this recent streak has hit home for many.

"The campus is supposed to be a safe place," said Kristin Pierson '97.

"You can expect [crime] in a city, but here it's unexpected."

Despite increased patrolling by Campus Police and Cambridge police along the perimeter areas of the campus, many students still feel unprotected.

"I feel safer off-campus now than I do on-campus," said Louise L. Wells '96, a resident of an off-campus independent living group. "I don't feel so safe getting there, but once I'm off [campus] I feel fine."

Anne T. Heibel '96, a Baker House resident, questioned the security of her dormitory. "It just seems like any random person can walk in," she said, "and the people at the desk don't really watch them."

One student felt the responsibility of personal safety should be up to each individual. "I don't think the

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Weekend Honors Scholar Athletes

By Ann Ames
SPORTS EDITOR

The stands of Steinbrenner Stadium were filled Saturday as 1,200 fans cheered MIT to a 43-7 win against Nichols College of Dudley, Mass. in its first formal homecoming football game.

Homecoming, however, went beyond the game to celebrate the theme "Mind and Muscle . . . MIT Salutes Scholar Athletes."

Past recipients of the GTE CoSida Academic All-American award or an NCAA Postgraduate Scholarship returned from all over the world to participate in a halftime ceremony in their honor. With a total of 84 honorees, MIT has received more awards than any other school, said Theresa Joyce, project manager of Alumni/ae Activities. Twenty-three of these distinguished athletes were present at Saturday's festivities.

Homecoming weekend also provided a forum for promoting athletics at MIT, which generally do not

receive the recognition they deserve, homecoming organizers said.

It is "good to see how many people have gotten awards. The athletic program here is really underrated," said Stephanie Ragucci '91, recipient of a GTE award in 1991 for her skill on the softball field. She also credited the athletic department's sports information office for its work. "If not for them, we wouldn't have these awards," she continued.

Karen K. Gleason '82, who was awarded an NCAA scholarship in 1982 for swimming, agreed. "Sports are a great part of MIT. The level of participation is much higher here than at other schools, such as Princeton, where they have a highly-ranked football team," she said.

Representatives of the Alumni Office were pleased with the outcome of their months of effort. Although the general alumni response was not as great as had been hoped, Joyce felt that this is a good beginning to what will hope-

fully become an MIT tradition.

"The purpose of this event was to get people back to campus to see friends they wouldn't see otherwise," said Diana Strange, senior associate director of Alumni Activities.

Indeed, many alumni at the game said they enjoyed themselves and that they would definitely come to future homecomings.

"I'm very excited about this. I

Homecoming, Page 17

Frosh Evaluations Improve Feedback

By Todd J. Schwartzfarb

As part of an effort to enhance communication between freshmen, their instructors, and their faculty advisers, a new experimental evaluation form is being used for selected freshman core subjects.

The form is used in Introduction to Solid-State Chemistry (3.091),

Principles of Chemical Science (5.11), Introduction to Biology (7.012), Physics I (8.01), and Calculus I (18.01).

According to Travis R. Merritt, associate dean for undergraduate academic affairs, the standard evaluation form has historically been plagued by two problems. First, its routing process from student to instructor and then to adviser has been too slow in generating communication between students and instructors. Second, the form has been unsuccessful in eliciting meaningful exchanges between students and instructors.

In order to correct these problems, the new experimental form has been designed to produce a quicker turn-around, Merritt said.

Using the new form, students comment about the class only after the instructors evaluate their performance. This allows students to get an immediate appraisal of their work and requires that the instructor know something about each student.

Another important change was the addition of items by which students and instructors ranked the students' performance from high to low. Items included a grasp of basic ideas, correlation of grades to understanding, enjoyment of the subject, and the amount of home-

work. The experimental forms have several advantages over the standard forms, according to Merritt. "The experimental forms are more explicit. They urge students to talk more analytically [about] their opinions of the course," he said. "In addition, the new routing process is quicker and allows for specific exchange of views between students and instructors."

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YUEH Z. LEE—THE TECH

A crew team rows in an MIT shell at the Head of the Charles Regatta on Sunday.

INSIDE

- MIT Symphony has technical problems, but performs with passion. *Page 6*
- Aardvark orchestra plays concert for new album. *Page 6*
- BSO, Ozawa struggle with Berlioz. *Page 7*

WORLD & NATION

Clinton Embraces Compromise Proposed by Aristide Opponents

LOS ANGELES TIMES

WASHINGTON

President Clinton embraced a compromise advanced by political opponents of Haitian President Jean-Bertrand Aristide Monday as U.S., U.N. and other mediators searched for ways to resolve the island's leadership crisis without more violence and assassinations.

In the Haitian capital, U.N. envoy Dante Caputo appealed to former President Carter and other out-of-office elected leaders from the Western Hemisphere to congregate in Port-au-Prince this week to act as high-level human rights monitors whose presence might discourage political killings and offer increased safety to parliamentarians and Aristide's supporters.

Aristide, who insists that he intends to return to Haiti Saturday under the terms of a tattered peace plan signed last July, will address the U.N. General Assembly Thursday to appeal for continued international support, U.N. officials announced in New York.

Clinton, talking to reporters after meeting Egyptian President Hosni Mubarak, said his hopes for a settlement were raised by a proposal advanced this weekend by a group of Haitian legislators who previously had opposed Aristide's return.

The 11-point plan calls for the former president to regain his office provided that he broaden his government to include some political opponents and Parliament passes legislation assuring coup leaders that they will not be punished.

DNA Test May Let Man Go Free

THE WASHINGTON POST

A DNA test raises serious questions about the guilt of a mentally retarded man who is sentenced to die in Virginia's electric chair for raping and killing a Culpeper woman in 1982, state officials acknowledged Monday.

The news ultimately could result in the release of Earl Washington Jr., 34, who was convicted based on a confession that defense lawyers maintain was coerced because of his limited intelligence.

Attorney General Stephen D. Rosenthal said the most sophisticated DNA test was not conducted because too little sperm had been preserved well enough for examination. But another genetic test, looking for more general traits, yielded mixed results and so Washington cannot yet be eliminated as a suspect, he said.

"The test threw us a curveball," Rosenthal said. "It neither established his innocence, nor did it rule him out as a perpetrator."

Despite calls from Washington's supporters for his immediate release, the inmate will remain on death row at the Mecklenburg Correctional Center pending a review by Gov. L. Douglas Wilder and further tests, Rosenthal said.

The development is the latest in a case that has generated national debate about the mentally retarded and capital punishment. Medical tests have indicated that Washington has the mentality of a 10-year-old and an IQ of 69.

Scientists Report Discovery Of Co-Receptor Used by AIDS Virus

NEWSDAY

Discovery of a natural molecule that the AIDS virus uses like a trapdoor to invade white blood cells was reported Monday by French researchers, who hope it will lead to vaccines or treatments for AIDS.

According to a report released by the Pasteur Institute at a news conference in Paris, virologist Ara Hovanessian's research team isolated a co-receptor that the AIDS virus uses in tandem with the well-known CD4 receptor.

The CD4 cells — white blood cells bearing CD4 surface molecules — are the major target of the AIDS virus. It has been known that the virus needs to find CD4 molecules so it can anchor itself to blood cells. But it was not known what happens next, exactly how the virus worms its way into the cell to cause disease. Hovanessian's find — a molecule called CD26 — apparently answers that question. It is an enzyme that opens a portal so the virus can slip inside.

Virologist Max Essex, head of the Harvard AIDS Institute, in Boston, said the French discovery "sounds both interesting and important. It's been known by everyone for a long time that CD4 was necessary, but not sufficient," for the AIDS virus to infect cells. "But no one had come up with a clear reason why," Essex said.

WEATHER

Wet, windy weather possible

By Michael C. Morgan

STAFF METEOROLOGIST

Cool high pressure over northern New England brought an abrupt end to our unseasonably mild weather yesterday. With the high to our north, our winds will be predominately onshore — keeping temperatures down (the ocean to our east is fairly cool) and making it damp. A developing cyclone to our south will move north and east from the Carolinas. Increasing easterly winds and moderate to heavy rains associated with the cyclone are anticipated to graze portions of eastern New England on Wednesday.

Today. Increasing clouds and cool. High 50°F (10°C). Winds east 7-14 mph (11-22 kph).

Tonight. Cloudy with areas of drizzles and light rain developing. Winds northeast 10-15 mph (16-24 kph). Low 44°F (7°C).

Wednesday. Cloudy, cool, and raw, with increasing east to northeasterly winds. Winds east-northeast 15-30 mph (24-48 kph). Occasional rain and rain showers. High 47-51°F (8-10°C). Low 44°F (7°C).

Thursday. Cloudy with a few showers. High 56°F (13°C). Low around 40°F (5°C).

Somali Clan Fighting Erupts, Undermining Peace Talks

By John Lancaster

THE WASHINGTON POST

MOGADISHU, SOMALIA

Somalia's worst inter-clan fighting in seven months erupted here Monday, undercutting U.N.-sponsored peace talks and posing a fresh challenge to the growing U.S. combat presence in the city.

Mogadishu reverberated with sporadic small arms and heavy-machine-gun fire and the ear-splitting bang of rocket-propelled grenades. The fighting, which involved four separate clashes, continued this evening. It was the first major breach in Mogadishu of an unsteady truce arranged last March in a reconciliation agreement among Somalia's clan militias.

The violence began Monday morning when the militia of Mohamed Farrah Aidid clashed with that of his archrival, Mohamed Ali Mahdi, along the front between them that divides the city. Several thousand of Mahdi's Abgal subclan had assembled in the territory of Aided's Habr Gedir subclan for a "peace march" — a move Aidid denounced as provocative.

By early afternoon, fighting had spread to three other areas, including the Medina neighborhood, near the main U.N. compound, and the area around a key traffic circle, known as K-4. Reporters witnessed three explosions from the roof of their hotel in the vicinity of the circle.

United Nations combat troops and their American partners did not intervene in the fighting and a U.N. military spokesman said late Monday afternoon that the emphasis was still on "political dialogue." American Cobra attack helicopters circled above this morning's fighting at a safe altitude.

By Monday afternoon, however, the helicopters were more active, chugging low over the traffic circle

and at one point dropping a yellow smoke grenade in an apparent effort to mark a Somali gun position just behind the journalists' hotel. Around 4 p.m., one of the pilots reported seeing small arms and a rocket-propelled grenade fired at his helicopter, according to the U.N. military spokesman here, New Zealand army Capt. Tim McDavitt.

Although the helicopters never fired, their aggressive posture was striking after several weeks in which U.S. forces have pulled back from offensive operations following the deaths of 18 American servicemen on Oct. 3 and 4. U.S. military officers have said they fear that if factional fighting spins out of control, their troops could once more be forced to take sides, jeopardizing diplomatic efforts to reconcile rival subclans and spawning a new cycle of violence.

No accurate casualty figures were available Monday, in part because Western reporters were trapped in their hotel by the fighting and could not visit local hospitals. McDavitt said he knew of 45 wounded Somalis taken to two U.N. hospitals and a charity clinic.

The broad political significance of the renewed fighting was "difficult to categorize," said McDavitt, who was interviewed by journalists via satellite telephone from the U.N. compound two miles away. Some of the violence appeared to be opportunistic, as thugs took advantage of the chaos to loot property and settle scores. But most of the fighting appeared to involve supporters of Mahdi and Aidid, the two main contenders for control of the capital.

"There's the use of small arms and heavy-machine-gun fire but at times it appears quite sporadic," said McDavitt. "In terms of an effect on a cease-fire between the two clans, it's really just a matter of

wait and see."

For the last several days, the senior U.N. envoy here, retired U.S. admiral Jonathan Howe, had worked frantically to head off the peace march, which grew out of a U.N.-sponsored peace conference earlier this month in north Mogadishu that Aided had boycotted. Spokesmen for Aidid's political organization, the Somali National Alliance, had warned that Mahdi supporters who crossed the so-called "green line" into Aidid's stronghold, south Mogadishu, could meet armed resistance.

Once in south Mogadishu, the marchers were supposed to assemble at an amphitheater in an area of derelict government buildings and cultural sites near Mogadishu's port. It was unclear how many marchers turned out, although TV crews who ventured into the neighborhood brought back footage of several hundred and possibly more gathering in a plaza above the amphitheater.

Aidid supporters Monday morning set up roadblocks along the green line and took up firing positions behind walls and in the upper floors of empty buildings. The shooting began even before the rally was to begin at 9 a.m., scattering the crowd and killing at least one Somali, according to Judy Keen, a reporter for USA Today who witnessed the episode from a Pakistani peacekeeping post adjacent to the amphitheater. Video footage showed Aided fighters firing rocket-propelled grenades at Mahdi positions across the green line.

Despite the sometimes intense gunfire, Somalis in the area appeared to pay little attention so long as the fire was not directed at them. Even as reporters cowered in their hotel's hallways, wearing helmets and body armor, a tea shop across the street was open for business.

Ukraine Vows to Cut Nuclear Arsenal, But Doesn't Say When

By Saul Friedman

NEWSDAY

KIEV, UKRAINE

Promising the carrots of economic aid and a possible summit with President Clinton, Secretary of State Warren Christopher won a pledge from Ukraine's leaders Monday to give up the long-range nuclear weapons deployed here by the former Soviet Union. But they didn't say when.

Nevertheless, Ukraine and the United States Monday night signed an "umbrella agreement" that State Department officials said could lead to the removal of the weapons. The agreement calls for dismantling the 130 SS-19 missiles, among Ukraine's oldest weapons. Washington will make available \$177 million in funds to help pay for the dismantling, along with \$153 million in economic aid.

But Ukraine had already begun to dismantle these missiles, and Monday's agreement was not a commitment to give up the rest of the arsenal that has made Ukraine the third largest nuclear power behind the United States and Russia, each with about 8,000 warheads.

U.S. officials added, however, that Ukrainian leaders privately indicated they would end insistence on remaining a nuclear power if Washington provided compensation for the weapons and security guarantees against possible Russian expansion.

Ukrainian leaders have pointed to a combination of Russian instability and expansionism to explain

"I don't see a possibility of our security if we do not have nuclear weapons."

Stephan Khmara

their reluctance to become a non-nuclear power.

In the weeks leading up to Christopher's trip, Ukraine's government and parliamentary leaders had insisted that it would not give up all of its nuclear arsenal, which totals 176 missiles, holding 1,240 warheads, plus 42 bombers carrying 596 cruise missiles or bombs. Although they remain, for now, under Russian control and the Cold War is over, most of them are targeted on the United States.

But Christopher, struggling to make the best of the situation, stressed at a news conference that President Leonid Kravchuk had given him unambiguous personal assurances that Ukraine intended to abide by a 1992 agreement, calling for his country to dismantle the weapons and ship them back to Russia — although he didn't say when.

The secretary also reported that Kravchuk Monday had sent to Parliament the 1991 Strategic Arms Reduction Treaty, or START, as well as a recommendation to join the international 1968 Nuclear Non-Proliferation Treaty, as a non-nuclear state.

But Dmytro Pavlychko, chairman of the Parliament's foreign relations committee, told reporters after the meeting with Christopher:

"We would keep our 46 SS-24s for seven years, 10 years or 20 years." Valentyn Lemish, chairman of the defense committee agreed. And Stephan Khmara, head of the Ukraine Conservative Republican Party, said, "I don't see a possibility of our security if we do not have nuclear weapons."

And although the legislators said the Parliament, called the Rada, might approve START, they saw no chance of joining the Nuclear Non-Proliferation Treaty.

"We would be in one moment a non-nuclear nation," Pavlychko said. "Events in Russia are developing in a very dangerous direction."

As for Kravchuk's private promise, he has said repeatedly in the past three years that Ukraine had no nuclear ambitions. But he has cited fears of Russia and has blamed Parliament, playing both sides and spinning out a delaying game.

One senior U.S. official suggested the delay had a financial objective.

Foreign Minister Anatoly Zlenko noted that the Ukrainian economy, suffering from 100 percent inflation per month, is near collapse. He appealed to the West for aid in getting rid of the nuclear weapons, estimating the process would cost \$2.8 billion.

Experiment Shows Possibility Of Cloning Human Beings

By Robert Cooke
NEWSDAY

The first clear evidence that human embryos can be split into multiple identical copies — and someday, perhaps, be grown into adults — was released recently by a research team in Washington.

The experiments were done on embryos that could not have survived but did live long enough to show that embryo-splitting techniques can work. The eventual goal, researchers say, is to expand the number of embryos that can be implanted in women who produce too few viable eggs.

"This showed the feasibility that somewhere, way down the road — if we are technically able and it's ethically acceptable to do this — there is the possibility it (cloning) could work," embryologist Jerry Hall explained Sunday.

Hall's experiment, while falling far short of actually cloning humans, shows that many of the technologies being used to clone

farm animals can probably be applied to humans.

The achievement, announced at a recent meeting of fertility experts, will be published in this week's issue of the journal *Science*, Hall said. The work was done at the George Washington University Medical Center in Washington.

The researchers experimented on 17 embryos that would not have survived because they had been fertilized by excess sperm. The researchers extracted live cells from the embryos and kept 48 cloned embryos growing briefly in culture dishes. The separated clones are theoretically capable of growing into identical adults, if normal.

That such an experiment was attempted is no surprise. Work in farm animals is now so advanced — with half a dozen adult cows cloned from a single embryo — that human experiments were sure to follow.

"The idea of cloning humans is a distasteful idea. However, it is justifiable where the woman may be able

to provide only one or two embryos, if she has a very limited supply," said Dr. Gary Hodgen, president of the Jones Institute for Reproductive Medicine at the Eastern Virginia Medical School in Norfolk. "So on a very qualified scale, I think this is ethically acceptable and scientifically important."

In contrast, he said, "it would be unacceptable if it became a method to purposely propagate a family of individuals, all of whom were identical twins, triplets, quadruplets and so on. If this was done because someone thinks it's a funny and attractive thing to do, I would want it recognized" as ethically unsavory.

Dr. Brett Mellinger, head of the center for reproduction at Long Island Jewish Medical Center in New York, said that "technology always moves faster than ethics. It brings up really important issues, a lot of Orwellian issues. It's important to bring the issues to national debate."

Liberals Win Majority in Canada

By Mary Williams Walsh and Craig Turner
LOS ANGELES TIMES

TORONTO

Canadians went to the polls Monday and elected a majority Liberal Party government, to be led by Jean Chretien, a 59-year-old French-speaker from Quebec.

At the end of a campaign season characterized by greater partisan, linguistic and regional division than this country has known in decades, voters here delivered a scathing rebuke to the Progressive Conservative Party, which has governed since 1984.

With the polls still open at 8 p.m. PDT in British Columbia, it was unclear whether Prime Minister Kim Campbell would manage to retain her own seat in Vancouver, a seat she won in 1988 by a negligible, 269-vote margin. What was

overwhelmingly clear, though, was that the voters had rejected Campbell's party and its track record of conservative economics and free international trade.

Chretien, a small-town lawyer who speaks English with a pronounced French-Canadian accent, stands for a centrist set of policies including job creation through public works, gentle budget cuts and a looser monetary policy.

Chretien also promised during his campaign to work for revisions in the North American Free Trade Agreement, although the changes he seeks are not likely to be extensive. He has been criticized throughout the campaign season for failing to present a detailed, coherent economic policy, and many analysts believe his party was elected simply because voters were angry with the Tories

and frightened of everything else.

Although he is from a province that regularly threatens to secede, Chretien is a strong federalist who has openly ridiculed those who would make Quebec a separate state.

Within French-speaking Quebec, the Liberals lost to the separatist Bloc Quebecois. But they swept the four Atlantic provinces and the huge central province of Ontario.

What was unclear late Monday as Western Canadians continued to vote was what kind of opposition Chretien's Liberals would face in the next Parliament.

In Canadian politics, the party with the second-largest number of seats has the right to become "Her Majesty's loyal opposition," an official status that brings an official residence, government financing, a research staff and other perks.

Hopes Run High in West Bank Village

THE WASHINGTON POST

BEITA, OCCUPIED WEST BANK

In the center of this remote village, the scent of fresh-baked bread rises from clay ovens. Roosters strut about, then scramble under the hooves of donkeys. Schoolchildren race down narrow alleys.

It seems a perfect Palestinian rural tableau, with freshly turned red earth in the valley, boxy concrete houses clinging to the hillside, women in black shuttling amid the shadows, men crammed into taxis returning from their day's labor.

But Beita is a village of scars — of lives lost, homes blown up, worlds turned upside down.

After a violent clash with Jewish settlers in 1988, Beita was transformed into a hotbed of the Palestinian uprising, or intifada. Eight youths have been killed in violent confrontations with the Israeli army since then; the last death was only four and a half months ago.

Now, in the wake of the accord between Israel and the Palestine Liberation Organization, Beita is a village waiting for deliverance.

In a series of recent interviews, the villagers seemed to be looking forward to the creation of a Palestinian government, rather than back toward the years of the uprising.

One view remains constant: All said they want Israeli troops to leave, and that they remain suspicious of Jewish settlements and settlers. Most said they would like as little contact with Israelis as possible.

Germany Investigates Agency Involved In Blood Scandal

THE WASHINGTON POST

BERLIN

Facing a growing AIDS scandal, the German government has launched a criminal investigation into a federal agency that admitted it kept quiet for years about suspicions that blood supplies used for transfusions in 1985 and earlier were contaminated with HIV-blood supplies that infected more than 2,300 people.

Described as the worst medical disaster in Germany's postwar history, the situation here is being compared to the AIDS scandal in France, which involved the deaths of an estimated 1,200 hemophiliacs and the convictions last year of three top health officials who allowed blood they knew was tainted to be used in transfusions in 1985. They were convicted of fraud and criminal negligence.

German authorities say blood supplies are now safe, but hundreds of deaths are being attributed to transfusions of contaminated blood in past years. And several government officials have been fired.

More than 2,300 people in Germany were infected with HIV through blood transfusions, mostly in 1985 or earlier, the Federal Health Office reported Friday. About 400 have died, and the number is growing at the rate of about one a week, according to one report.

"This is really the biggest medical scandal in the history of the federal republic," Klaus Kirschner, a member of the German Parliament and health expert for the opposition Social Democrats, said in an interview. "I fear its full dimensions are still not known."

The scandal erupted earlier this month when Health Minister Horst Seehofer disclosed that the semiautonomous Federal Health Office in Berlin had kept quiet for nine years about 373 cases, most dating to 1985 or earlier, in which people were suspected to have contracted the AIDS virus through donated blood.

Did you know you could become a **trustee** of MIT? You could wield incredible power—I bet your advisor would have to call you "Your Grand Exalted Trusteeship" and you'd get your very own secretary...well, probably not. But there's an informal (FREE!!) supper of pizza, salad and brownies **tonight** (Tues. Oct. 26) at 6 in Lobby 13 where you can find out all about it, and maybe even be nominated.

BOO! The Ashdown House Social Committee and the GSC are having a *Halloween Costume Party*, Saturday, Oct. 30, 21:00 at Ashdown House, on the corner of Mass. Ave. and Mem. Drive. Dancing! Free refreshments! Things even scarier than your thesis! Prizes (\$50, \$25 and \$25) for Best Costume, so go all out!

Graduate Student Council

Student Escort & Patrol Service Organizational Meeting
Tuesday, Nov. 9 at 18:00 in the GSC office, 50-220

☞ **GSC Ice Skating**, Friday November 5, Free.
☞ **BSO Open Rehearsal**, Wed. Nov. 10, 19:30. Tickets are \$5, available at the GSC office, 50-220, from 9:00 Wed. Oct. 29. Contact the GSC office, 3-2195 or Joe, 5-8114 for more information.

Housing and Community Affairs 17:30 Monday Nov. 8 in GSC office, 50-220. Safety, health care, housing, transportation, and pizza-free dinner.

GSC General Meeting 18:00 Wednesday Nov. 17 in GSC office, 50-220. Various topics, and dinner (probably pizza).

To be placed on a mailing list to receive email about upcoming GSC meetings and events, send email to gsc-request@mit.edu.

OPINION

Use of Death Penalty Solves Nothing

By Daniel C. Stevenson
COLUMNIST

In a column last week, ["Enforcement of Death Penalty Required", Oct. 22] Michael K. Chung presented a slew of callous, confusing, and above all hypocritical arguments for a strong enforcement of the barbaric practice of capital punishment. Chung's line of reasoning demonstrated an extraordinary lack of respect for human life and dignity, the very same values he was supposedly so strenuously trying to defend.

Archaic and inhumane moral codes espousing creeds such as "an eye for an eye, a tooth for a tooth" were manipulated to provide justification for what is really a heinous criminal act, all the more repugnant because it is government supported. Those who argue for a strong death penalty should realize that two wrongs do not ever make a right. Killing one person as punishment for the death of another is in my mind an unconscionable abuse of the democratic process and a savage expression of vicious primal instincts. The death penalty is the most naive and contemptible manner of law enforcement ever created by a supposedly civilized nation.

Chung argued that people convicted of serious crimes take up valuable prison space, and it would be more humane and agreeable to them if they were expeditiously executed. "Is it really worth it to keep these people there [in prison]?" he asked. What kind of an elitist attitude relegates criminals, who are still human beings like the rest of us, to become "those people," not even worthy of our consideration? Committing a violent crime does not make someone any less of a human being; in fact, such violence is an unfortunate trademark of the human race.

Chung further implies that a criminal might rather choose initial execution over a long, harsh life in prison. This argument screams out with the obvious: any person in prison, no matter how poor the conditions, and no matter how hard it is to readjust after release or acquittal, is alive. It would probably be difficult to rebuild a life after a lengthy prison term, but it is impossible to rebuild a life after execution. Death is irrevocable. No capital punishment policy can be 100 percent foolproof, and each time an innocent victim is

killed by the "judicial" system, the greatest crime of all is committed.

Chung and other advocates of a strong death penalty argue that the punishment must fit the crime, that criminals should be made to pay for their wrongdoing. I agree with this philosophy to the point of fines, repossession, and incarceration, but not to the malicious level of state sponsored murder. It is just as hypocritical and cruel to punish those convicted of rape and assault by raping and beating them as it is to kill murderers. Lives cannot be traded like commodities and added and subtracted like grains of sand as we do with the punishments of fines and prison terms. It is

By punishing McHugh and other murderers with death, we as a society would be implicitly condoning their violent way of life. If we desire, as Chung agrees, to set an example for criminals, we must demonstrate through our own actions that the taking of a life is not now, and will never be, a solution to any problem.

An inconsiderate and undemocratic attitude is shown later in the column when Chung discusses the story of Gerald McCra, who is accused of murdering his parents and sister. Although the boy has not yet been tried, Chung presumes McCra's guilt and implies that any discussion in court of mitigating

Just because people commit atrocious deeds does not mean we must stoop to their level in handing out retribution. By punishing McHugh and other murderers with death, we as a society would be implicitly condoning their violent way of life.

foolish and morally blasphemous to assign a discrete amount to something of immeasurable and deeply personal worth. The value we place on a human life has long been a murky issue. Our government pays people to kill our enemies everyday, with questionable motives, and then turns around and severely punishes a murderer, possibly to the point of taking his or her life. What kind of system is this, that both encourages and punishes, and then institutionalizes, murder?

In his column, Chung brought up the case of Shon McHugh as an example of why the death penalty must be more vigorously enforced. Like Chung, I too am disgusted with McHugh. I think his murder of Yngve K. Raustein '94 was one of the most awful things that anyone could ever do, and his thoughtless, arrogant attitude offends me to no end. However, I would be no better a person than McHugh if I advocated inflicting the same horrible punishment on him. In these cases, we must force ourselves to avoid the simple knee-jerk reaction and instead to take the moral high ground, to act like the civilized society that we claim to be. Just because people commit atrocious deeds does not mean we must stoop to their level in handing out retri-

medical or family circumstances would be a waste of time with the callous statement, "it seems silly to pursue such arguments." One of the basic tenets of our democracy is the concept of people being innocent until proven guilty. At the same time, we are ethically and constitutionally bound to grant an impartial and honest trial by jury to anyone charged with a crime. I find it alarming and personally offensive that advocacy of the death penalty has extended to arguments for presumption of guilt before trial and wishes for a bypass of the entire judicial system, going straight from arrest to the electric chair. In any situation, I would rather allow a guilty person to walk free than for an innocent victim to be murdered by the government.

Chung writes, "It is unfair for a person to take someone's life without just cause." I wholeheartedly agree with this policy, and believe it applies equally to murderers and those who would murder them in turn. It is important to set an example for criminals, but by enforcing the death penalty, society is being hypocritical and implicitly accepting their violent motives. Instead, we must show that human life is sacred and should not be destroyed, especially by government policy.



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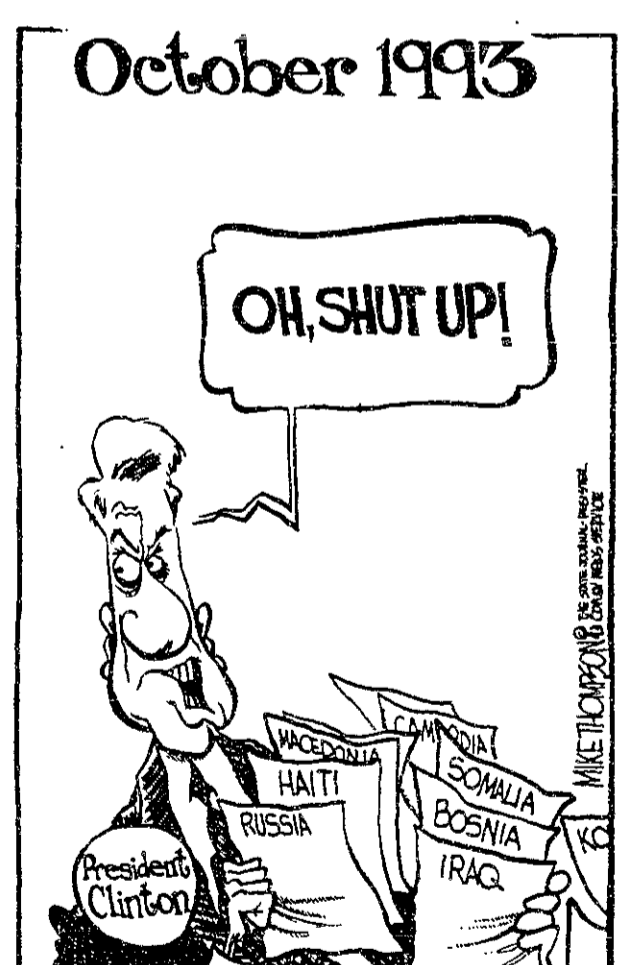
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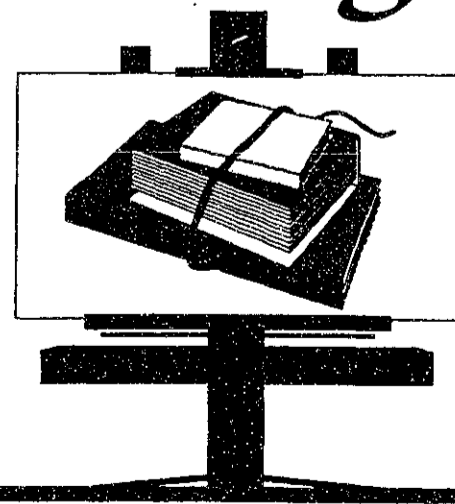
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THE ARTS

MIT Symphony plays Mozart's drama with wit

MIT SYMPHONY ORCHESTRA

Conducted by David Epstein.
Eran Egozy, violin solo.
Works by Mozart, Nielsen, and Dvorák.
Kresge Auditorium.
Oct. 23.

By Thomas Chen
STAFF REPORTER

MIT's Symphony Orchestra sprang into last action last Saturday with the Overture to Mozart's *The Impresario*. The violin tone was at times edgy and uneven and the overall violin sound seemed much too big for Mozart's music. But, such lapses into harshness apart, Mozart's drama-in-music was wittily communicated by David Epstein and his musicians.

Carl Nielsen (1865-1931) was a resourceful and original composer, but an inadequately recognized one. Nielsen ingeniously incorporated the folk music of his homeland, Denmark into his compositions exemplified in his *Clarinet Concerto*. After the imitative entry on a folk-ish tune, the clarinet seems to muse at the song-like passing melodies, integrating them with fast-fingered passagework.

Israeli soloist Eran Egozy did not seem to have any difficulties with Nielsen's demanding score, producing a very round and forceful tone when required — it was always beautiful. His glorious tone was wonderfully displayed in the

very soulful middle section of the piece. Although Egozy did not play from memory, his versatility as a musician gave many of the faster passages an improvisatory character and made the concerto a delight to hear.

Dvorák was also one to draw on his national heritage in his work. Throughout his *Eighth Symphony*, Dvorák brilliantly switches moods from measure to measure, highlighting the drama of the music. Epstein certainly had this in mind as he directed a very passionate performance. Fine though Epstein's musical interpretation might have been, however, I again found the violin tone deficient. The violinists were unable to produce the reliable, homogenous sound demanded for Dvorak's oft-lush orchestration. On the whole, the sound was fierce, and when it was not fierce, it was just out-of-tune. It would help if the violinists would follow the bowings of their concertmaster, George Ogata.

Although the violas and cellos fared better than the violins, the winds consistently showed more poise. Except for a few (but understandable) wobbles from the horns, the winds played more like a chamber ensemble with a singular musical purpose. They were most effective in the slow movement.

Violin-foibles apart, the orchestra can be praised for their communication of passion in the music, bringing the concert to an emotional conclusion.

Aardvark exploits tonal options of orchestra jazz

AARDVARK JAZZ ORCHESTRA

First Congregational Church, Cambridge.
Oct. 23.

By Dave Fox
STAFF REPORTER

The Aardvark Jazz Orchestra, led by trumpeter and MIT lecturer Mark Harvey, is one of the most interesting groups on the Boston music scene. As befits the "orchestra" moniker, Aardvark is composed of no less than nineteen musicians (including Harvey), who play virtually all instruments ever associated with jazz music.

This gives Harvey as a composer immense flexibility in tonal options, which he exploits as fully as any big band composer ever has. Instead of the usual grouping of five saxes, four trombones, five trumpets, and a conventional rhythm section, Harvey has replaced the piano and several brass chairs with electric bass, french horn, and a dedicated hand drummer to produce a very exciting instrumentation. Coupled with Harvey's formidable composition skills, this makes for very exciting new music.

Saturday's concert was a CD release performance celebrating the release of Aardvark's first CD, *Aardvark Steps Out* (soon to be reviewed in this space). The concert was in two halves, with a short intermission. The first half consisted of pieces from the CD.

(Unfortunately I missed this part because of my folly of driving to the Harvard Square venue.) The second half featured the premier of Harvey's ambitious long work "Passages/Psalms II," inspired by contemporary social justice issues.

The piece opened with some hand drumming (on a conventional drum kit) by Harry Wellott. This drumming was joined by hand clapping, and "hand drumming" by John Funkhouser on the body of his upright bass. Richard Nelson added the first melodic strains to the piece with random jazz guitar licks. To add to the mood-setting effect, various horn players embellished the sound with whistles, key slaps, and other rhythmic sounds. To complete the introduction, Funkhouser bowed his bass in a duet with the guitar, producing a haunting groove effect and setting the stage for the entrance of the horns.

The horn entrance was subtle, with the three trumpets (muted) playing against Phil Scarff's soprano sax. The trombones and baritone sax played a counterpoint to the theme played by the trumpets. Scarff then played a soprano sax solo over the horns, in a somewhat understated fashion.

The overall effect of this section was rather muted and understated, but was completely changed by the simultaneous entrance

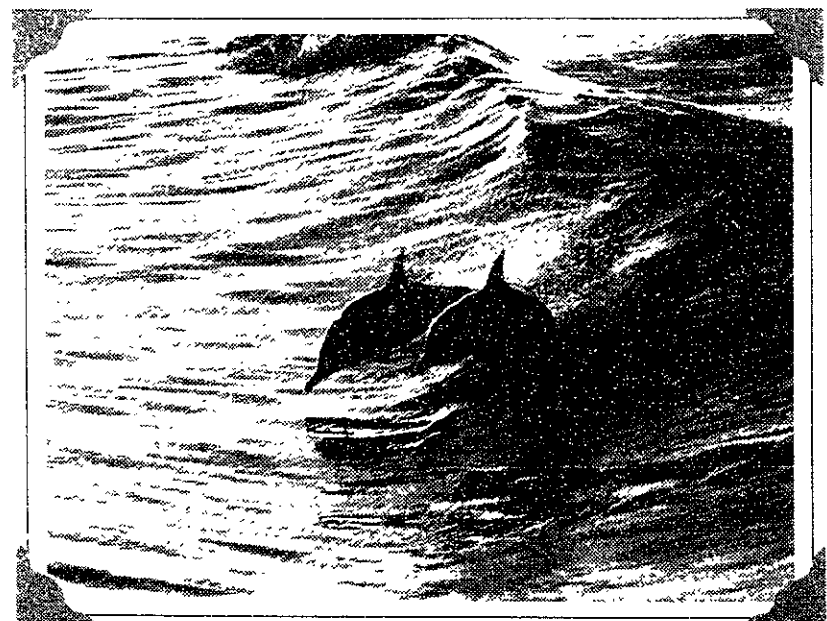
Aardvark, Page 7

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Ozawa struggles with Berlioz, but conducts with flair

BERLIOZ REQUIEM, OP. 5

Boston Symphony Orchestra.
Tanglewood Festival Chorus.
Seiji Ozawa conducting.
Oct. 22.

By Craig K. Chang
STAFF REPORTER

In front of the Boston Symphony Orchestra, Seiji Ozawa performs an elaborate dance routine. His every move expresses a grand sweep of motion, as the orchestra under his direction tries to respond to his silent crying, "More! More!"

Berlioz's huge *Requiem* was an adequate test of Ozawa's skills. The grand mass for the dead contains fury, triumph, and serenity in all their various shades. The music should evoke the contrasts between hushed prayer and outburst. The sheer impact of the *Last Judgment* should engage listeners, pulling them into the poetic portrayal of the fantastic occasion.

Ozawa, the BSO, and the Tanglewood Festival Chorus indeed had the power to blast the piece's powerful moments. With brass players situated throughout the hall, Berlioz's orchestration is like no other. Especially during the *Dies irae*, the sound of the orchestra towered above even the tall ceiling of Symphony Hall. Combined with the already tremendous orchestra and full chorus, the sheer magnitude of the extra brass players nearly overwhelmed.

But this wasn't all the huge ensemble was capable of. Ozawa has a gift for juxtaposing the huge with the delicate. As the audience listened with amazement at the sheer, sonic intensity, that energy dissolved into a vacuum to be transcended by the most delicate lines whispered by the strings and the woodwinds. Ozawa pulled off these sharp changes in character with complete repose.

What Friday's performance lacked, however, was a sense of unity. For all the confident energy the players were capable of, they

couldn't consolidate their intermittent flashes of energy throughout the ninety minutes of the program. Of course, moments of pure strength and equally beautiful moments of sonorous melody sparkled against the huge mess of players scattered everywhere, but the music never found a sense of wholeness. The pieces seemed impeccable enough, and each section seemed individual enough. But with the piece's great duration, each new sound and each new increase in volume disoriented the listener.

Even Vinson Cole's superbly phrased solo in the *Sanctus* arrived in a divine flash and disappeared into confusion, despite the magnificence of the rest of the movement. Perhaps individual, human voice was a relief from the unsure characters that the orchestra conveyed.

How many of these quips can be attributed to Berlioz's work will always remain subjective matter. Some find Berlioz's *Requiem* very difficult to interpret. Others like to point out

all of the harmonic discontinuities. And many others find his work disturbing, even at this point in the 20th century. (Many elderly members of the audience seemed on the verge of a stroke when the second brass orchestra blared their first note.) Nevertheless, how convincing each performance is will always depend on the musicians. Assuming the *Requiem* is entirely program music, the playing needs to spark the imagination of the audience. Perhaps Friday's performance failed in that sense.

But what the event had to offer was the unity of Ozawa's conducting verve. When he turned around and spread his arms out to the brass players on the second balcony, we realized the extreme attention to detail that makes Ozawa such a great conductor of Berlioz's work. Even without succeeding in the incredibly difficult task of piecing together Berlioz's wild imagination, the concert projected the strength and finesse of the musicians.

Aardvark performs on frontier of contemporary jazz

Aardvark, from Page 6

of all thirteen horns. This was very dramatic, and was further intensified by a musical duel between Bob Pilkington's trombone and Marshall Sealy's French horn. As this duel went on, the established groove dissolved completely, leading to a full-out free jazz section.

A bit of digression. Free jazz is the commonly accepted term for non-precomposed music. As one might imagine, this is difficult to coordinate between a few musicians, let alone nineteen. (Or, "Anyone can play free jazz, but few can make it sound good!") Aardvark succeeds admirably in this respect, which gives Harvey's compositions an almost unrivaled intensity. Because of virtuosity among Aardvark's members, the individual musicians know how to use their own instrument to best convey to the mood Harvey intends. Thus, far from being a collection of nineteen competing voices, Aardvark's free jazz represents simultaneous improvisation which melds together to produce some of the most intense and thought-provoking new music being played today.

The free jazz section dissolved into coloration drumming by Wellott, featuring moody cymbal playing. Over this, two flutes and the trombones played a chorale-sounding

line. The trumpets picked up this line, and Funkhouser played a bowed-bass solo line. This led to a bass trombone solo by Jeff Marsanskis, which was rather mournful. As Marsanskis wove a somber mood, Harvey picked up his trumpet and added some otherworldly, high-pitched half-valved effects, which resolved into a duet between the Harvey and Marsanskis.

After this, Peter Bloom played a wonderful unaccompanied bass flute solo. By running the sound through a two-octave doubler (an electronic effect), Bloom turned what is normally an unremarkable sound into a very arresting and dramatic solo. (As Bloom later told me, the bass flute is primarily heard on Jacques Cousteau programs when manta rays are featured, because the round, low tone implies slow and majestic movements.) Since he is primarily a flute player (and not a doubling saxophonist), he was able to play the unwieldy instrument with lightning speed to make an unforgettable jazz statement.

Near the end of the bass flute solo, Jeanne Snodgrass added a flugelhorn line. The flute dropped out, and Joel Springer added tenor sax to the flugelhorn line. After the addition of bari sax and trombone, the piece came to a momentary break, which was followed with a rather dirge-like line.

This led to an unaccompanied alto sax

solo by Arni Cheatham (who is one of the best saxophonists in Boston). This solo featured flawless technique and dramatic dynamic changes to weave a rather somber mood. As Cheatham continued playing, the upright bass, drums, and other horns entered one by one. Cheatham's solo grew in complexity, which much use of the altissimo range of the horn.

After all of the orchestra entered, there was another short break, which was followed by a rapid "hard bop" groove section featuring maniacal walking bass by Funkhouser. Brad Jones offered a nice bari sax solo, during which he pulled all the stops out. He used multiphonics and very high altissimo notes to great effect. The other horns entered under Jones' solo, and Jerry Edwards offered scat-style vocalizations, reminiscent of the African world-music standout Fela. This led to an intense trombone solo by Bob Pilkington. As he played his solo, the saxes played a line which began in harmony and expanded to harmony. The trumpets came in, and Pilkington concluded his solo. The piece ended on this rather subdued note.

To conclude the evening, Aardvark played "Freedom Song", which Harvey dedicated to the Nobel Peace Prize winners, Nelson Mandela and F.W. DeKlerk. The piece

began with a dramatic, quick bass trombone/bari sax vamp, to which the saxes added a nice counterpoint. The trumpets and trombones/french horns added their own counterpoint lines in turn, producing a pyramid effect.

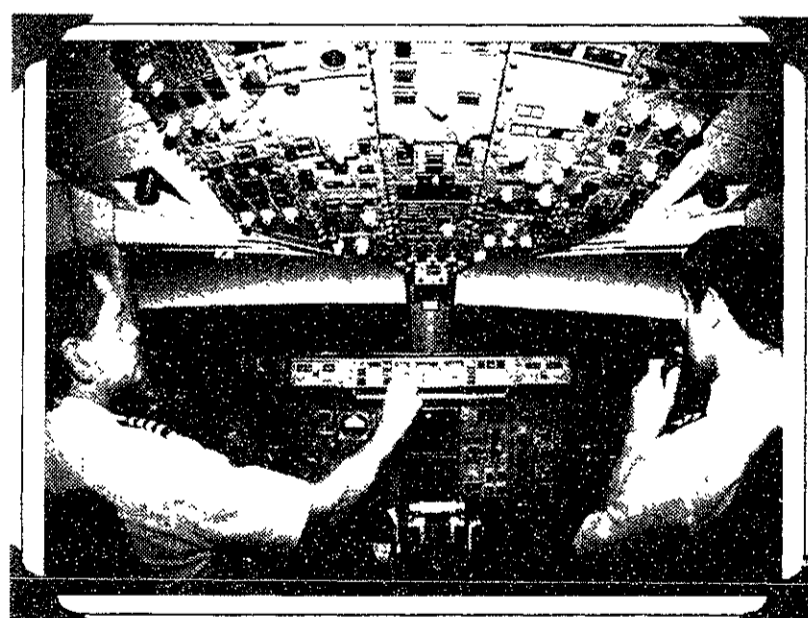
When the pyramid was completed, the sound dissolved into an infectious groove. The trumpets (including Harvey) played a sweet-sounding line above the groove. This led to a dramatic French horn solo by Sealy, who performed flawless improvisation on the difficult-to-play horn. This led to a reestablishment of the groove/trumpet melody to end the piece. The sound of this piece was rather African in nature, appropriate to Harvey's dedication.

Overall, the quality of this performance was exceptionally good. The sound in the small auditorium was quite good, with dynamic changes clearly discernable, and good balance. "Passages/Psalms II" is a major contemporary jazz statement, which should be recorded and which is deserving of a far wider audience than Saturday night's disappointing turnout. MIT is fortunate to be associated with a jazz composer as formidable as Mark Harvey. All serious jazz fans should hear Aardvark, as they are an important part of the activity at the frontiers of jazz music.

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CS FIRST BOSTON

Rudy's football story is overly sentimental, but inspiring

RUDY

*Starring Sean Austin and Ned Beatty.
Directed by David Anspaugh.
Written by Angelo Pizzo.
Music by Jerry Goldsmith.
Loews Cheri.*

By Patrick Mahoney
STAFF REPORTER

Dreams. We all have them. We all dream when we're little of being an Olympic runner, a World Champion ice-skater, or a pitcher in the Major Leagues. *Rudy*, a new release from Tristar pictures starring Sean Austin and Ned Beatty is about dreams. One poor boy's dream to go to Notre Dame and play football for the Irish.

The movie opens with Rudy Ruedicker playing football with his friends as a little boy. He wears a gold (Notre Dame) helmet. He says to his father that after high school he

is going to go to Notre Dame. Unfortunately everyone laughs at him, and tells him that he's dreaming. He holds onto his dream, even though everyone around him tells him he's a fool for thinking he can get in or afford Notre Dame.

Austin's performance in the film is tremendous. From the outset, we see him as a man driven by a single desire in life. Everything that he does focuses on this. From the first time that he states his goal until the climax of the movie, we believe him and want him to succeed.

Perhaps the most memorable scene, and the one that sums up the feeling of the movie the best is one where Rudy is sitting at the bus station about to leave for Notre Dame. His father walks up and they begin to talk about dreams — about how sometimes holding onto dreams that cannot come true can just cause pain to all the people around you who care for you. To this Rudy replies that all of his life people have told him what he can and cannot

do, and he always believed them, but that now he needed to believe in himself.

Ned Beatty plays the head groundskeeper at Notre Dame stadium. Soon after Rudy gets to South Bend, Ind. (home of Notre Dame) he seeks out Beatty and gets a job working in the stadium. Over time, the friendship between the two of them grow. It is Beatty who keeps Rudy from quitting and going home, even though he is not immediately accepted into Notre Dame and must instead enroll in a junior college.

All of the minor characters are well done also. We get the feeling that the team actually cares for this little 5-foot runt, who puts more effort into the team than all of the regular players. What adds a lot of clout to this movie is the role of the coach who transfers in from the Green Bay Packers. He's a really mean guy, and doesn't really care how hard Rudy plays because the fact remains that Rudy has no talent. In the end, when it would be a perfect time for him to play Rudy, he

still is the villain, and only after the team almost turns against him does he give in. This shows us how truly inspirational Rudy has been to the team. The movie is inspirational. It shows us that if you want something enough and are willing to work for it, it can come true.

The movie has a flaw or two. It is overly sentimental. Some of this is acceptable. It is a story with a happy ending, and happy ending have a tendency to grow sappy. Much of the sentimentality can be excused simply because of the fact that it is based on a true story. All of the characters are developed and there is plenty of substance to the film. I also give a thumbs up to the music score. It succeeds in setting the moments well throughout the film. Just the right amount of tension at just the right time.

Overall the movie is excellent. One of the best sports movies I've seen, right up there with *The Natural* and *Field of Dreams*. See it. It will make you happy.

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Japanese and Chinese Speaking Seniors: Interested in working in Tokyo or Hong Kong for Merrill Lynch? Send resume with 'ML/Asia' and fluency on back by November 5: Crimison & Brown, 1430 Mass. Ave., #1003, Cambridge, Mass. 02138. Questions? 617-868-0181.

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The Tech subscription rates: \$20 one year 3rd class mail (\$37 two years); \$55 one year 1st class mail (\$105 two years); \$52 one year air mail to Canada or Mexico or surface mail overseas; \$140 one year air mail overseas; \$10 one year MIT Mail (2 years \$18). Prepayment required.

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Date: Thursday, October 28, 1993
Place: Boston Marriott Cambridge
2 Cambridge Center
(Kendall Square)
Corner of Broadway and Third St.
Ballroom
Time: 7:00 to 9:00 p.m.
Refreshments will be served
Topic: General discussion of our firm and its work

Date: Thursday, November 4, 1993
Place: The Charles Hotel
1 Bennett Street
Cambridge
Rogers/Stratton Room
Time: 6:00 - 8:30 p.m.
Refreshments will be served
Topic: Discussion of our work in health care

McKinsey & Company, Inc. is interested in interviewing M.I.T. Ph.D. students, Postdocs, as well as M.S. students with at least 3 years work experience for full-time associate positions. Candidates should have an outstanding record of academic achievement, exceptional analytic and quantitative skills, strong communication skills—both written and verbal—and the ability to contribute collaboratively in a team environment.

Background literature on McKinsey will be available at the presentations and at the Office of Career Service and Preprofessional Advising. Information on how to apply for a position will be provided at the presentation, or you may contact:

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Software Not Offered For All Workstations

Athena, from Page 1

machines, resulting in higher demand for some machines. This is partly because the time and resources required to create new platforms often exceeds that which is available, Jackson said.

The operating system Unix also varies from machine to machine, so workstations do not offer the exact same services. Although this problem is relatively small, "It will get worse before it gets better," Jackson said.

Bugs like the "login disabled" message that frequently appear on Sun computers, also make it harder to find an Athena workstation. However, the message is supposed to last only seconds as the workstation does housekeeping duties, Jackson said.

Resnet will relieve dialup demand

Although dialup access offers only a fraction of the services a full-fledged Athena workstation, the dialup servers have also been "grossly overloaded," Jackson said. People can now login to an express dialup server, but the login time is usually limited to 15 minutes.

The network of undergraduate dormitories and living groups, Resnet, that will go into use this spring will relieve some of the problems with crowding at Athena clusters, Jackson said. Resnet will connect personal computers in dormitories to the rest of the Athena network.

"Resnet will help improve balance of supply and demand on Athena," Jackson said.

The majority of Resnet users will be able to run basic net-

work applications from computers in their dormitories. Information Systems will provide software for Macintosh and Windows owners to use electronic mail, Discuss, Zephyr, and other network services. This software will be much faster than comparable dialup programs and should relieve much of the strain on that system, Jackson said.

User priorities reemphasized

During this time of high demand, user priorities have been reemphasized to try to assure that people who need to use Athena can access it.

According to the Athena rules of use posted in all clusters, course-related work receives the highest priority. Personal productive work such as non-course-related text processing, electronic mail, and exploring Athena receives the next highest priority. Games and reading news groups and electronic bulletin boards are the lowest priority.

However, "Very few users have been found just playing games or reading peculiar [news] groups," Jackson said.

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Graduate Fellowship Applications

The Following Graduate Fellowship Applications for 1994-95 are available in the **Dean of Graduate School Office, Room 3-138**. Please Check the applications you are interested in for fellowship duration, conditions or appointment, stipend, tuition, and special allowances

Ford Foundation Predoctoral and Dissertation Fellowships for Minorities

For citizens or nationals of the United States who are members of the following designated groups: Native American Indians or Alaskan Natives (Eskimo or Aleut), Black/African Americans, Mexican Americans/Chicanos, Native Pacific Islanders (Micronesians or Polynesians), and Puerto Ricans. Applicants must not have completed, by the beginning of this fall term, more than 30 semester hours, 45 quarter hours, or equivalent, of graduate-level study. Scores from the GRE general test are required. **Application Deadline: November 5, 1993**

Howard Hughes Medical Institute Predoctoral Fellowships in Biological Sciences

For both U.S. citizens and foreign citizens. For students who are in their first year of graduate study. Applicants must have scores from the GRE general test. **Application Deadline: November 5, 1993**

National Science Foundation (NSF) Graduate Research Fellowships

For citizens or nationals of the United States or permanent resident aliens who are seniors or first-year graduate students. All applicants are expected to take the the GRE general test. In addition, all applicants should take a GRE subject test. **Application Deadline: November 5, 1993**

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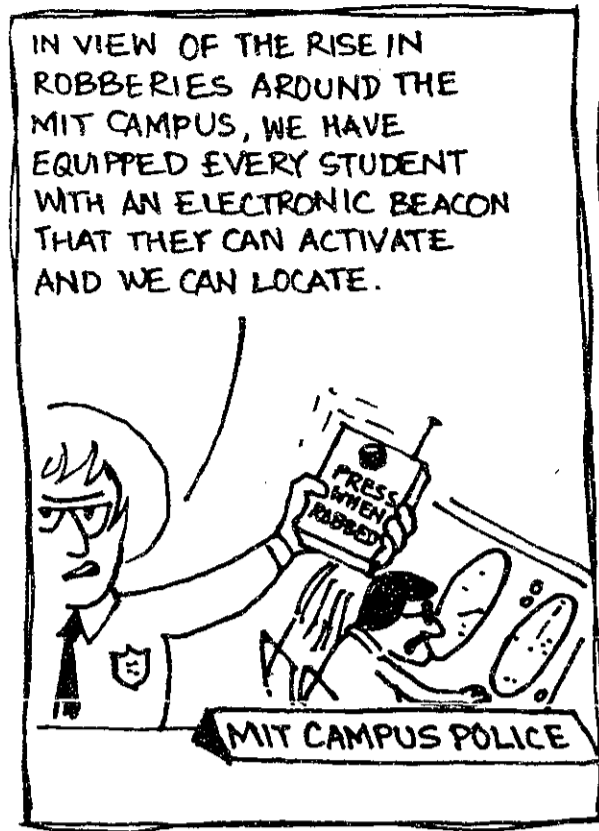
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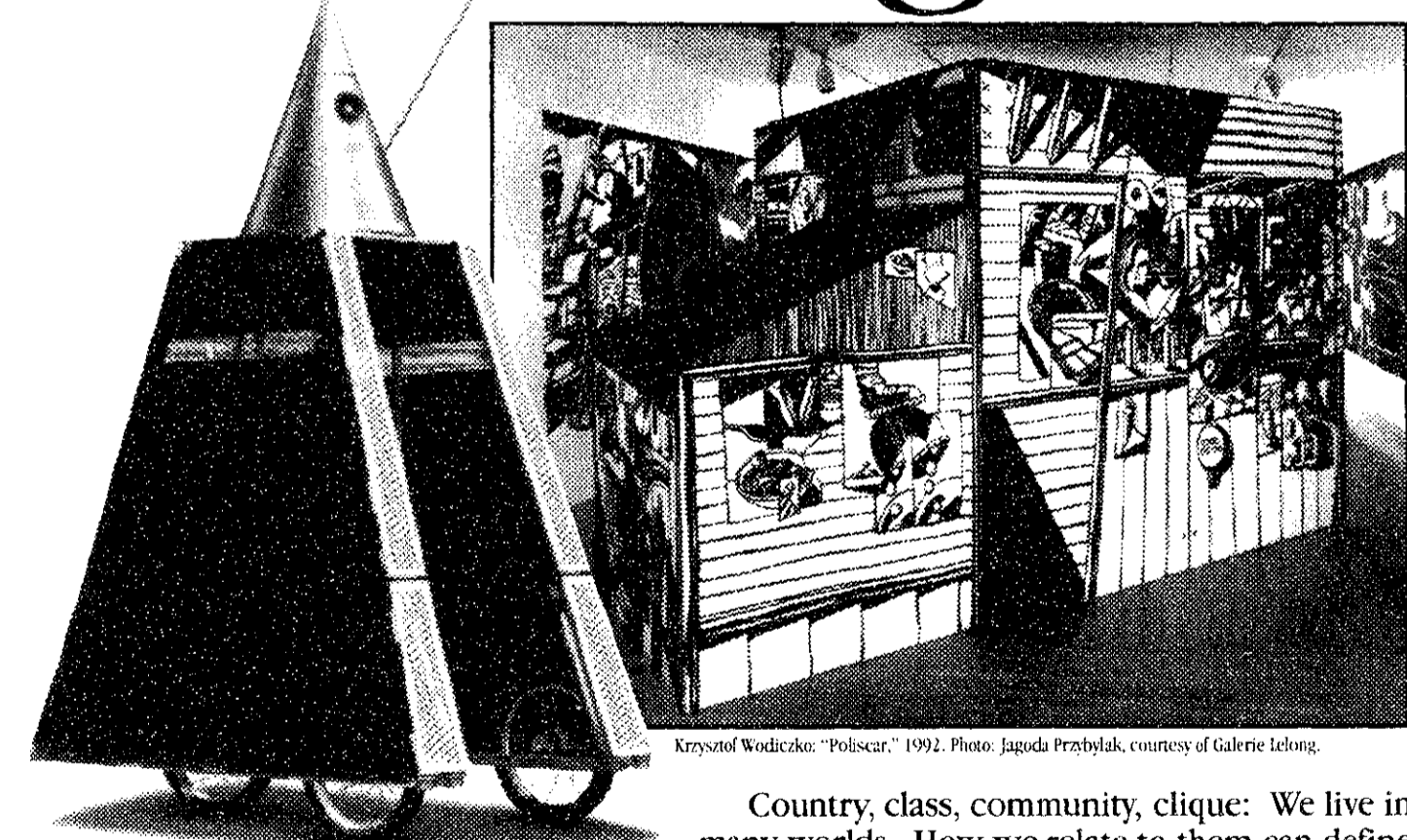
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Pawan Sinha



Fitting in. Staying put. Moving out.



Krzysztof Wodiczko: "Poliscar," 1992. Photo: Jagoda Przybylak, courtesy of Galerie Lelong.

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"IN AND OUT OF PLACE: Contemporary Art and the American Social Landscape." Now through January 23. Museum of Fine Arts, Boston, 465 Huntington Avenue. For information: 617 267-9300.

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NOTICES

NOVEMBER 5

Boston College presents "Can't we all just get along?" a multicultural night starting at 9 p.m. in the "Rat" of B.C.'s Chestnut Hill campus. The cost is \$3. Call 558-9045 for information.

NOVEMBER 7

Over 500 Special Athletes from throughout the Bay state will travel to Essex County to vie for the gold in soccer, unified soccer, cycling, and equestrian competition starting at 9 a.m. Call (508) 774-1501 ext. 236 for information.

The Greater Boston Antique and Collectible Toy Show will be at the Holiday Inn in Dedham from 9 a.m. to 2:30 p.m. Call (508) 379-9733 for information.

ONGOING ANNOUNCEMENTS

ANNOUNCEMENTS

The Provost's Office is accepting nominations for the MacVicar Faculty Fellows Program, which is intended to recognize and enhance undergraduate education at MIT. Nominations for appointment to a 10-year term should be submitted no later than Nov. 15. Nominations may be submitted by any member of the MIT community and should consist of a substantial case.

The American Red Cross Blood Services - Northeast Region has reopened its Clinical Testing Service at a new Boston address, offering confidential HIV (AIDS virus) antibody testing and premarital blood testing to area residents, employees, and students. Call 1-800-223-7849 for an appointment and more information.

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NOTICES

ANNOUNCEMENTS

Three weekends at **Talbot House** are open in November and will be reserved on a first-come, first-served basis. Regular scheduling deadlines for reserving time in December is Friday, Oct. 29, for January is Friday, Nov. 19, and for February is Friday, Dec. 17. Please note that regular scheduling is done strictly on a lottery basis. Groups who have gone to Talbot House recently will not have it counted against them; groups who have not been to Talbot House in years will not have it in their favor because of that as had been done in the past. Groups of 15 or more, only. Applications and information are available outside W20-549. Call 253-4158 for more information.

COUNSELING

Today, more than two million men and women are demonstrating by their personal example that alcoholism is an illness that can be arrested. If you have an alcohol related problem please get in touch with the Alcoholics Anonymous group nearest you — with complete assurance that your anonymity will be protected. Call 426-9444 or write: Alcoholics Anonymous, Box 459, Grand Central Station, NY 10163. You will receive free information in a plain envelope.

The **Behavioral Medicine Program** of the Cambridge Hospital sponsors short-term groups throughout the year to help with anxiety and stress, panic attacks, depression, smoking cessation, weight management, pain, headaches, and social anxiety.

VOLUNTEER OPPORTUNITIES

MATCH-UP Interfaith Volunteers welcomes caring volunteers to visit with isolated elders in your Boston or Brookline neighborhood. Flexible scheduling and commitment levels. Call 536-3557 for information.

Recording for the Blind urgently needs professionals, retirees, and college students to help us record new textbooks for our borrowers local and worldwide. Find out about Cambridge's most convenient, flexible, and rewarding volunteer opportunity. Call 577-1111.

The **Buddy Program of the AIDS ACTION Committee** is looking for volunteers to provide emotional and practical support to our clients on a one to one basis. Interested persons need to fill out an application and attend our orientation and training. For information, call 437-6200 x450.

The **Cambridge Youth Guidance Center** seeks volunteers interested in spending a few hours a week with a child who has emotional problems. Males and Spanish, Portuguese, and Haitian-Creole speakers are especially needed, but all are welcome. Call Stefan Battle at 354-2275.

FELLOWSHIPS, SCHOLARSHIPS,

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Tens of thousands of dollars are available for students interested in pursuing master's or doctoral degrees in areas such as fusion energy, applied health physics, radioactive waste management, and industrial hygiene. Applications will be accepted through Jan. 31, 1994. Call 1-800-569-7749 for applications or additional information.

International Publications is sponsoring a **National College Poetry Contest**. Cash prizes will be awarded to the top five poems; poems will also be published in anthology of college poets. The deadline for entries is Oct. 31. For contest rules, send a self-addressed, stamped envelope to International Publications, PO Box 44044-L, Los Angeles CA 90044.

"The Big Idea," sponsored by The Jostens Foundation, will provide 10 students with up to \$2,000 each to design and implement innovative service projects in their campus communities. Applications are due Nov. 19. Call 1-800-433-5184 for information and an application.

INTERNSHIPS

Congressman Joseph Kennedy II, Eighth Congressional District, has announced several internships for the fall/winter term of 1993. Positions include administrative duties, press and scheduling duties, and general office support work. For more information, call 242-0200.

The Charles G. Kock Charitable Foundation invites students to apply to its Summer Fellow Program in market-based policy. The 10-week program runs from June 11 through August 20. Call (202) 842-4616 or fax (202) 842-4667 for info:matiaq.

CONTESTS, COMPETITIONS

The Institute of International Education announces the 1994-95 competition for the Fulbright Professional Exchanges in Journalism, with openings in New Zealand, Spain, East Central Europe, and the Baltic States. Call (212) 984-5330 for more information.

FREE INFORMATION

Prospective and current college students can find out how and when to apply to state, federal, and college-sponsored financial aid programs in the new 1993-94 **Handbook on Admissions and Financial Aid at Independent Colleges in Massachusetts**. The handbook is available by calling 497-2701.

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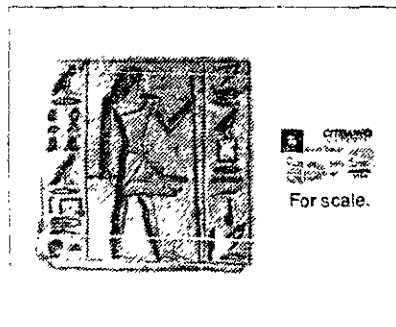
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Boston Marriott Cambridge, Salon Four, at 7:00 p.m.
For more information, please call Deborah H. Gottesman at 1-800-323-5678 ext. 1859

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The History of the Citibank Classic Visa card and the Age of Credit Card Security.

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bearing one's own photo and signature on the front, it soon became evident that Man was entering the Post Paleolithic Period. First, Man was no longer looking like a Neanderthal, as one often does on more primitive cards such as the Student ID. He or she could now choose his or her own photo. Second, by deterring other anthropoids from using the card, Man was helping to prevent fraud. Surely this

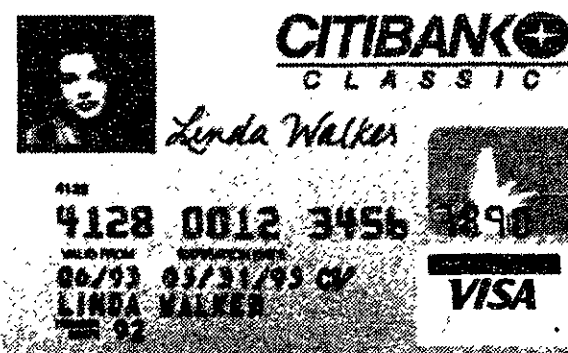
was a sign of advanced intelligence. ¶ The subsequent rise of services was nothing less than an American Revolution. So as you might expect, Citibank would be there for you, even if your card was stolen, or perhaps lost. **The Lost Wallet™ Service** could have a new card in your hands usually within 24 hours. (You can almost hear Paul Revere crying, "The card is coming! The card is coming!") ¶ When the Great Student Depression came along, Citibank introduced **New Deals—special student discounts and savings**. Hence, today's student can enjoy a \$20 Airfare Discount for domestic flights¹ (ushering in the Jet Age); savings on mail order purchases, sports equipment, magazines and music; a low variable interest rate of 15.4%²; and, no annual fee. ¶ Finally, comes the day you enter the Classical Age (i.e. when you charge your purchases on the Citibank Classic card). You receive **Citibank Price Protection** to assure you of the best prices. Just see the same item advertised in print for less, within 60 days, and Citibank will refund the difference up to \$150³. You receive **Buyers Security™**, to cover



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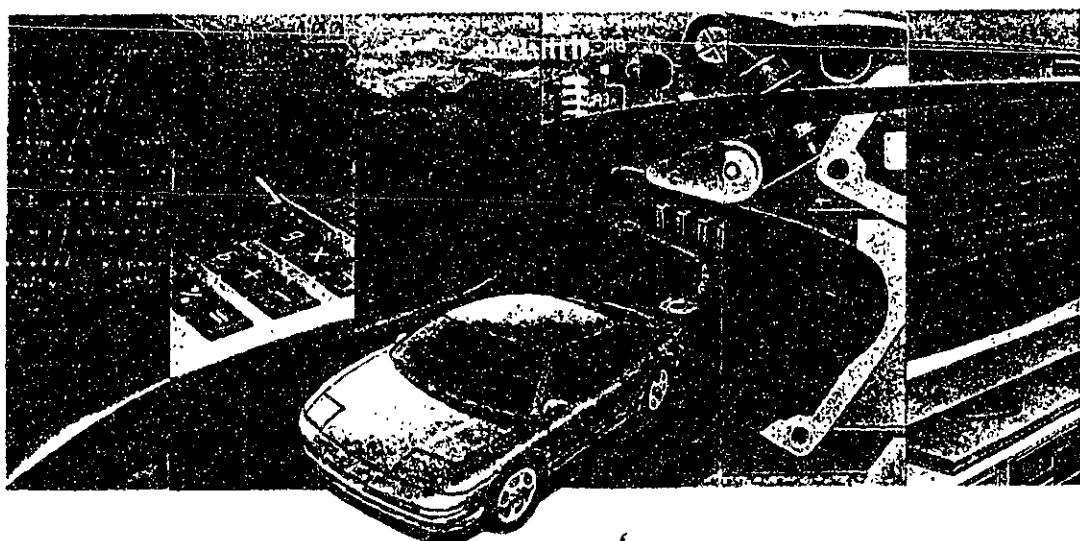
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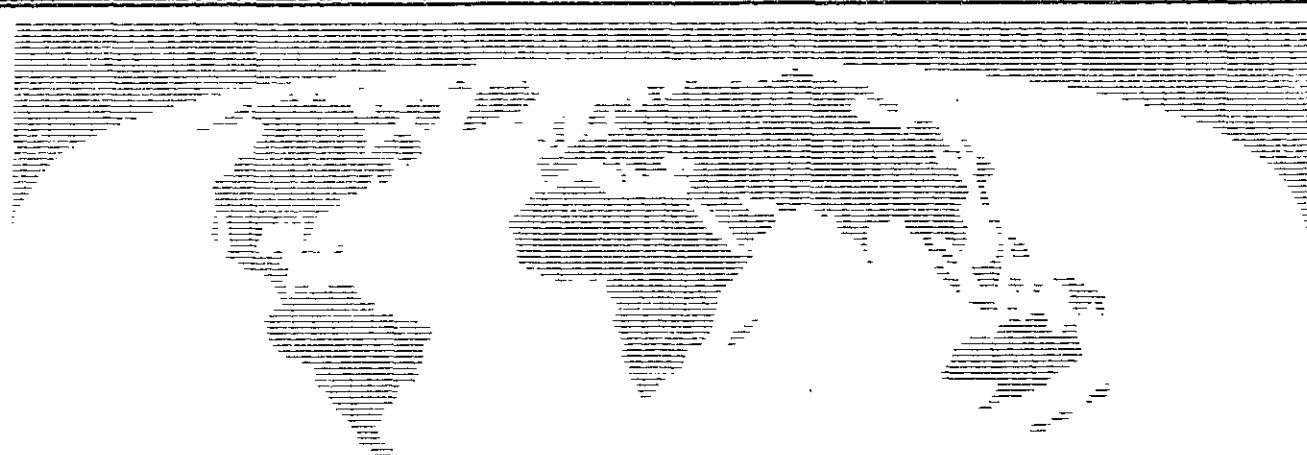
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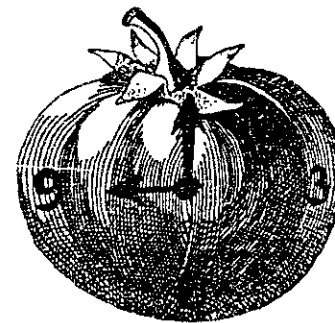
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Organizers Hope to Continue Homecoming as MIT Tradition

Homecoming, from Page 1

definitely think it will become tradition," said Henrik Martin '93, whose fencing prowess earned him a GTE award in 1992. Others also seemed to feel that this will catch on as an important feature on the MIT social calendar in a few years.

Several events also took place in conjunction with homecoming weekend, including Head of the Charles regatta, other sports events, and a virtual reality exposition.

In addition, "A lot of the fraternities have things going on this weekend. They just aren't on campus," Joyce said. "We hope that in the future they will include the

homecoming game in their plans."

MIT's first homecoming also raised questions about whether the annual event would bring football too much into the fore of the MIT athletic program.

One alumnus who was involved in athletics while at MIT said he was concerned that forming a tradition around football "relegates other sports to second class."

"When I came to MIT, the athletic department focused on participation and providing a broad base of sports and levels of play," he said. But he said that the emphasis seems to be shifting away from encouraging students from playing sports to watching them.

Sports Information Director Roger Crosley had assured the MIT community when the football team entered the NCAA that "football is no more and no less than any other sport at MIT."

But "the simple fact is, if we're going to have a ceremony like this, we can draw more people to football," Crosley said.

Whether or not football will gain popularity to the detriment of other MIT sports remains to be seen. The athletic department as a whole has gained respect in the past few years according to Ragucci, who feels that there is "more of a blend between athletics and academics."

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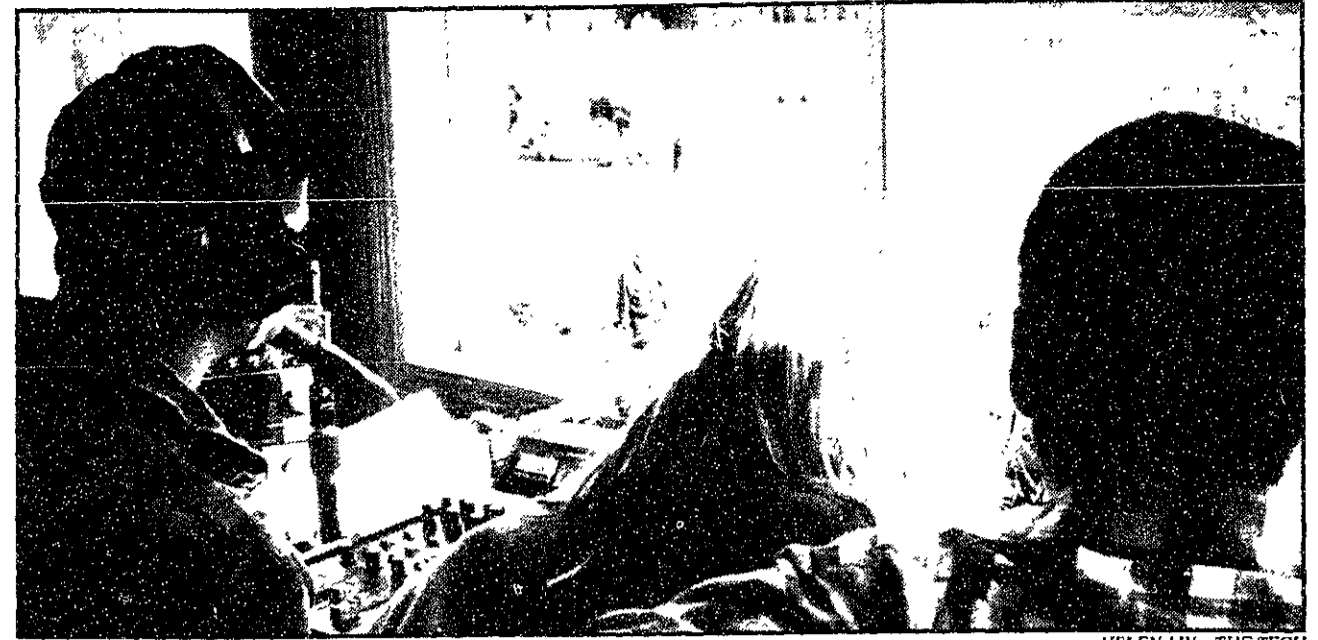
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Crimes Alter Habits

Crime, from Page 1

Campus Police can do everything," said Lisa E. Cohen '94. "Ever since the murder last year they have really stepped up [patrols], and I don't know what more they can do."

While few students agree that these recent crimes will radically change their daily lives, many have become more aware of the problem and have modified their schedules accordingly. Campus Police have

also been strongly urging students to be more observant and to avoid risky situations.

"I try to come back [to the dormitory] a little earlier now," said Baker resident Vinod Rangarajan '97. "And if I'm out real late I try to come back with somebody."

Nicole Baker '94 remarked, "Living in the city I think you have to be aware of [crime]. You can't just be oblivious to what's going on around you."

New Evaluation Form Lowers Response Time

Evaluations, from Page 1

Reaction to the new form has generally been positive. Craig Horenstein '97 said the new forms are better because "you can see what [the instructors] think, and you can respond to it."

"The new form is better at opening lines of communication between

you and a [teaching assistant]," said Ben Matteo '97.

Professor of Mathematics David S. Jerison also likes the experimental form. "It was generally better than the old one," he said. However, he pointed out that the new form does not readily allow for instructor response to student comments and criticism.

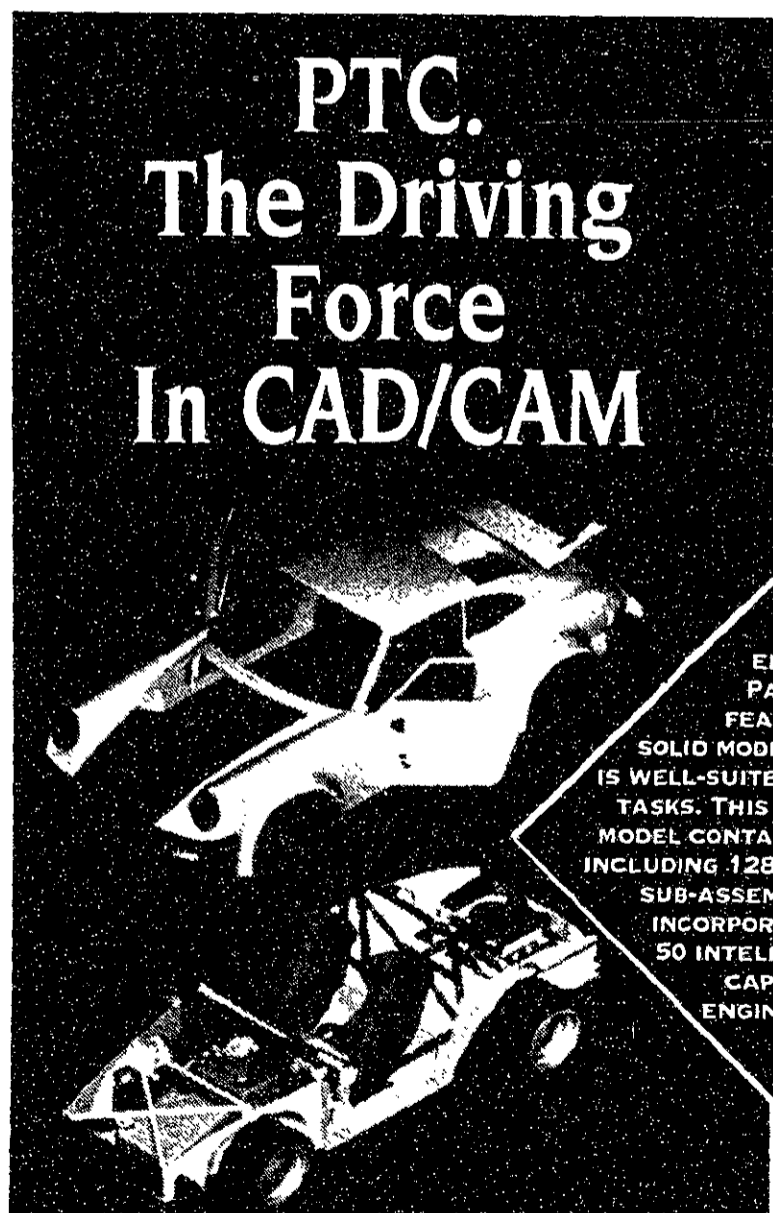
"I like the new form because you know how the instructor feels about you," said Andrew Newberg '97. "In my [humanities, arts, and social science] class, in which I used an old form, I just wrote something down blankly."

Amidst the praise for the new form, however, Merritt said it is still too early to tell whether or not the experimental form has been a success. Once the UAAO receives all the completed forms it will comprehensively examine both types to see which was more effective, he said.

Merritt added that evaluations later this year will probably use the experimental form.

Merritt also noted that the use of the experimental forms would not have been possible without the help and cooperation from the instructors and undergraduate offices.

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6. Grown men named "Biff."
5. Heavily armed hot dog vendors.
4. Carsick brother in the seat next to you.
3. Brain surgeon with hiccups.
2. Anyone with a cranky disposition and a chainsaw.
1. People who offer you drugs.

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Women's Soccer Beats Clark, 2-1

By Thomas Kettler
and Kolchi Kuntake
STAFF REPORTERS

The women's soccer team won its 10th game of the season Friday, beating Clark University 2-1 at Steinbrenner Stadium. This brings MIT's record to 10-2-2 overall with two non-league games and the league tournament to finish out the season.

MIT played a strong defensive game in the first half, keeping Clark off the score board. In the second half, MIT scored first as Becky Hill '95 made her 18th goal of the season nine minutes into the second half.

However, Priya Costa of Clark

tied the game with 13 minutes left in the game. Finally, Chantal Wright '95 scored her tenth goal and the winning goal of the match with five minutes left on an assist from Hill.

Head coach Suzan Rowe said the team had a great second half. "The game was in the second half essentially. In the first half, we played very good defense. In the second half, the object of the game was to get the ball in the air and we did that," she said.

The women's soccer team plays today at Colby Sawyer College, Thursday in the New England Women's 8 Tournament, and closes the season Sunday at Smith College.



YUEH Z. LEE—THE TECH

Linebacker Nolan Duffin '94, #9, prepares to flatten the Nichols College Bison's quarterback. MIT won with a score of 43-7.

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SPORTS

Beavers Buffalo Bisons, 43-7

By Thomas Kettler
STAFF REPORTER

The football team played a practically perfect football game Saturday against the Bisons of Nichols College. The final score was 43-7 but the game wasn't even that close; most of the MIT starters were removed after the beginning of the second half when the game was already decided.

The Beavers defeated the Bisons on offense, defense and special teams. The game raised MIT's record to 4-1-0 in the league and 4-2-0 overall and has set a match against Bentley in two weeks for the win of the Eastern Collegiate Football Conference, to take place here at MIT.

In the first quarter, MIT scored three touchdowns and got an early 20-0 lead against Nichols. Jose DeLeon '97 scored all the touchdowns on runs of two, four and a new school record of 86 yards, while the defense did not allow Nichols to get one first down in the first quarter. The offense, while not attempting a pass, had 193 rushing yards in the quarter which also allowed the Beavers to control the ball for over ten minutes.

DeLeon described his run after the game: "I had my buddies beside me telling me that they wanted me to break the big one. Once I went in there, I was determined to get a good one. I just went on the 34 blast and when I saw the hole, I just took it and I was gone."

In the second quarter, MIT continued to score while Nichols got its only points of the game. The Bisons scored their only points on a 31-yard pass from Bill Carven to Mark Primavera four minutes into the quarter. Primavera then converted the point after attempt.

MIT answered with a 51-yard drive highlighted by a seven-yard touchdown run by quarterback John Hur '94.

After this, the special teams participated in the massacre as Cal Perez '97 blocked a Nichols punt and Calvin Newman '96 recovered the block and returned it thirteen yards for another Beaver touchdown.

After the ensuing kickoff, Perez

intercepted a pass at the MIT 37-yard line. This set up the final MIT touchdown which occurred on a 28-yard fly pattern from Hur to DeLeon with seven seconds left in the half. A run on the fake point after attempt failed, so the half ended with MIT leading, 40-7.

In the second half, head coach Dwight Smith removed many of the starters on both offense and defense from play. However, the Beavers continued to dominate in the third quarter when, six minutes into the quarter, an MIT sack of Carven and a tipped punt led to a 23-yard field goal by Dan McGahn '94. No more scoring occurred in the game although Nolan Duffin '94 intercepted a pass in the third quarter and Mike Longcor '96 recovered a fumble to stall two Bison drives.

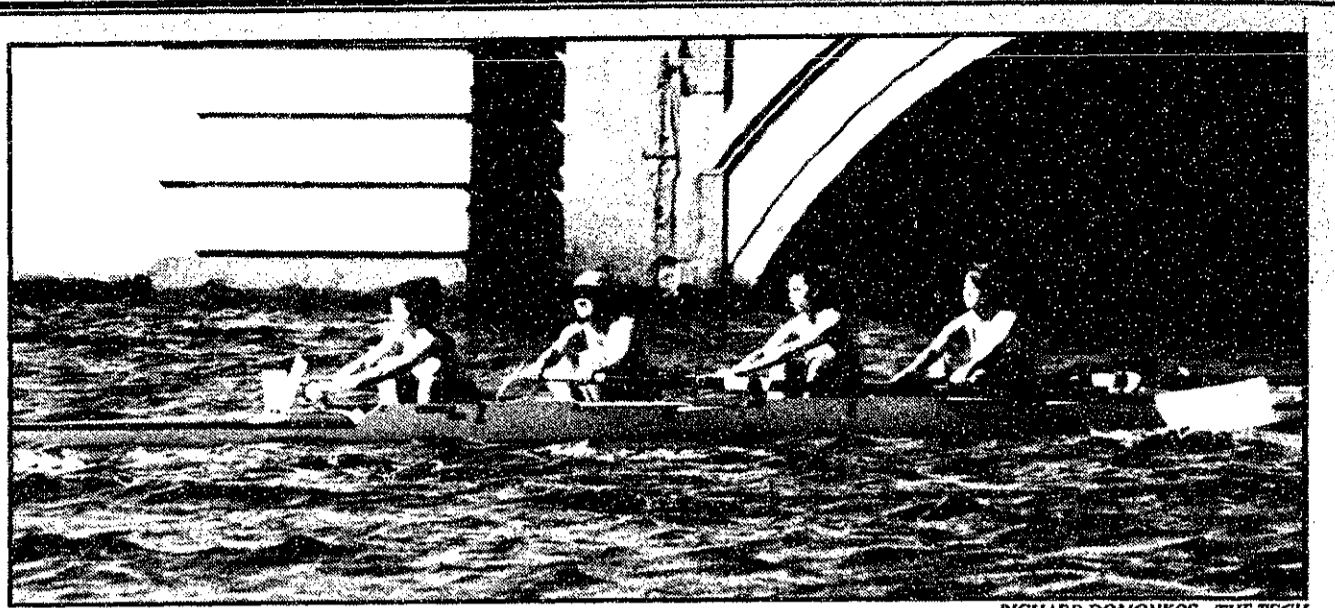
Overall, the team played quite well. DeLeon ran for 211 yards on 21 carries and would have broken the MIT individual game rushing record of 270 if the game had been close. However, he now has 844 rushing yards and can easily surpass 1,000 for the season.

DeLeon was not disappointed that he missed breaking the MIT record. "Actually, I just like playing ball. I'm not going out there to break any records. I'm not greedy. I understand that everyone wants to play so this is the perfect opportunity to get everyone to play," he said.

The offensive line, or "Hogs" opened holes all day against Nichols' defensive line for the running backs. Calvin Newman '96 prevented the league's leading receiver, Chris Maher, from making a catch, returned a blocked punt, and was named the ECFC defensive player of the week.

MIT led in yardage over Nichols, 382 to 224 but it could have been worse because the Beavers' defense allowed most of the yardage in the second half, with the starting line-up on the sidelines.

Smith was pleased with the team's performance. "Hard work pays off. . . . We've had our rough times. Finally, it's pay-back time. It's a nice afternoon and I was glad for MIT. It's good for the homecoming. A win is a win."



Four rowers pass under a bridge Sunday afternoon during the Head of the Charles regatta. Pulling for MIT in the women's four are: Stroke Sabrina Bernold '95, 3-Seat Bethany Foch G, 2-Seat Diane Hodges '95, Bow Tina Hameenanttila '94, and coxswain Shruti Sehra '96. The crew finished in third place.

Men's Soccer Loses to Clark

By Dan Wang
STAFF REPORTER

On Saturday, the men's soccer team lost a close game to Clark University, 2-1, at Steinbrenner Stadium. The Engineers seemed to have control throughout most of the game, but lost it in the late part of the second half, in a game which featured skillful ball-handling, rough playing, and some poor officiating.

Both sides played at a fast pace from the outset of the game, and continued doing so for most of the first half. The teams frequently traded offensive and defensive roles, with MIT spending slightly more time on the attack. But neither team was able to score, despite many opportunities. Most of the time, the ball either landed outside of the goal, or within reach of the goalies.

At halftime, neither team had score. Both teams were unable to penetrate their opponent's defense, as both Clark and MIT took only three shots on goal. MIT goalie Raja Jindal '95 made only one save (the other shots missed the goal), one fewer than the two Clark saves.

MIT seemed to show control throughout the early part of the second half. Most of the time was spent in offense, with the help of the defense to change the direction of the ball. However, the team still had trouble scoring, even sending three shots over the top of the Clark goal. With 28 minutes, 42 seconds left in the game, MIT took the lead,

1-0, with a goal by Andres Villalquiran '97 on an assist by Attila Lengyel '94.

The offense continued to press hard after the goal was scored, but to no avail. In the effort to wrest control of the ball, both sides played even rougher than in the first half. Both teams' players tripped, tackled, pushed, and fell many times.

The intensity caused the referees to issue a yellow card, for serious infractions, to both an MIT player and a Clark player during the second half. Even the Clark goalie was involved, as he toppled Jason Grapski '94 with 27:52 left in the game. He did not receive a penalty for this action, which angered many of the MIT players on the sidelines.

Things turned around for Clark in the last quarter of the game. Clark evened the score at 1-1 with 13:19 left. After a long punt by the goalie passed the MIT defenders, a charging Clark player took the ball and easily scored.

After that goal, Clark continued to play on the offense, and after several misses, the same Clark player scored again at 6:40. This time, he received the ball slightly ahead of mid-field, and ran the remaining length of the field before kicking the ball out of reach of Jindal.

With time running out, MIT still made desperate attempts to tie the score. Even with less than two minutes left in the game, the offense drove hard toward the Clark goal. The attacking MIT players spent the closing seconds trying to score, but

both passes and shots were off-target. In that last-minute play, the inability to score was as evident as it was in the entire game.

With the exception of the two goals allowed, Jindal performed rather well throughout the game, and played for its duration. He made seven saves, which included some close calls for the opponent, and was able to quickly move the ball out of MIT's half of the field many times.

On the team's performance in the game, coach Walter Alessi said that, "They played well enough to lose." He also commented that MIT controlled most of the game and had chances to score, but just could not put the ball in the goal. Many of the scoring opportunities could not be converted, because of offsides calls and shots that simply missed the goal.

The game ended a busy week for the Engineers. On Tuesday, they lost a 1-0 heartbreaker to Tufts University. On Thursday, they rebounded to shut out Curry College, 3-0, despite a sub-par performance. Rainfall hours before that game made a wet playing field, which produced much slipping and sliding, and many disagreeable calls by the referees.

The team concludes its season this week, with two more games. Yesterday, it played Gordon College at MIT. The season finale will take place Saturday at 2:30 p.m., at home, against the U.S. Coast Guard Academy.

Field Hockey Loses

Second Half Comeback Falls Short

By Christopher Chiu

Despite a strong comeback effort in the second half, the women's field hockey team lost in overtime to Worcester Polytechnic Institute, 2-1.

It was a hard-fought contest from start to finish. The first half was particularly well-fought, and was marked by good passing on both sides. Nevertheless, WPI gained the upper hand on offense and scored off Christy Hinkley's goal with 12 minutes, 28 seconds remaining, thanks to an assist from Danielle Luongo.

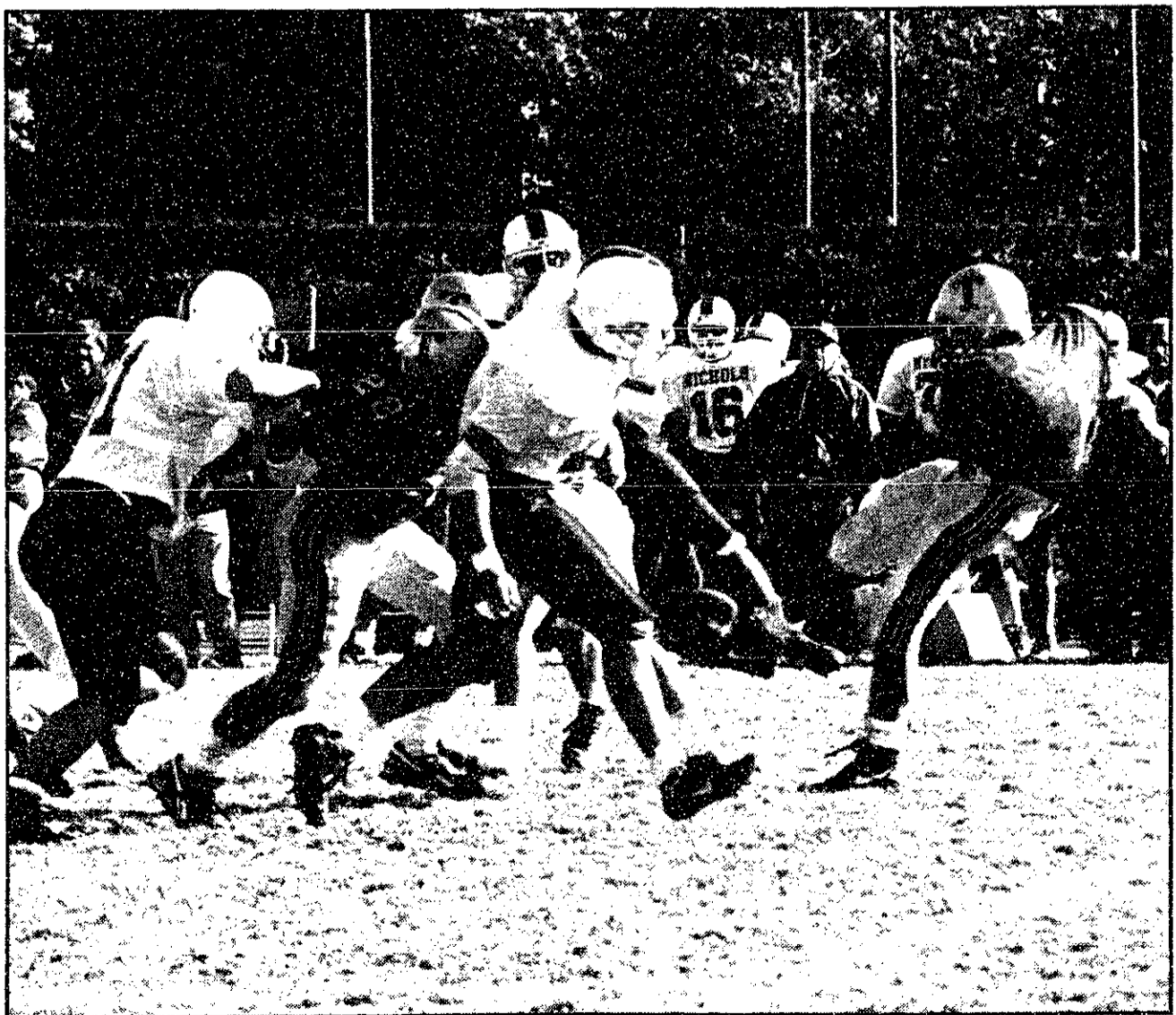
In the second half, MIT made a determined comeback, making numerous shots on goal; in that half alone, the team out shot WPI 8-3. Eventually, with time running out

on the Beavers, Vicki Tardif '97 combined with an assist from Laura Walker '97 to score and tie the match.

Unfortunately, in overtime WPI's offense kept the pressure on, and accumulated two successive penalty corner hits. MIT's defense survived the first bullet but was unable to escape the second.

This also brings up the key problem for the Beavers — they failed to capitalize on numerous WPI penalties. MIT had an astounding 15 total corner hits, but only managed to score an embarrassing one goal. Thus, despite their energetic play, they were unable to convert their efforts into points.

MIT will now regroup for their next contest, a Monday afternoon clash with Anna Maria College.



Scott Vollrath '96 punts the football against Nichols College. MIT won the game 43-7.

UPCOMING HOME EVENTS

Monday, October 25

Men's Varsity Soccer vs. Gordon College, 2:30 p.m.

Tuesday, October 26

Women's Volleyball vs. UMass-Lowell, 7 p.m.