

## CFYP proposals criticized at forum

By Prabhat Mehta

The proposed elimination of second-term freshman pass/no-credit grading came under fire at the first in a series of educational reform forums. The forum, held at East Campus on Wednesday evening, invited students to hear and question representatives of the two major education reform committees — the Committee on the First-Year Program and the Science/Engineering Working Group.

Professor Kenneth R. Manning, chairman of CFYP, responded to often intense criticism concerning the second-term pass/no-credit elimination proposal. Most of the students who questioned CFYP's proposal did not feel satisfied with the justifications given by the committee in favor of elimination.

The CFYP proposed that second-term pass/no-credit be replaced by a system under which students would be allowed to take one credit/no-credit subject per term beginning in the second term of the freshman year.

Several students indicated that if it were not for pass/no-credit in the second semester of the freshman year, they would have probably left MIT. These students argued that second-term pass/no-credit provides a "second chance" for students who have trouble managing classwork with all other aspects of the larger adjustment problem. This is

particularly true in the second term, they argued, because students who come to MIT often "coast" through the first term on their high school training, but once these people hit courses like Physics II (8.02) in the second term, they "fall flat on their faces."

Manning responded to this reasoning by criticizing the emphasis MIT students place on grades. If grades were dealt with in the second term, he argued, "We could counsel around them." This reasoning follows the CFYP line that anxiety about grades develops in the second term and that pass/no-credit elimination would allow students to deal more effectively with their own grades.

Manning also felt that many students take advantage of pass/no credit by "overloading" and thus sacrificing performance in important foundational classes. "I don't think that pass/fail should be meant to mask poor performance," he said.

Charles Whetsel '89 challenged this notion, stating his belief that second term pass/no-credit is a time for "social adjustment," as well as for continued academic adjustment. Citing his experience of "punting problem sets to go to the MFA," Whetsel claimed that classes are only part of the educational process at MIT.

Sarita Gandhi '90 called the CFYP's reasoning that a student only needs one term for academic

adjustment "laughable." The faculty must look at its own problems in educating students first, according to Gandhi. She accused the administration of once again "putting the burden on the students," instead of addressing its own problems in advising, teaching and counseling.

Gandhi felt that the administration should present students with more options, instead of restricting their freedom even further. One example she mentioned, which had been discussed by other students, was to set a credit limit for second-term pass/no-credit. Students taking more than a certain number of units of credit would have to be on grades under such a policy. Proponents of such a policy argued that it would solve the overloading problem while still giving those

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"Stupid" created by David Hogg '92 (pictured) and Katie Lilienkamp '91 teeters on the edge. See story on page 2.

## Students voice concern at tuition talk

By Irene C. Kuo

Students raised concerns about the future quality of the student body, sources of wasted money, the future of need-blind admissions policy, and deficit-control measures at Thursday's tuition forum with President Paul E. Gray '54 and other administration officials.

About 15 students and 25 administration officers and staff attended the event, which was organized by the Undergraduate

Association. It was the first forum on a tuition increase held in MIT's history, according to Manuel Rodriguez '89, former UA president.

"We felt a need to inform the community that tuition and self-help increases were necessary and to explain how the process works," UA President Jonathan Katz '90 said. "Our hope was that Gray's memorandum and the forum would open up the issue, not that the figures would be changed. We also hoped students would realize that the figures were not arbitrarily set, that the people who set them are not sadists." Tuition and the self-help level may each rise by 8 percent next year.

Several students asked Gray if he thought the tuition increase would drive qualified students to other schools. "You said that salary increases are necessary to keep the quality of the faculty, and that these account for a large

portion of the increase in educational costs," one student addressed Gray. "What if students can't afford the tuition, decide not to come to MIT, and then some of the faculty leave because of the lower quality of students?"

Gray responded that the distribution by family income of MIT freshman aid applicants across national income quartiles has been stable. In fact, the number of applicants in the lowest quartile has increased by 3 percent over the past 3-4 years, and the highest quartile has decreased by 3 percent, he said.

"[These figures] show that our practices have not caused us to lose the middle class, and that if there is any trend, it has been positive. We have [contradicted] the popular myth about private education," Gray noted. "Fifteen percent of our financial aid applicants fall in the lowest income quartile, about 25 in each of the

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## TIPS training required for servers

By Sanjay Manandhar

MIT is now requiring bartenders at public parties to participate in the TIPS (Training for Intervention Procedures by Servers of Alcohol) program. Meanwhile the Office of the Dean for Student Affairs is still considering requiring private parties to register with the Campus Activities Office.

Director of Campus Activities Susanna C. Hinds believed MIT would eventually require all alcohol events to register with the CAO, though she did not say when. When this idea was first proposed last year it was criticized by the Undergraduate Association Alcohol Policy Committee, the Dormitory Council,

and the InterFraternity Conference. The current policy does not require registration for parties with less than 100 people.

Public parties are required to purchase liquor licenses and have a Campus Police detail present. Sandi Harms '91, chairperson of the UA Alcohol Policy Committee, did not think these would be required for private parties, but she did believe that CAO would take steps to make the organizers more aware of the liabilities.

Campus Police Chief Anne P. Glavin believed that enforcement of MIT's alcohol policy has become tighter over the past several years. She said that the alcohol situation on campus "is not problem-free but is on the road

to vast improvement."

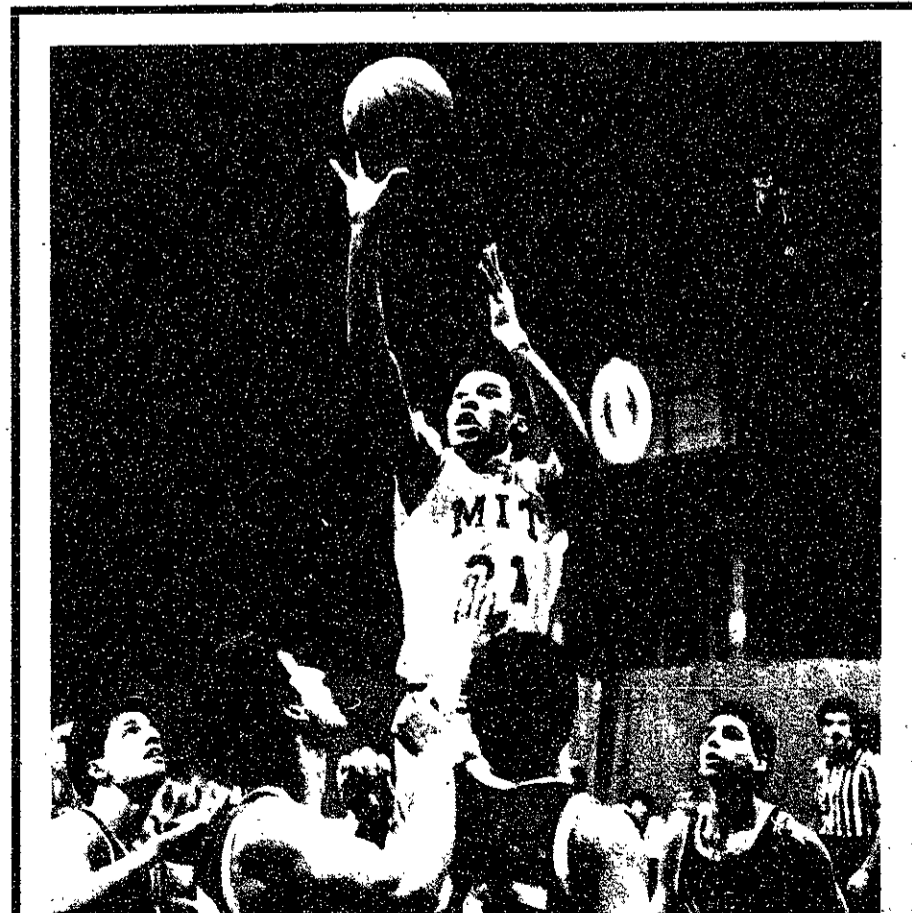
Door control at parties and awareness of liabilities have led to an improvement in the underage drinking problem, but nevertheless troubles persist, Glavin noted. Excessive consumption of alcohol and an influx of outsiders due to the fact that MIT is still one of the few "wet" campuses in the Boston area are still important issues to tend to, she added.

TIPS sessions held

In conjunction with DormCon and the CAO, the ODSA has been conducting a regular TIPS program. The Dean's Office covers half of the \$30 per person fee provided that DormCon can find a minimum of 15 persons to attend. Since December, six TIPS sessions have been conducted. There are currently approximately 12 TIPS-trained people in Senior House and 20 in East Campus. On West Campus, one person is trained in McCormick Hall and about 20 in each of the other West Campus dormitories.

Elizabeth Williams '90, chairperson of DormCon, called the increased awareness and training a kind of "preventive medicine." Most house presidents and social chairpersons, she noted, are now aware of the need for proper training and the liabilities that alcohol-related incidents bring about.

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Doug Cornwall '89 shoots in the final men's game this season. The Engineers were victorious over Emerson.

Michael Franklin/The Tech

## Panel finds no evidence of fraud in biology paper

By David P. Hamilton

Although a National Institutes of Health investigative panel has concluded that a research paper co-authored by Whitehead Institute Director David Baltimore '61 contains "significant errors," it found "no evidence of fraud, conscious misrepresentations, or manipulation of data" by the authors.

The panel characterized the flaws of the research effort as "significant errors of misstatement and omission, as well as lapses in scientific judgment and interlaboratory communication." In particular, it noted factual and clerical inaccuracies in two tables of data presented with the paper, and it raised questions regarding the sensitivity and specificity of certain reagents and assays used in the experiments.

These inaccuracies were "inadvertent errors of understanding and communication" between the

three principal authors, the panel's report stated. It went on to recommend that the authors submit a letter of correction containing substitute data to the journal *Cell*, which originally published the paper in 1986.

In addition, a memorandum filed by Katherine Bick, the NIH deputy director for extramural research, criticized the paper's authors for their failure to "address and resolve questions of error and interpretation in a collegial manner."

Bick also voiced concern that MIT policy, which requires an individual to make an allegation of fraud in order to invoke any formal investigative process, could unnecessarily constrain junior scientists with legitimate questions about the validity of research conducted by senior scientists.

"While every disagreement about error clearly should not be escalated into an investigation of fraud, research institutions have the responsibility of providing an environment in which scientists, especially junior ones, have the freedom to air their concerns without feeling they may be branded as troublemakers," Bick wrote.

Despite the critical remarks, (Please turn to page 15)

## inside

Cellist Paul Marleyn kicks off a new Sunday concert series at Old South Church. Page 9.

Bille August succeeds in adapting the book *Pelle the Conqueror* to the screen. Page 9.

# Changing the world with ice cream

By Casimir Wierzynski

Some people express themselves best in poetry; others prefer songs. Ben Cohen likes to express himself in bumper stickers. "Do we fear our enemies more than we love our children?" he asked, citing his favorite as the cornerstone of his philosophy of life. A balding, roly-poly college dropout, Cohen charmed a full-house in 10-250 on Wednesday with his talk on "Peace, Politics, and Ice Cream" that kicked off the Fifth Annual Alternative Jobs Fair.

Cohen started with a description of how he and his partner, a medical school reject, found themselves at the helm of a multi-million dollar business without sacrificing their flower-child, property-is-theft ideals. They started out with an American College Guide and a Farmer's Almanac, looking for a rural college town with a warm climate to place their home-made ice-cream shop, but settled on Burlington, VT, when they discovered that all the warm towns had already been spoken for.

The ice cream sold like crazy and the business expanded until one morning when Ben and Jerry woke up and discovered they were no longer shopkeepers but businessmen. This was very distressing. How could children of the Sixties face the world knowing they were bourgeois exploiters of the masses? Haunted by the specter of profits and double-breasted blazers, they resolved to sell the business. No one rushed to buy, and meanwhile one of Cohen's friends gave him advice that would change his life: don't sell Ben and Jerry's — change it.

The business world has always been preoccupied with profit, says Cohen, so he resolved to in-

still some "values" in order to make Ben and Jerry's "socially responsible." He put his company on the auction block against the advice of his accountants in Vermont's first public stock offering. With a minimum buy of \$126 he attracted the attention of everyday folks rather than professional speculators, which was the idea, so that one Vermont family in 100 currently owns "a scoop of the action."

But Cohen is not content with changing the face of his business; he intends to change the world — a world, he claims, that is more concerned with destruction than with feeding its young. He trotted out the usual statistics of how many times we can blow up the world and how staggering the defense budget is, as well as the cli-

ched story of "I've been to Russia and they're just like us," to buttress his central thesis that the United States should earmark one percent of the defense budget for "peace through understanding" activities.

Cohen described one of his "socially responsible" ventures in Brazil, where he has started a company to buy nuts from Indian tribes and produce ice-cream tentatively named "Brazil Chill." Three quarters of the profits go to restoring the Amazon rain forests (which the Indians may start destroying in order to plant more nut trees?). Cohen's "values" also find their way into his "Peace Pops," which feature ice-cream enveloped in Vermont "aw-shucks" peace propa-

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Michael D. Grossberg/The Tech

"Do we fear our enemies more than we love our children?" asks Ben Cohen, of "Ben & Jerry's" fame.

## Student-built robots battle in 6.270 contest

Feature

By Reuven M. Lerner

Don Hejna '89 and his Lego robot "Mr. Inertia" beat 20 other contestants in last Tuesday's 6.270 Contest. Student-built fighting robots battled in this year's competition to reach the top of a mound referred to as "the Mountain."

The contest, sponsored jointly by the Department of Electrical Engineering and Computer Science, Six Appeal and Microsoft Corporation, was the third one in as many years. The competition is a takeoff on the well-known annual contest in Introduction to Design (2.70).

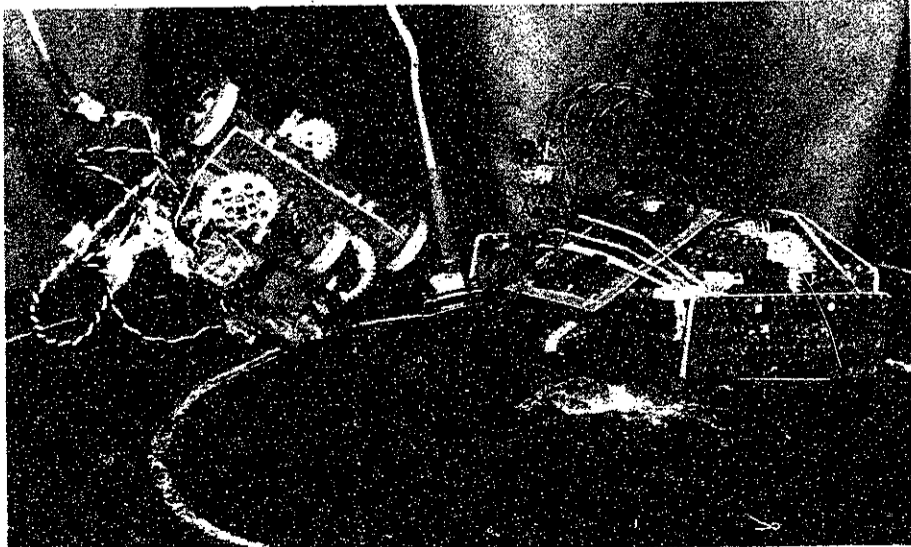
Participants, working together in teams, began their work for the 6.270 Contest during Independent Activities Period. The contest kits they were given consisted of Lego gears and blocks, a light sensor, and two ball sensors which could be used to detect the robot's orientation.

While previous 6.270 contests were programming competitions, this year's contest involved hardware, as well as software design. Each contestant was responsible for designing his own hardware interface between the robot and controlling computer. Programs controlling the robot were written in such languages as C, Pascal, and BASIC.

Hejna, an electrical engineering major, chose a new VCR as his prize. Other prizes included the computer programs Microsoft Excel and Flight Simulator, a Microsoft Mouse, Lego building sets, a Superball, and a frisbee. Every participant received a prize based on his standing after the five rounds of competition.

Participants and audience members were generally excited about the contest, although some expressed reservations. Wolf Schaafschmidt G, whose robot "Terminated" lasted two rounds, said that the contest was "much better than in previous years."

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Ognen J. Nastov/The Tech

Two machines built from legos struggle to reach the top in the third annual 6.270 contest held February 14th.

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# news roundup

from the associated press wire

## World

### Japan mourns Hirohito

The largest gathering of world leaders in modern times has joined Japan in a final farewell to Hirohito, the emperor-god who was made mortal by a disastrous war.

Tokyo came to a standstill this morning as 32,000 police mounted a massive security operation to protect foreign leaders, including President Bush. A black hearse carrying the Emperor's lace-draped coffin drove slowly through the central Tokyo along a four-mile route to the funeral site at an Imperial garden. Police say about 200,000 people lined the streets. Some cried while others held their palms together in prayer.

After the body arrived at the funeral site, 51 pallbearers clad in black robes carried the one-ton coffin litter about 250 yards to the funeral hall. About 225 marchers took part in the procession to the garden. Members of the royal family, including Hirohito's son and new emperor, Akihito, carried umbrellas in the streaming rain and wind.

The 13 hours of funeral ceremonies began with two hours of private Shinto ceremonies presided over by Akihito. He ascended to the throne after his father's death in January at the age of 87.

### Calero testifies at North trial

Nicaraguan rebel leader Adolfo Calero testified yesterday at Oliver North's trial that he hadn't expected North to make personal use of money Calero had given him to help free US hostages in Lebanon. But Calero said he believes "to this day" that North acted properly. North is accused of embezzling some of the \$90,000 in traveler's checks that he received from Calero.

### Gorbachev visits Chernobyl

Soviet President Mikhail Gorbachev yesterday made his first visit to the site of the 1986 Chernobyl nuclear plant disaster. A spokesman for the organization that runs the power plant said Gorbachev met with managers and workers, and toured parts of the facility, which continues to operate. One reactor, at which the world's worst nuclear power accident took place, is now inoperative and sealed in a steel-and-concrete shell.

### Cat Stevens supports death threat

Former pop singer Cat Stevens says he supports Iranian death threats against Salman Rushdie. Stevens gave up singing in 1977, took the name of Yussuf Islam, and founded an Islamic school in London. He told a group of students, "If someone defames the prophet, he must die." Many Moslems consider Rushdie's book *The Satanic Verses* blasphemous.

### Ousted president seeks to visit US

The State Department says it has yet to receive a visa application from the ousted president of Paraguay. Alfredo Stroessner reportedly wants to visit his family in Florida. He has been staying in Brazil since being deposed in a bloody coup earlier this month. Brazilian newspapers say Stroessner is living in fear of a possible assassination attempt.

## Nation

### Senate panel rejects Tower

For the first time in 44 years, a Senate committee has rejected a president's choice for the cabinet. The victim is John Tower, Bush's nominee for secretary of defense, who was voted down by the Armed Services Committee last night by an 11-9 party-line vote.

Most of the Democrats said they were voting against Tower because of continuing allegations about his drinking habits. Committee chairman Sam Nunn (D-GA) said he had seen no evidence that Tower had sought help for alcohol abuse. Before the panel vote, the White House said President Bush is sticking with Tower. Spokesman Marlin Fitzwater told reports in Tokyo that Bush has not discussed dropping his Texas compatriot or finding a replacement.

### Former KKK leader sworn in as Louisiana representative

Declaring discrimination "wrong and reprehensible," David Duke was sworn in Wednesday as a member of the Louisiana Legislature. But some of his colleagues are not convinced that the former Ku Klux Klan grand wizard has changed his tune. One challenged Duke's legal residency in an effort to deny him his elected seat. But the matter was tabled on a 69-33 vote.

### Committee approves HHS nominee

The Senate Finance Committee overwhelmingly approved Louis Sullivan yesterday to become President Bush's secretary of health and human services. The 19-to-0 vote came after Sullivan addressed the issue of abortion, which had been a main point of controversy in recent weeks. Sullivan embraced Bush's opposition to abortion except in cases of rape or incest, or when the mother's life is threatened.

### Administration asks reversal of abortion decision

The Justice Department has asked the Supreme Court to overturn its 1973 *Roe v. Wade* decision legalizing abortion when it rules on a Missouri law regulating the procedure. In a brief filed with the Court, the department argued that the decision was not supported by the Constitution, and said the Court should let states decide on abortion. A Supreme Court Decision is expected by July.

### Congressman accused of sex with minor

US Rep. Donald Lukens (R-OH) is proclaiming his innocence after a grand jury indicted him yesterday on a misdemeanor charge that he had sex with a teen-age girl. The four-term congressman was charged with contributing to the delinquency of a child. Lukens issued a statement from Washington saying he is innocent.

### Commercial nuclear plant dismantled

A huge pressure vessel from the world's first dismantled commercial nuclear power plant is headed for a dump in Washington state. Parts of the dismantled reactor in Shippingport, PA, have been packed in concrete and loaded on a barge for the 60-day trip to Hanford, WA. Several nuclear plants have been mothballed or entombed, but the Shippingport plant is the first commercial reactor to be dismantled.

### Cold snap sweeps South

The Deep South found itself in a deep freeze yesterday. A cold snap dropped temperatures to record lows across the Midwest and as far south as Tennessee and Arkansas. Snowflakes were spotted on beaches at the Gulf of Mexico, and the mercury dropped below freezing in northern Florida.

### House committee holds hearings on Wright

The House Ethics Committee had brief closed-door deliberations yesterday on allegations that Speaker Jim Wright (D-TX) violated House rules by using his office for financial gain. The study comes from independent counsel Richard Phelan, who has been investigating Wright for nine months. A top Republican Party official said the GOP will use the case to try to push the Texan out of his House seat. Wright's response: this shows that the inquiry into his conduct was partisan from the start.

## Weather

### Real winter weather at last

Now that March is approaching and thoughts of spring abound, it appears as if we are finally in store for real winter weather (i.e. snow). An intensifying winter storm is now tracking northward along the east coast of the United States. As it passes to our east during the day today and tonight, we can expect snow and gusty northeasterly winds in our region. Eastern portions of Massachusetts will be affected the most by the storm. By Saturday afternoon we should see clearing skies.

**Today:** Snow is likely and will possibly be heavy heavy at times. Winds will be strong from the northeast at 20-25 mph (32-40 kph). High temperatures will be near 30°F (-2°C)

**Tonight:** Snow will continue with lows near 25°F (-4°C). A brisk northeasterly flow will continue.

**Saturday:** Snow ending followed by partial clearing. Highs 30-35°F (-1 to 2°C)

**Sunday:** Partly cloudy with highs 32-38° (0-4°C)  
Forecast by Robert Black

Compiled by Gaurav Rewari

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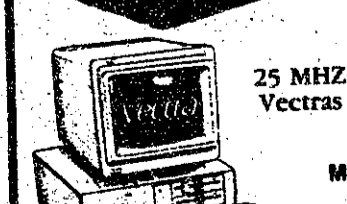
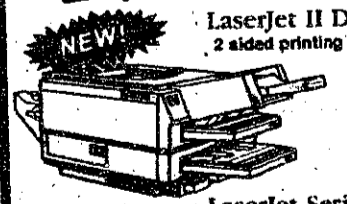
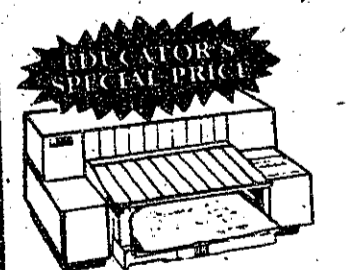
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# Opinion

Column/Barry Klinger

## Dangers ahead for El Salvador

Sometime last year, Rubén Zamora happened to speak with a member of El Salvador's extreme-right ARENA party in a foreign embassy in San Salvador. Zamora, leader of the leftist "Democratic Convergence" coalition, was surprised to find that he agreed with the rightist about many things: the US-backed, corruption-racked Christian Democratic government had failed to address El Salvador's problems, the economy was a mess, and the protracted civil war was a slow motion disaster. The rightist said he had a solution to the never-ending war.

Rather than fighting for another decade, he said, the military should kill about 100,000 people in a six-month span and then have nine and a half years to rebuild.

The FMLN guerrillas fighting the government have recently proposed another way to end the war. They say that if the elections are postponed for six months in order to allow the Democratic

Convergence to compete in a fair race, the FMLN would agree to a cease-fire and accept the results of the elections.

The Salvadoran ruling parties immediately rejected the offer. But the Bush Administration is worried about El Salvador's war becoming an albatross around its neck, and responded favorably. Now ARENA and the Christian Democrats are groping for ways to neutralize the proposal without being seen as intransigent.

Why has the FMLN rejected previous elections?

We in the United States tend to forget that elections are necessary but not sufficient for democracy. Even the Soviets have plenty of elections. In 1980, literally one tenth of El Salvador's population marched in the street on behalf of the left. Yet by 1982 military repression made it impossible for the left to run for office. The very process of voting is intimidating: the ballot hardly conceals the voter's choice, and voters must drop the ballot into a trans-

parent box while soldiers look on.

The massacres of 1979-1983 decimated the nonviolent left, but the decrease in murders by 1984 has led to a renewed explosion of political organizing. Imagine, just a few years after the army was machine-gunning demonstrations in the streets, there are again tens of thousands of impoverished people brave enough and desperate enough to march. Despite death threats, exiled politicians such as Zamora and Guillermo Ungo returned to El Salvador last year. Ungo decided to run in the elections (whenever they are held) as the candidate of the Democratic Convergence.

We should not let the fact that the government now murders "only" hundreds a year rather than thousands convince us that the military has stepped down. Just the other day, President Jose Napoleon Duarte announced that he would abide by the military's decision on the FMLN proposal, rather than the other way around. More ominously, death squad activities have risen markedly in the past year. The people have freedom — as long as they shut up.

Unfortunately for Zamora and other potential victims, ARENA already controls El Salvador's Legislative Assembly and key sectors of the military, and will probably win the presidency in the March 19 elections this year. Unfortunately for ARENA, the FMLN has been winning large parts of the country.

The FMLN has stepped up attacks on the military, including a daylight attack on the National Guard base in the capital. Recently, the rebels have also intimidated two thirds of El Salvador's official mayors into resigning, and the military is afraid to travel on many roads in the countryside, even during the day. A few years ago, US officials were saying that United States aircraft, training, advisors, and money had all but defeated the guerrillas. Instead, the rebels created an alternative government in the quarter of the country where they are strongest and extended the war to the rest of El Salvador. According to eyewitness accounts such as Charlie Clements' *Witness to War*, the rebel-sponsored government consists of village councils elected by local peasants.

FMLN representatives imply that if the government does not respond to their peace offer with some meaningful counter proposal, they intend to escalate the war to a general insurrection.

Thus the situation is a picture of instability. As the military toys with the idea of a massacre, and the guerrillas threaten to topple the government, each player has incentive to strike first. There are also constraints. If the guerrillas strike prematurely, the government might slaughter all their civilian supporters. If the military reverts to "total war," Congress might withhold US aid.

Or it might not. While in El Salvador last month, Vice President Dan Quayle demanded respect for human rights, but refused to say the United States would condition continued US support on such respect. (Actually Quayle said he "condoned" human rights violations, but we assume he meant to say "condemned"). Would the money keep flowing during a death squad rampage, as it did under President Carter? Would Bush

(Please turn to page 5)

Column/David P. Hamilton

## Rushdie affair demands firm reaction from West

Terrorism thrives in a climate of fear, and in the aftermath of the Ayatollah Khomeini's death order for Salman Rushdie, author of *The Satanic Verses*, fear is in abundant supply. It's too bad, for civil libertarians couldn't have asked for a better case on which to take a stand: the threat to freedom of expression is clear, and the threatener is distant and already despised by the majority of Americans.

Despite these facts, the Western response to the Ayatollah's unprecedented death sentence has been disappointingly muted. Khomeini made his threats a week and a half ago, but not until last Tuesday was President Bush moved to denounce the action. Before that, government statements consisted only of the tired boilerplate diplomats regularly haul out when registering *pro forma* protests.

Of course, Rushdie is a British subject, but when the leader of an allegedly civilized nation issues death threats against a foreign national, particularly for an "offense" recognized as a basic human right by the United Nations, it's incumbent upon the American president as titular head of the free world to express his outrage in no uncertain terms.

If the US government has any excuse, it is that the "warming trend" in Iranian-American relations since the end of the Iran-Iraq war led Secretary of State James A. Baker III to stifle angry responses to Khomeini's execution order. If that was in fact the State Department's reasoning, Baker ought to re-examine his priorities. Threats like Khomeini's do more harm to civilization than a dozen jetliner bombings.

For these threats go far beyond an honest rage at an unflattering portrait of Islam. The desperate commands of the aging Khomeini aim not only to reaffirm the leader's personal power at the expense of his nation's international standing, but to strike at one of the most basic principles of Western civilization — freedom of expression — under a false cry of religious intolerance.

So far Khomeini has succeeded, and it is here that the failure of private citizens to take a prin-

cipled stand against the Imam's intellectual terrorism is particularly dismaying. The authors, scientists, and human rights activists so prominent in other circumstances have only recently begun rallying around Rushdie's banner, and by now it may be too late.

Already the fear of Iranian hit squads have led New York landlords to suggest that employees of Viking Penguin, Rushdie's publisher, should look elsewhere for housing. At one point this week, B. Dalton, Barnes and Noble, and Waldenbooks had all removed *The Satanic Verses* from their shelves. Together, these chains amount to nearly a third of the retail book market.

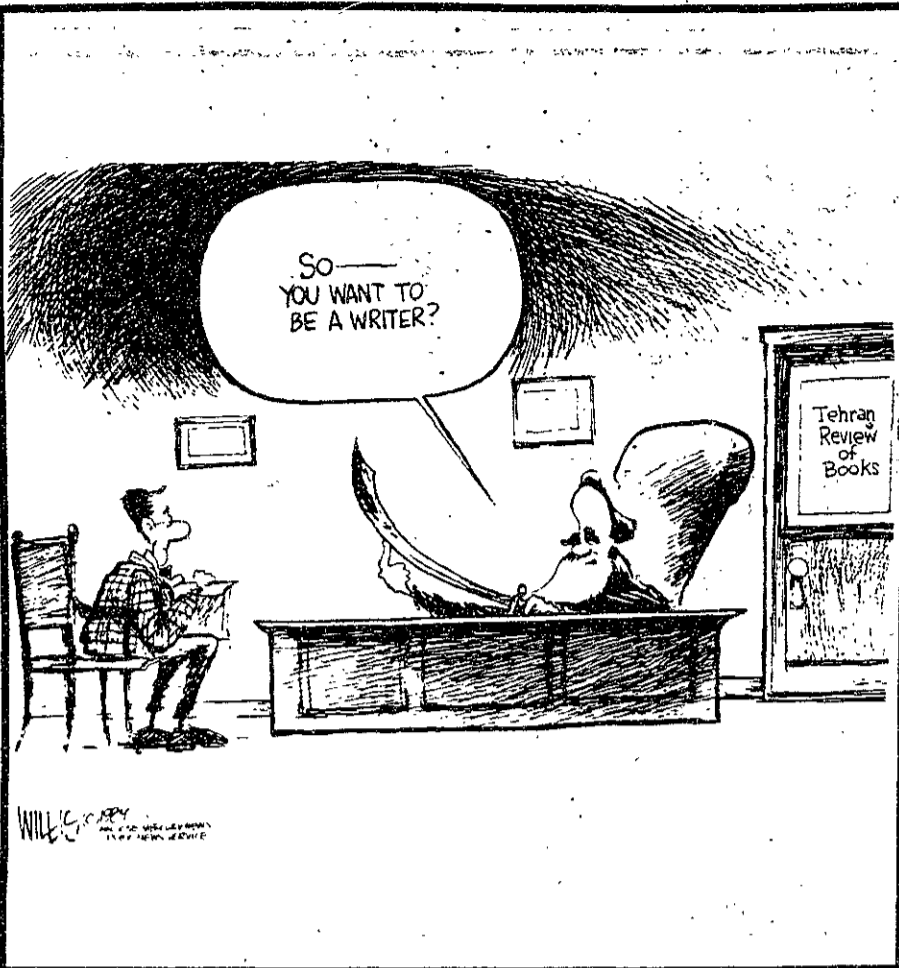
The point is not so much that Khomeini's threats have made Rushdie's book unavailable. Independent booksellers have moved into the niche vacated by the chains, and *The Satanic Verses* will be number two on the *New York Times* bestseller list on March 8. Instead, we have a lesson in how easily individuals and institutions can be cowed by extremist rhetoric from states with an international reputation for terror.

As a society, our dedication to principles like freedom of expression is only as strong as the importance we place upon them in times of crisis. Our reaction to the Ayatollah's threats have made it clear that sufficient pressure can dislodge our support for even our most cherished beliefs.

The only way to avoid caving in to such pressure is to renounce it, and the more universal such renunciation is, the less effective the threats become. Khomeini's death order is wrong, whether viewed legally, morally, or religiously, and should be soundly condemned as early, and as often, as possible.

Anything less hands the victory to the terrorists. Salman Rushdie, his book, and the culture which allowed him to write it deserve more than that from us.

David P. Hamilton, a graduate student in the Department of Electrical Engineering and Computer Science, is a senior news writer of The Tech.



# The Tech

Volume 109, Number 6 Friday, February 24, 1989

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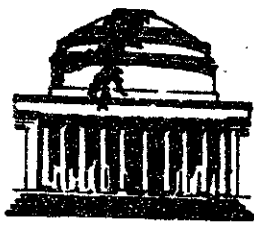
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# opinion



A Crack in the Dome / Daniel J. Glenn

## Twenty years later, MIT still doing military research projects

Recently a new display-case was built to fit in the staircase in Building 8, at the easternmost end of the Infinite Corridor. One day while wandering up that staircase I paused to look inside. The first thing I noticed were the golf club heads, each carefully posed like a golfer's trophy on a wooden base with a little sign stating: *Metal Wood Golf Clubs*. Pretty exciting stuff, I thought to myself, no wonder I never look in these things.

Next to the golf club heads lay a *Rear Window Hinge — Station Wagon*, then a *Guided Missile Control Fin*, wait a minute, a guided missile control fin? Then, a *Gunport, F18 Fighter*, and next to that there was a *Hinge Load for Battle Rocket*. And finally, in the lower right hand corner, lay a *Cluster-Bomb Wingshaft*.

A bigger sign hung above the golf club heads and weapons parts that read: *Department of Materials Science and Engineering, and the Hitchner Manufacturing Company, Inc.*

I tried to imagine what students might tell their parents when they come upon this display while touring the halls around graduation:

"Look Mom, I'm gonna build a cluster-bomb!"

"Oh, how nice dear, what is that for?"

"They're anti-personnel weapons, designed to kill the maximum number of people on impact. You know Mom, the ones they've been using in El Salvador! They're like big hand grenades, except instead of shrapnel, they're filled with little bombs that fly out in all directions to get 'em while they're runnin'."

\* \* \* \* \*

In the midst of the Vietnam War in spring semester of 1969, the newly formed Union of Concerned Scientists proposed a research stoppage at MIT to be held on March 4 to protest governmental misuses of science and technology and the academic community's involvement in war-related research.

The March 4 action led to a series of protests, headed by the

Science Action Coordinating Committee (SACC), that resulted in the removal of classified research from campus, and in the creation of the Science, Technology and Society program at MIT. Nationally, the event sparked similar strikes around the country and was the beginning of a nationwide movement of scientists and engineers who began to push for the responsible use of technology.

Next week is the twentieth anniversary of this historic event. Unfortunately, military research is still very much a part of MIT. MIT is currently engaged in several hundred research projects for the Department of Defense. The following are examples of unclassified on-campus research (obtained from government research-contract documents by SACC) for the DOD: Department of Materials Science — "hardening of integrated circuits to withstand nuclear attack"; Department of Earth, Atmospheric, and Planetary Sciences — "target identification using infrared radar"; Department of Electrical Engineering and Computer Science — "optical signal processing for missile guidance"; Department of Civil Engineering — "arctic military facilities"; Department of Aeronautics and Astronautics — "application of composite materials for Army helicopter blades"; Plasma Fusion Center — "SDI space-based radar."

The following statement, signed in 1969 by 50 members of the faculty, is as relevant today as when it first appeared in *The Tech* two decades ago.

Union of Concerned Scientists Statement of Jan. 27, 1969:

*Misuse of scientific and technical knowledge presents a major threat to the existence of mankind. Through its actions in Vietnam our government has shaken our confidence in its ability to make wise and humane decisions. There is also disquieting evidence of an intention to enlarge further our immense destructive capability.*

*The response of the scientific community to these developments has been hopelessly frag-*

*mented. There is a small group that helps to conceive these policies, and a handful of eminent men who have tried but largely failed to stem the tide from within the government. The concerned majority has been on the sidelines and ineffective. We feel that it is no longer possible to remain uninvolved.*

*We therefore call on scientists and engineers at MIT, and throughout the country, to unite for concerted action and leadership: Action against dangers already unleashed and leadership towards a more responsible exploitation of scientific knowledge. With these ends in mind we propose:*

1. *To initiate a critical and continuing examination of governmental policy in areas where science and technology are of actual or potential significance.*

2. *To devise means for turning research applications away from the present emphasis on military technology towards the solution of pressing environmental and social problems.*

3. *To convey to our students the hope that they will devote themselves to bringing the benefits of science and technology to mankind, and to ask them to scrutinize the issues raised here before participating in the construction of destructive weapons.*

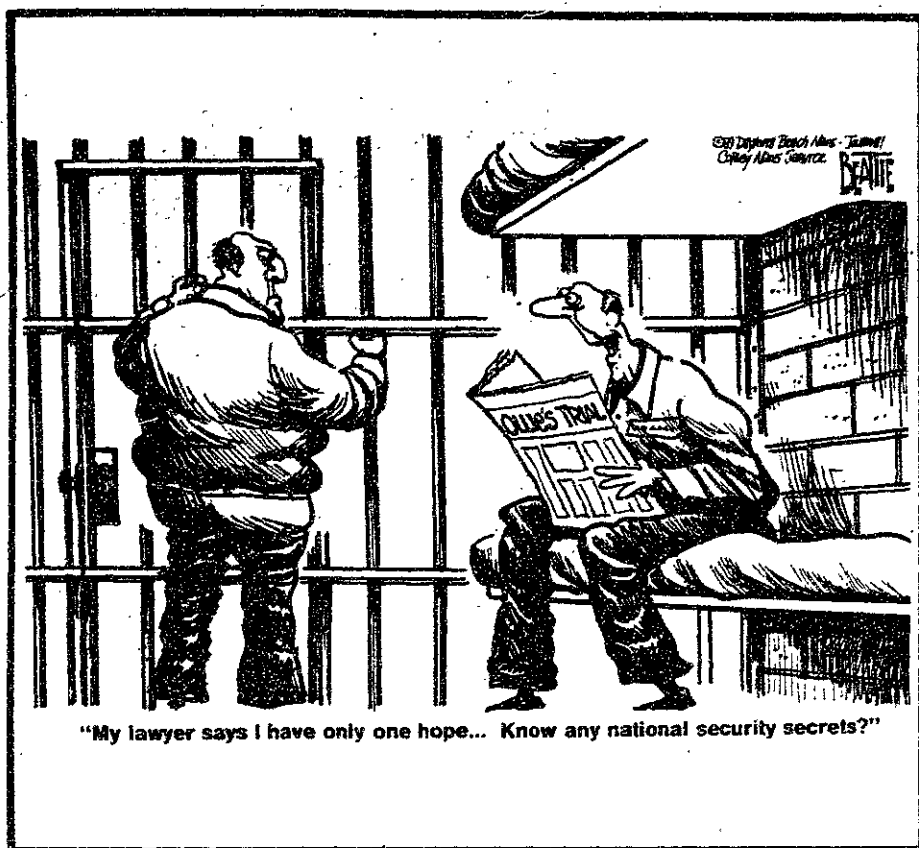
4. *To express our determined opposition to ill-advised and hazardous projects such as the ABM system, the enlargement of our nuclear arsenal, and the development of chemical and biological weapons.*

5. *To explore the feasibility of organizing scientists and engineers so that their desire for a more humane and civilized world can be translated into effective political action.*

*As a first step towards reaching these objectives we ask our colleagues — faculty and students — to stop their research actively at MIT on March 4 and to join us for a day devoted to examination of the present situation and its alternatives. On that day, we propose to engage in intensive public discussions and planning for future actions along the lines suggested above.*

*If you share our profound apprehension and are seeking a mode of expression which is at once practical and symbolic, join us on March 4.*

*Daniel J. Glenn, a graduate student in the Department of Architecture, is a columnist for The Tech.*



"My lawyer says I have only one hope... Know any national security secrets?"

## feedback

### Tech Israel report shows biased editorial policy

To the Editor:

Andrew L. Fish's three-piece article on Israel evidenced both poor journalistic method and *The Tech's* insupportable editorial policy. To call it a report, as *The Tech* did, is both absurd and misleading. A report is a collection of facts and figures deduced from investigation. Fish produced a pamphlet.

Although we are not made aware of the details of Fish's trip, it is apparent from both the admitted sponsorship of the World Zionist Organization and the quotes in his article that Fish was participating in one of Israel's many propaganda campaigns. That *The Tech* did not acknowledge this is sad.

*The Tech* indiscriminately printed statements from Israeli President Chaim Herzog, members of the Israel Defense Force and the Foreign Ministry, and the head of the WZO's Information Office. This in itself is not deplorable. However, nowhere is

there any commentary on how lopsided these views are, or given this article, how ironic quotes such as "But he, and most Israeli officials I spoke with, did not believe there was an active bias in the Western media [against Israel]" really are. Interspersed throughout the article are many lies and misinterpretations, likely taken directly from Israeli documents or press releases, but written by Fish as fact. Were this article headed as an editorial, it would be of questionable value. Made to look like a piece of serious journalism, it is a transgression.

*The Tech* has no business printing personal or particularly nationalistic opinions without stating them as such. MIT students should not accept such low standards of journalism. Even given the extraordinarily one-sided view of Israel found in the United States, Fish's article is untenable.

Carl G. de Marcken '90

### Abortion foe insensitive to women's experiences

To the Editor:

There are lots of letters to the editor with which I disagree. Some more than others. Rarely, however, do I read one that insults me personally. Chris Papineau's column ["Abortion is not the answer," Feb. 14] insulted me.

I do not care to argue with Papineau as to when life begins or under what particular circumstances abortions are "justified." I have my own opinion on that. What I object to is the way in which he presents his argument. I do not agree with Richard Lawson '91 ["No one can be sure when life begins," Feb. 17] that Papineau's discussion was "ab-

sent of emotional platitudes." And, while I applaud Lindsay Haugland '89 ["Women must have rights over their own bodies," Feb. 17] for her articulate response to Papineau, his references to rape and analogies to the homeless hardly deserved the thought she put into it. I will confine my comments to two specific suggestions.

First of all, if Papineau is going to get anywhere in this crusade of his, he should stay away from any indication that he knows what it is like to be a woman. He is not one and will never know what it is like.

Second, I take issue with Papineau's description of a pregnancy as giving a child "a free ride for nine months." This is not only insensitive, but absolutely absurd. A human body is not just something a woman has to be "in the mood" to go through. Carrying a child is a physical and emotional experience that has a profound impact on a woman's life. I will not attempt to present medical evidence for this statement. I would suggest that Papineau speak to a gynecologist about the physiological and psychological impacts that pregnancy and child birth can have on a woman. Better yet, I think Papineau should go ask his mother.

JoAnn Herrigel G

## feedback

### Palestinian uprising not fueled by media reports

To the Editor:

In your article "Israel learns to fight a media war" [Feb. 14], the Israeli President Chaim Herzog expressed his opinion that television journalists helped to incite violence in the territories, as the leaders of the uprising need the media attention to start riots.

The Palestinian uprising (*intifada* in Arabic) did not start as a result of the media coverage, nor is it sustained because Palestinians love to appear being shot or beaten to death on television screens. It is rather the result of many years of occupation and oppression by the Israelis. Years of dreams lost and hopes abandoned.

In the same article, the Israeli military spokesman Col. Raanan Gissen complains that the "tunnel vision of television" only shows what is occurring at one

place at one time, and does not show what happened 10 minutes after the clip of the film that makes it on the air.

I wish to take this opportunity to thank him for his kind concern. To satisfy his curiosity, in the 10 minutes after a clip was taken, the Palestinian boy who was shot during the clip has probably died, the mother whose daughter or son was snatched away from her arms into the waiting army car is probably crying with anguish, and the family whose house was demolished is probably looking for food and shelter!

No, taking the media away will not end the uprising. Only one thing will: giving the Palestinians their own state. The two states can coexist in peace.

Ala M. Alryyes G

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*Address: The Tech, PO Box 29, MIT Branch, Cambridge, MA 02139*

# opinion



## feedback

### El Salvador's uncertain future requires that US rethink role

*(Continued from page 4)*  
 send our troops if the rebels were on the verge of winning? No one knows.  
 This column leaves huge gaps in the story. I challenge you to fill those gaps for yourselves. I challenge you to find out about that small country where the United States has given so much money to murderers and thieves. I challenge you to use those times when you are fed up with prob-

lem sets to read Clements, or Chomsky, or Armstrong and Shenk, or NACLA Report on the Americas, or Zeta Magazine.  
 Look at El Salvador because maybe, just maybe, our attention today is groundwork for preventing a bloodbath tomorrow.

*Barry Klinger, a graduate student in the Department of Earth, Atmospheric, and Planetary Sciences, is a member of the MIT Committee on Central America.*



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1989

MARCH

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# 4

SCIENTISTS, STUDENTS AND SOCIETY

Teach — In

## Friday, March 3rd

### George Wald, Nobel Laureate, Harvard Professor of Biology

MIT Speakers Include:

Michael Albert, UAPres '69

Tom Hsu, G

Lisa Greber, '87

Dirk Karis, '90

Prof. James Melcher

Prof. Jay Fay

10-250

3:00 pm

Co-sponsored by The Technology Culture Seminar at MIT, MIT Student Pugwash and Science Action Coordinating Committee

## CONTEXT WORKSHOP

(An experiment in problem-solving for students and faculty)

Q: What should MIT be doing about the "GREENHOUSE EFFECT?"

There may be a global catastrophe upon us. What should faculty and students at MIT do about it? What is our responsibility? What are some of the technical, social, economic and political issues that need to be addressed? A workshop on March 8 is planned to bring students and faculty together.

Object: To brainstorm, debate, and come up with ideas. A workshop "white paper" might be produced to present to appropriate officials at MIT and elsewhere.

Before the Workshop: We would like you to watch the NOVA videotape, "Hot Enough for You?" to give you an idea of the scope of the problems and issues. Call the Undergraduate Education Office, x3-7909, to make arrangements to see the tape. (We should be able to accommodate even the craziest schedule.)

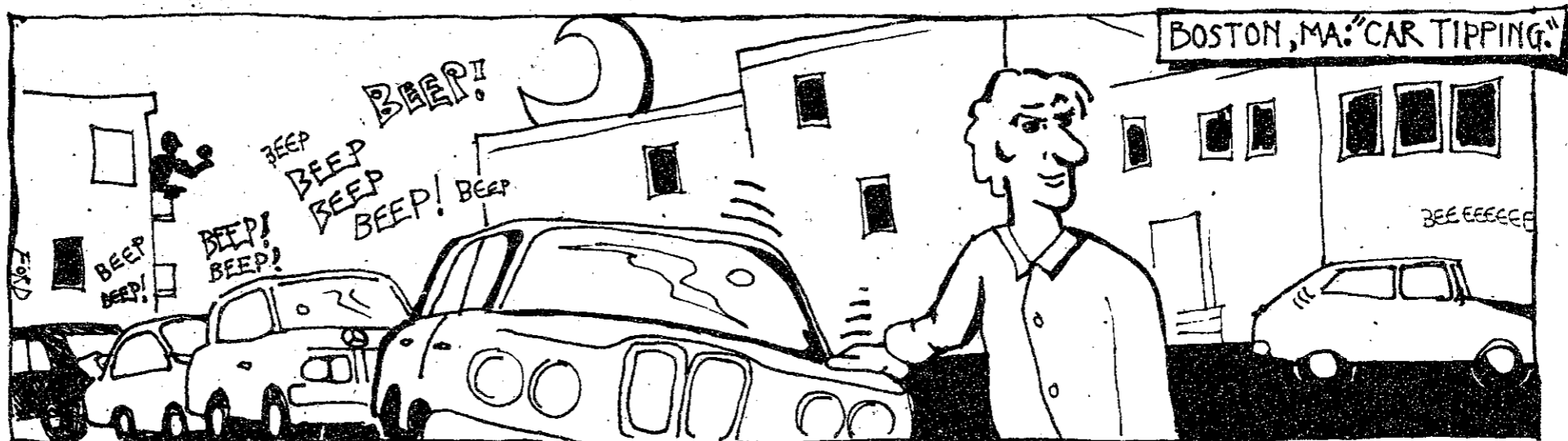
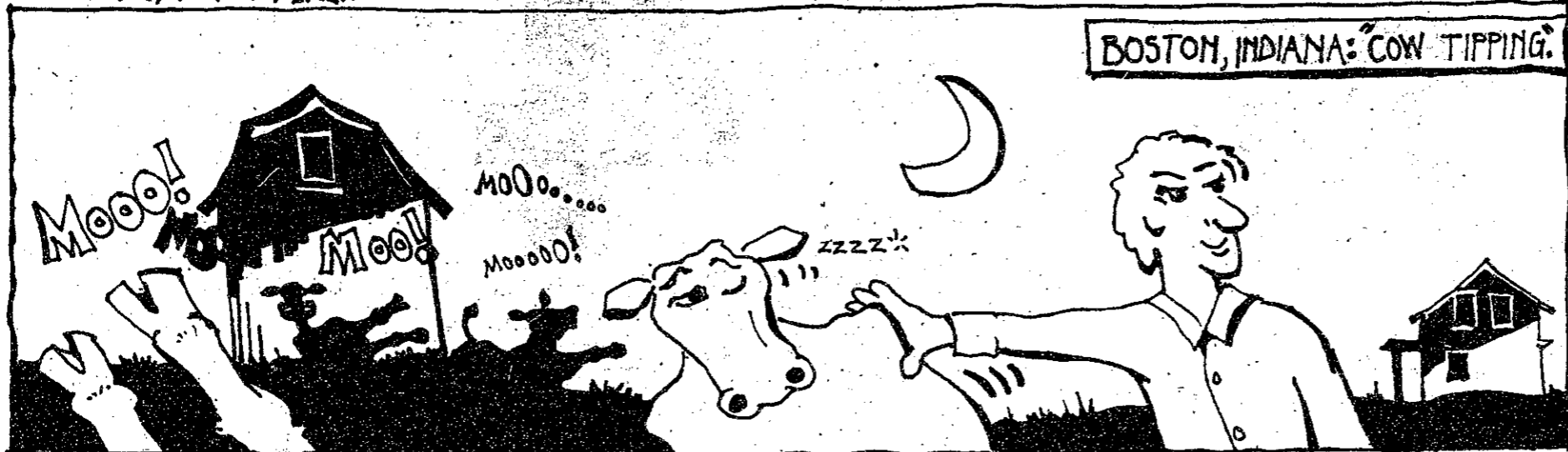
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BY JEFF FORD



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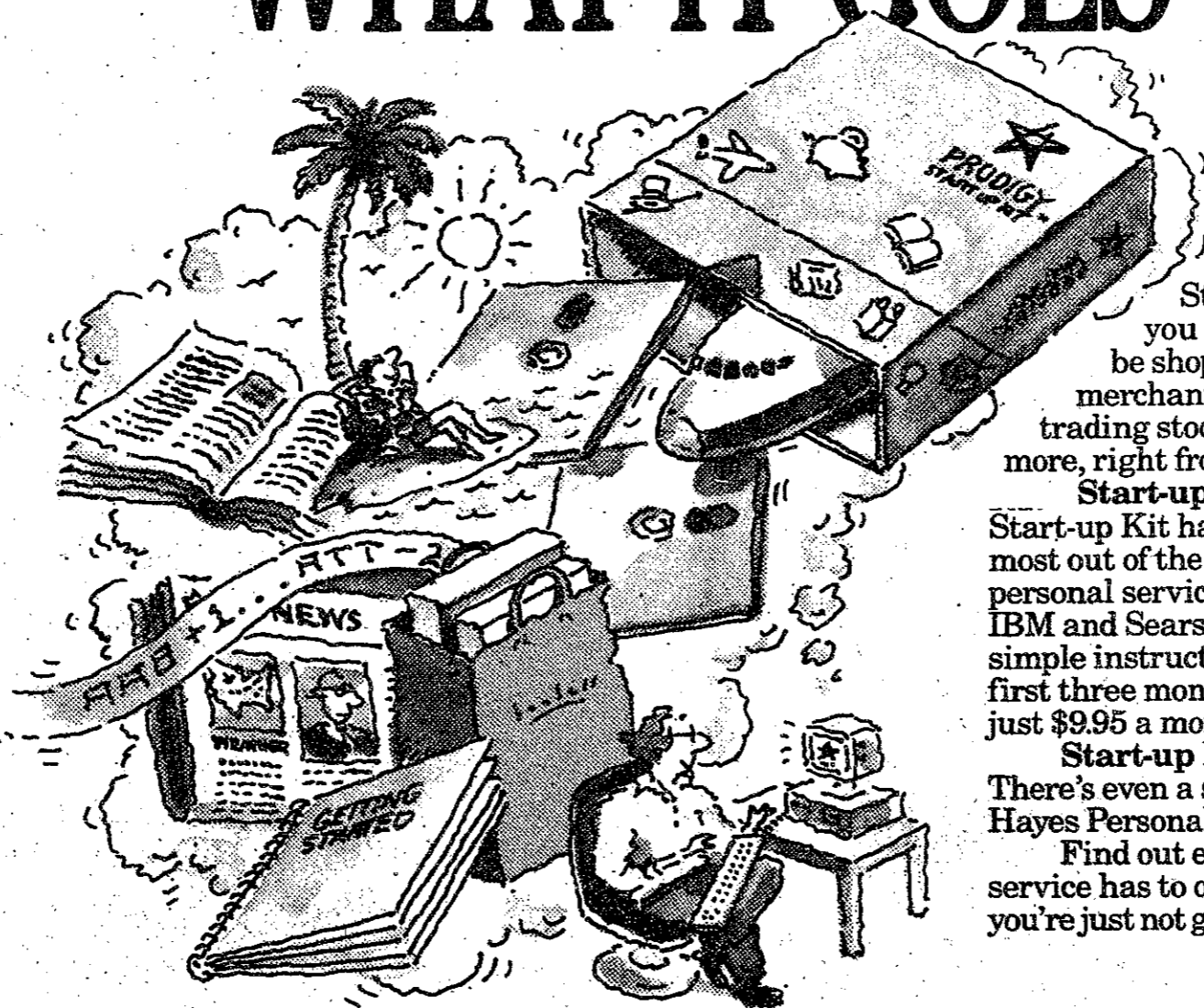
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## Monteverdi Choir shades every word in dramatic Handel oratorio

### ISRAEL IN EGYPT

By Handel.  
The Monteverdi Choir and  
The English Baroque Soloists  
Conducted by John Eliot Gardiner.  
Presented by the Wang Celebrity Series.  
Event in The Tech Performing Arts Series.

By JONATHAN RICHMOND

There's no doubt that The Monteverdi Choir and English Baroque Soloists gave a lovely performance of Handel's *Israel in Egypt*. It was an especially dramatic account, each word carefully shaded to subtly illustrate its meaning. The orchestra, with its well-separated voices skillfully carrying out their particular dramatic agendas, was especially colorful. Bubbly woodwind mimicked the pestilence of "all manner of flies and lice." Super-smooth strings created an eerie effect for the arrival of the darkness "which might be felt." Pungent blasts of brass drove home the

impact of the ultimate plague, and there was a sense of awed, almost choked disbelief to the choral intonation of the words "He smote all the first-born of Egypt."

The chorus showed great flexibility, their variety of tone and inflection keeping up the suspense as the story unwound. "He is my God" came across to particular effect, the contrast between the purely-defined strands that made up the ensemble's glorious polyphony producing a particularly inspired effect. At times, however, the chorus sounded muddled; words were often unclear, and this did at times detract from the impact. Members of the chorus sang the solo numbers, and for the most part they did this with distinction.

Despite the multitude of its colors, the orchestra sometimes seemed lacking in power: early music performances do aim for subtlety, rather than force, but if that is what John Eliot Gardiner wished to stress he should have performed in the more intimate Jordan Hall, rather than attempt to battle the difficult acoustics of so much of Symphony Hall.



John Eliot Gardiner, conductor

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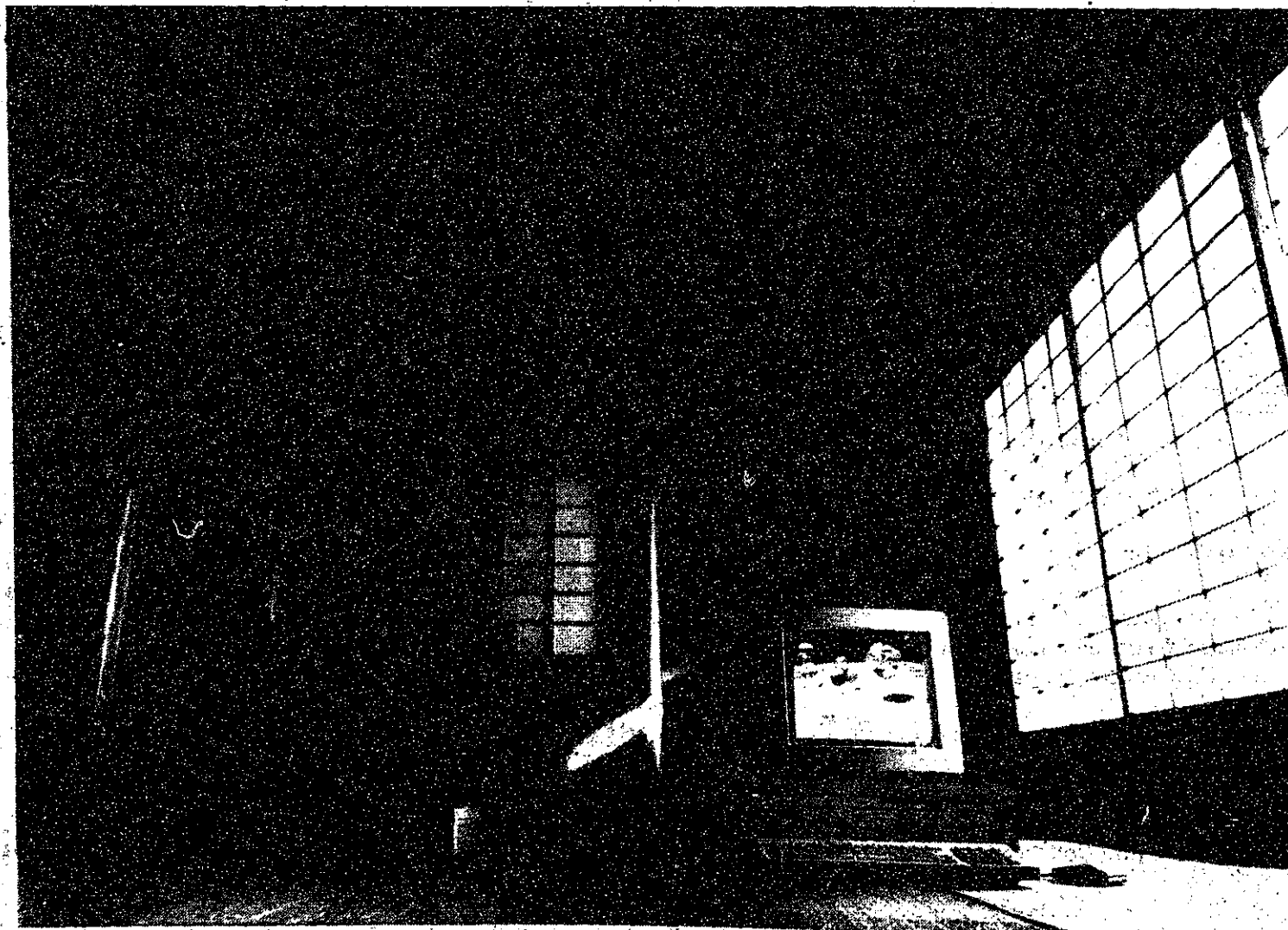
# The Power to Be Your Best

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Thursday, March 2nd  
Bldg. 4-163, 7 pm

Interviewing on Campus  
Monday, March 6,  
8:30 a.m. - 5:30 p.m.  
Career Services Office, Bldg. 12-170



## Cellist opens invigorating concert series at Old South

PAUL MARLEYN

Paul Marley, cello.

Judith Gordon, piano.

Free Recital at the Old South Church.  
Sunday, February 19.

By DAVID M. J. SASLAV

**T**HE OLD SOUTH CHURCH launched a bold new Sunday afternoon concert series last weekend. And if the opener was any indication, this will be one of the most invigorating series of instrumental recitals to hit town in recent memory. Free weekly recitals will feature such disparate genres as big band and jazz, large- and small-scale classical, as well as some titillating miscellany (such as the NEC Brass Players and the Perkins School for the Blind Handbell Festival).

Surely something for everyone, and at no cost, the price is certainly right.

Last Sunday's recital, which, incidentally, featured a subset of the works performed at Jordan Hall on Feb. 9 by the same artists, showcased cellist Paul Marley and pianist Judith Gordon. Works of Beethoven, Shostakovich, and Martinu were given attractive, precise readings, imbued at all times with extraordinary insight for such youthful performers.

Presented without intermission, Sunday's concert began with the second of Beethoven's cello sonatas, Opus 5. While Marley and Gordon played with near-perfectly fused ensemble, their stylistic approaches differed. While Gordon's playing came off as strongly romantic, Marley's rendition seemed more formalistic and at times bordered on the detached. While most of Beethoven's music certainly af-

tations, a lack of interpretive unity in performance tends to detract from an audience's ability to understand the intended statement. All things considered, however, the overall effect was one of abundant energy, vigor, and clarity.

The next offering, Shostakovich's remarkable *Cello Sonata in G Minor, Opus 40*, was nothing short of exemplary. Immersed in power, poignancy, and pyrotechnics, both performers demonstrated considerable talents in a performance which dried mouths and elevated spirits. Now uplifting and ethereal, now *pesante* and declarative, Marley and Gordon brought the house down with a dramatic reading of a work which exists in polytonal spheres every bit as much as tonal and atonal ones. Cries of "Bravo!" at performance's end were certainly well-deserved.

Foregoing intermission after such a work as this was imprudent. Martinu's *Variations on a Theme of Rossini* smacked of "encorism" — Marley performed without score, Gordon with. It was a bit much to ask of those in attendance to come down from the surreal, mystical planes of Shostakovich for the sake of a work which can only be described as "merry." The piece being quite short, though, Martinu's ineffable good humor had little difficulty hitting its mark. Marley seemed to revert to his early stoicism, but here it came off like a dead-pan stand-up comic delivering a wry joke, rather than as unintended reserve. A wonderful afternoon of music, without question. And by the look of the list of scheduled 1989 offerings [The George W. Russel Trio appears on Feb. 26 at 4pm], it's only the beginning.

## Pelle the Conqueror is an exceptional portrayal of his early years

PELLE EROBREREN

(PELLE THE CONQUEROR)

Directed by Bille August.

Screenplay by Bille August from the novel by Martin Andersen Nexø.

Starring Pelle Hvenegaard

and Max von Sydow.

Now playing at the Harvard Square and Nickelodeon Theaters.

By MANAVENDRA K. THAKUR

**F**ILMMAKERS HAVE A notorious reputation for butchering film adaptations of famous novels, and for good reason: the process of translating a story from the written page to the silver screen consists largely of throwing away the "uncinematic" elements of the novel. Few rules are iron-clad, however, and writer-director Bille August should be congratulated for making *Pelle Erobreren* ("Pelle the Conqueror") a notable exception. The main reason for his success is that he devotes no less than 150 minutes to adapting the first of four volumes of Martin Andersen Nexø's sprawling turn-of-the-century epic. While the end result is not completely satisfying, the film nevertheless is intelligently made and stands out as a fine example of the power of luxuriantly unhurried storytelling.

The film takes place in the late 19th century and is about a young boy named Pelle Karlsson (Pelle Hvenegaard) and his aging father Lasse (Max von Sydow). They have come to Denmark with the hopes of being hired as cheap labor for the harvest season. In addition, Pelle's mother has recently died, and Lasse is looking for a place to settle down in his old age.

Because Lasse's "too old and the boy's too young," in the words of a local farmer, Lasse and Pelle are among the last to be hired. Once they are hired, the two Swedes find themselves on the bottom of the farm's social hierarchy, and they end up living in the farm's chicken coop and working from dawn to dusk with little respite or pay. The film covers several years as it chronicles their harsh existence on the farm, which is named, appropriately enough, Stone Farm.

The strengths of the film quickly become apparent as the film progresses. The opening shot of a sailing ship silently



Max von Sydow in *Pelle the Conqueror*

emerging from a low-lying cloud of fog perfectly sets the tone of the film. It is quiet and restrained, and yet it still presents a striking image that lingers long after the film ends. The acting consistently matches the quality of Jorgen Persson's cinematography, and the guiding hand of the director can be felt from beginning to end. New characters come in and quickly become as familiar as the leads.

One of the greatest strengths is that the film does not break up the linear flow with flashbacks or flashforwards. The flow of time seems at once natural and inexorable. It imparts a sense of watching history unfold in the present, and this in turn conveys the impression of watching a future legend being born. (Young Pelle grows to fulfill his ultimate destiny as a prominent labor organizer and leader.) Much of August's film works beneath the surface, but August neither romanticizes nor obscures the material he has to work with.

But where the film leaves one unsatisfied is the direction of its narrative. Nexø published his novel in four volumes between 1906 and 1910, and August has adapted only the first part, entitled "Childhood." This necessarily causes the film to seem incomplete. August has already completed a screenplay from the

novel's second volume, but this is, obviously, no guarantee that the film will actually be made.

What is alarming, however, is that August told *The Boston Globe* that he would not consider making film versions of the third and four volumes because they are

"much too political." This reluctance to address the novel's social and political concerns calls into question August's artistic judgement and does a disservice to Nexø. Nexø addressed the demands of politics as well as narrative, and to deny one half of his approach, as August's comments seem to imply, is to deny the degree to which Nexø's political concerns influenced his writing and his novel.

Nexø wrote his novel after the Industrial Revolution had spurred the emergence of Danish society from 19th century feudalism, and the lower classes were organizing and agitating as the class struggle heated up. What separated Nexø, who was dedicated to socialism and abhorred violence, from other socialist writers like Upton Sinclair and Jack London, is that Nexø was able to combine both the realist and mythological literary traditions into a single straightforward style. Hence he was able to portray his characters as simple, human beings while also infusing them with the aura of mythical liberators. August's accomplishment in this film is notable and praiseworthy, but he will ultimately be judged on whether and how he fulfills his responsibility to the remainder of Nexø's novel.

### The Tech Performing Arts Series presents. . .

#### SINFONOVA

Sinfonya and the orchestra's conductor, Aram Gharabekian, have just been awarded the National Public Radio Wuslin Award for Performance by Large Ensembles. Come and hear Boston's extraordinary chamber orchestra in a program to include Beethoven's *Symphony No. 2* and *Coriolanus Overture*, "Renaissance Concerto" for Flute and Orchestra by Lukas Foss and the Cello Concerto No. 2 by Tigran Mansurian. Both Foss and Mansurian will be in attendance and will participate in a pre-concert discussion at 6:30.

Jordan Hall at New England Conservatory, February 25 at 8 pm. MIT price: \$6 (reduced from \$19) in advance from TCA (for all members of the MIT community); \$8 (for students only) at the door.

#### ORPHEUS CHAMBER ORCHESTRA

New York's Orpheus make their Boston debut with Alfred Brendel performing Mozart's *Piano Concerto No. 12*. The orchestra will also play Wagner's *Siegfried Idyll*, Haydn's *Symphony No. 83* and Schoenberg's *Chamber Symphony No. 2*.

Symphony Hall, March 5 at 8 pm. MIT price: \$5.

Tickets are on sale at the Technology Community Association, W20-450 in the Student Center. TCA offices are open only limited hours.

Office hours are posted on the door; alternatively, you can call x3-4885 before walking over.

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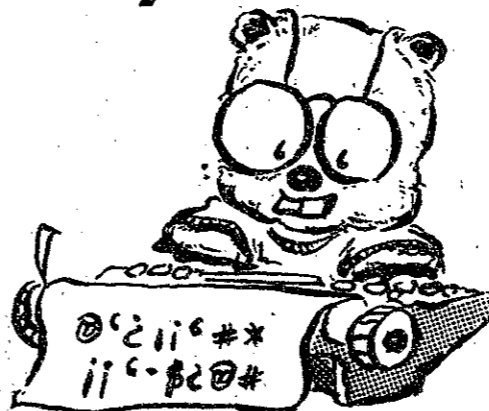
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# Students criticize CFYP plan on second-term P/F

(Continued from page 1)

students struggling academically extra time to adjust.

Anne Louit '90 voiced a similar complaint, describing second term pass/no-credit as "the last catch-all" for the administration's and faculty's problems. Without it, she believes, the advising, teaching and counseling problems would be left unaddressed.

Manning agreed that it would be necessary to deal with problems concerning MIT administration and faculty, but he reiterated his belief that elimination of second term pass/no-credit would allow for more flexibility in the undergraduate program and eliminate abuses in the current system.

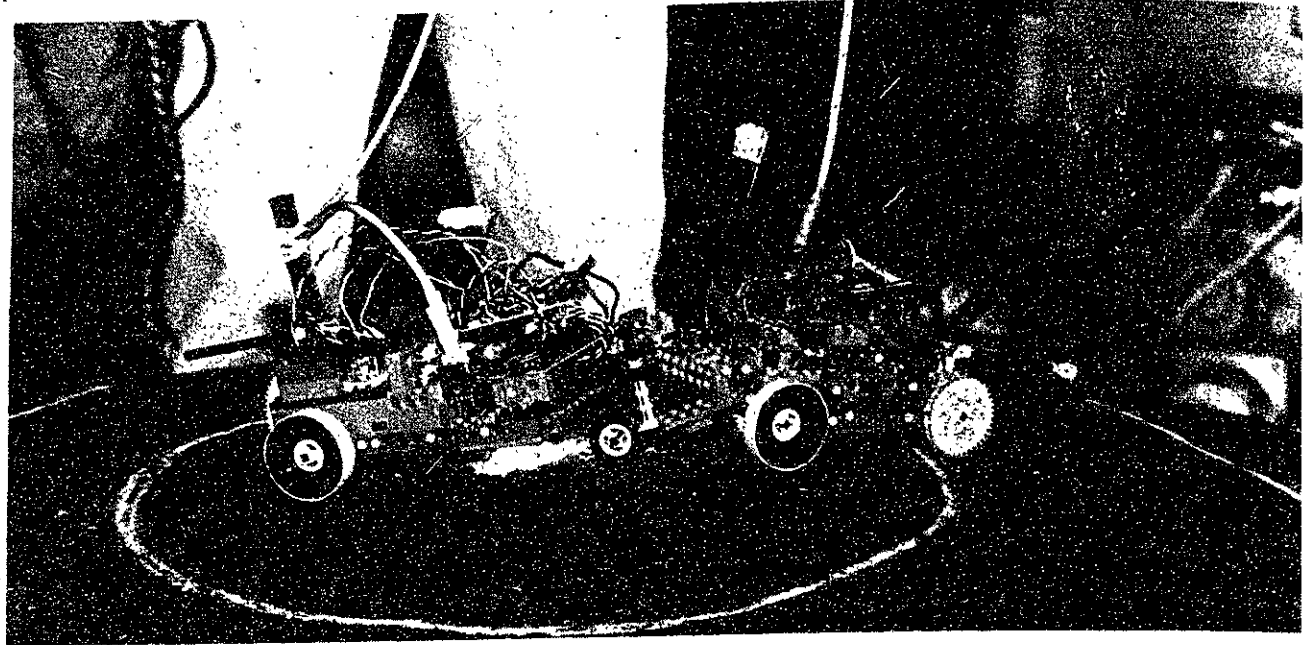
Professor A. P. French explained the Science/Engineering Working Group's report and took questions concerning the group's proposed introduction of a two-

term biology-chemistry-materials core sequence. "It would be a crime," he said, for MIT students to graduate without any exposure to modern biology.

French admitted that the proposal did not have many specifics worked out with regards to how the new term of mandatory core and a reduction in the Science Distribution requirement from three subjects to two would change the curriculum and graduation requirements.

Students generally agreed that study of modern biology has become increasingly important. However, some students questioned the need for another core requirement.

The new two-term core, if approved, would be implemented gradually, French said. A core science committee would monitor the effectiveness of the new sequence and prevent it from losing its objectives, he added.



Ognen J. Nastov/The Tech  
In the final round, "Mr. Inertia" (left), designed by Don Hejna '89, wins the fight to stay on top of the mountain.

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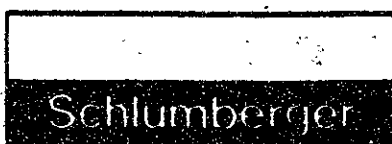
### INFORMATION MEETING\*

Date: March 7, 1989  
Time: 7:00PM - 9:00PM  
Place: Room 4-149

### INTERVIEWING

March 8 & 9, 1989

\*All candidates must attend Information Meeting



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# Students voice concern at tuition talk

(Continued from page 1)

middle quartiles, and 35 percent in the highest income quartile." He acknowledged that the national distribution of family income is approximately 30, 30, 30, and 10 percent, from lowest income to highest, "but it is known that there is a correlation between economic circumstances and who goes to college and what kind of college."

Rodriguez suggested that tuition increases be larger so that the self-help level remains the same. "Students here do not start on equal footing since some feel that they have to work 10 hours a week," Rodriguez said. "They don't know that all of self-help doesn't have to be from work-study. A lot of my friends who pay full tuition would be willing to pay the extra in tuition that would be needed to keep the self-help level down."

Gray agreed that a trade-off was involved, but that the increase in tuition to keep self-help level low would have to be a year-ly occurrence

In response to one student's examples of "blatant waste of money," such as the Student Center renovations that ran over-budget, past temporary Student Center renovations, and over-heated dorm rooms, Gray said that the renovations were necessary and that the Institute was trying to become more energy-efficient, though spending on energy conservation measures should not exceed the money saved.

"Many of the buildings were built at a time when the cost of energy was not a strong consideration, when heating and lighting technology were not very advanced. Since 1973, the first energy crisis, we've been working to improve heating and ventilation," Gray said. "The last time I checked, we had cut energy demand by one third [compared to] if we had not taken the measures," added.

"The consumer price index is not a good reflection of the costs we have in a science/technology-based institution," undertaking both renovation and construction, said James J. Culliton, vice president for financial operations.

"The new life-sciences building will have classroom space, faculty offices, and labs," Gray said, answering a question about how much of the building will be devoted to educational purposes. "More than one-half of the biology faculty, along with their graduate students and UROP students, will work there. Without the facility, the faculty would not be able to do their work and biology education for students would be affected as well."

The actual number of students who will be affected may be small, Gray conceded, but the number does not measure the importance of "this world-class department to the Institute." In addition, the bulk of the cost for the new building will not come

from tuition, as it will be built with federal support, gift funds, and tax-exempt bond issues, Gray said.

Joost Bonsen '90 asked if MIT could sustain its need-blind admissions policy in the face of annual tuition and self-help increases.

Gray said that the policy was very important to the Institute. "I was a student and then a faculty member when the policy didn't exist, and I was very aware of the inequities of merit-based scholarships. It is extremely important to tell students to apply and to tell them that aid is available [in order] to preserve the quality of student body."

Gray also repeated his claim that the endowment is not adequate to cover all costs, since some donors put restraints on how the money will be used. "Some gifts don't bear on education at all, and some not on research at all," he said. "We just hope that endowment will grow at least as fast as the inflation rate." The endowment is currently growing around 8 to 10 percent per year.

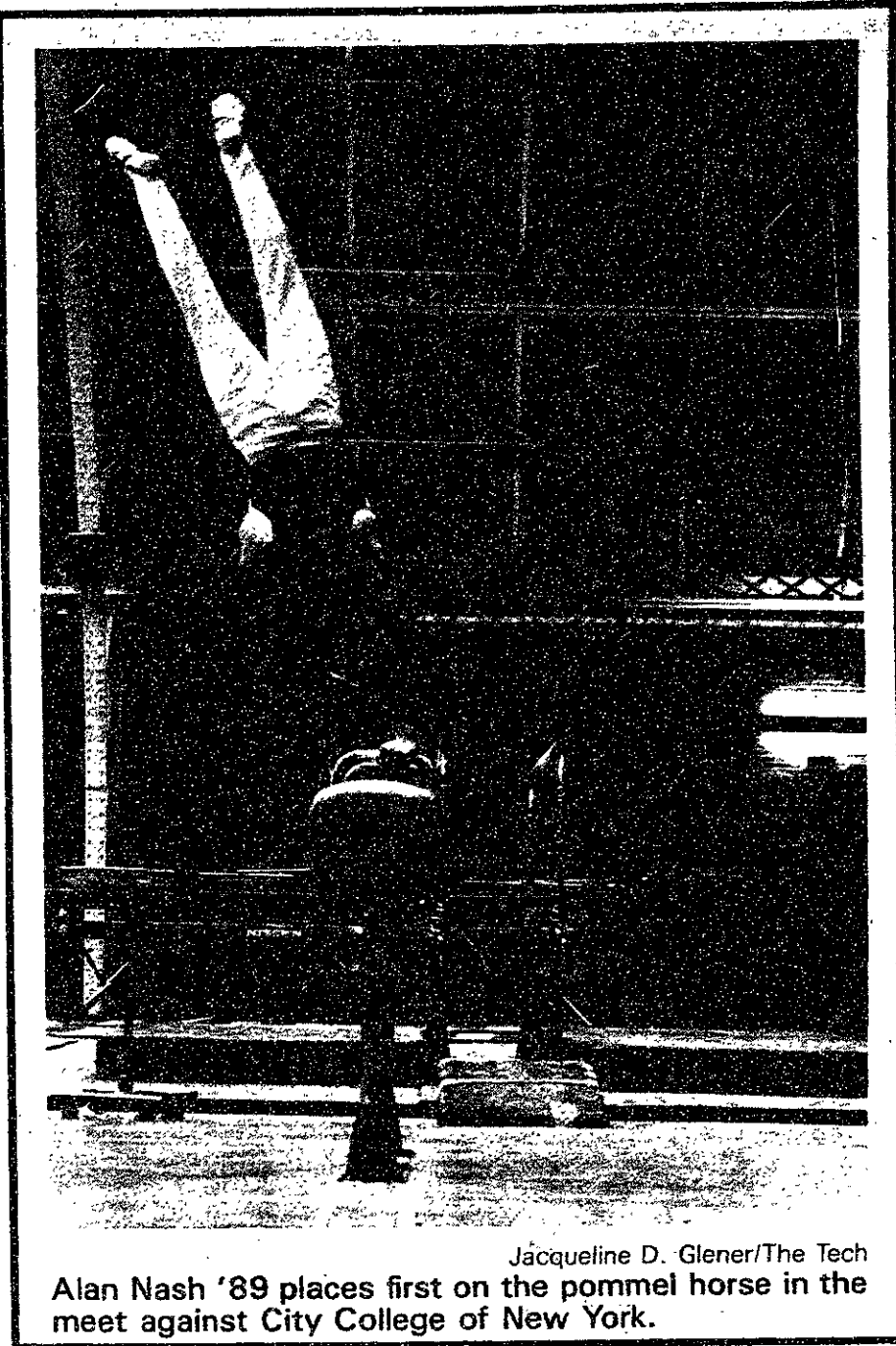
Another student questioned the wisdom of increasing enrollment as a deficit-control measure. Enrollment in the past three classes was cut to ease the housing situation.

In response, Gray stressed the difference between average cost and marginal cost. Whereas average cost per student is about twice tuition (tuition covers only one-half of the cost of education at MIT), marginal cost is very small—about one-third of tuition per student, considering that one-half of the students are needy and that average need is two-thirds of tuition, according to Gray. "However, if we add 5000 students, marginal cost will be much higher," he said.

Though he had not had high expectations, Katz was a little disappointed by the low student turnout. "I hope students realize that they had the chance to ask questions about the changing financial situation at MIT. I did all I could as an elected official and to show that I care. If people don't want to come, there is nothing I can do. I can be the messenger, but I can't dictate the message," Katz said.

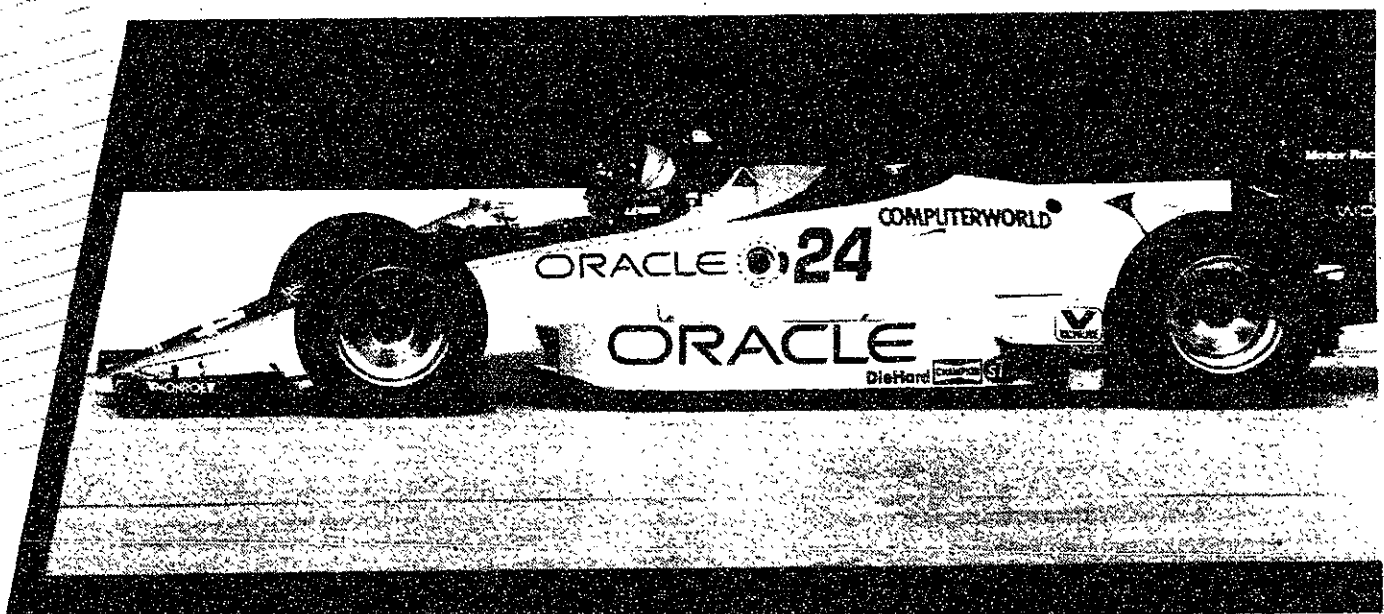
Katz said that though tuition riots were fairly common in the past, the long weekend, the changing student body, and the abundance of other school-wide issues such as the proposed curricular changes, the pornography policy, and the alcohol policy could have affected turnout.

"Students have a limited amount of time," he said.



Jacqueline D. Glener/The Tech  
Alan Nash '89 places first on the pommel horse in the meet against City College of New York.

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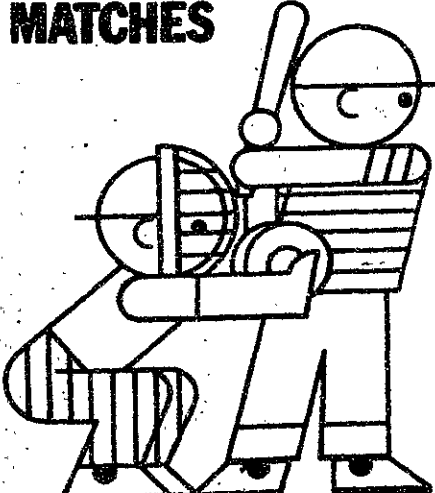
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# TIPS training required for servers

(Continued from page 1)

Among the independent living groups, Frank Oh '89, the pledge trainer for Zeta Psi, made his entire pledge class of 21 freshman take the TIPS training. He believes that in the future, more members of the fraternity will be trained; currently 50 percent of the members are trained.

"Responsible drinking is important wherever drinking goes on," Oh said. "More and more frats will have to realize this. MIT should not have to police the independent living groups. We should police ourselves," he added.

Along similar lines, ODSA or-

ganized a 22-hour, intensive IM-PACT Training during IAP. The program taught practical and preventive skills pertaining to substance abuse, addictive behavior, etc.

Since September, CAO has been using a new party registration form, aimed at better informing registrants of their responsibilities. Nancy Wang '89, social chairperson of 500 Memorial Drive, said that the new form, which requires the registrant to initial each printed guideline, has made her more aware of the Massachusetts laws and liabilities. She thinks that a lot of the students, including

those running for UA offices, do not comprehend the magnitude of the liabilities.

Harms believed that "increased awareness keeps people from getting hurt and teaches them to be more responsible." At the same time, she noted, "We don't want to go dry." Harms feels MIT is receiving a lot of pressure from its lawyers concerning alcohol-related liability to MIT. This may partially explain the stricter enforcement and heightened concern, as well as the policy revision discussion.

The primary focus of the institute is to "get people [to be] aware of the alcohol policy," Hinds said.



Heat's such as this ran continuously all morning at the C.R.A.S.H.-B. sprints last Sunday. Each participant was timed for a 2500 meter "row".

Kristine AuYeung/The Tech

Quantum Chemical Corporation



Quantum Chemical Corporation, USI Division, will sponsor a reception in Building 4, Room 149, on March 1, from 6:00 to 8:00 pm. Speakers will be Ken Auer, Business Manager, Colors & Concentrates, a former Alumnus, and Medardo Monzon, Research Manager, R & D Planning. Refreshments will be served.

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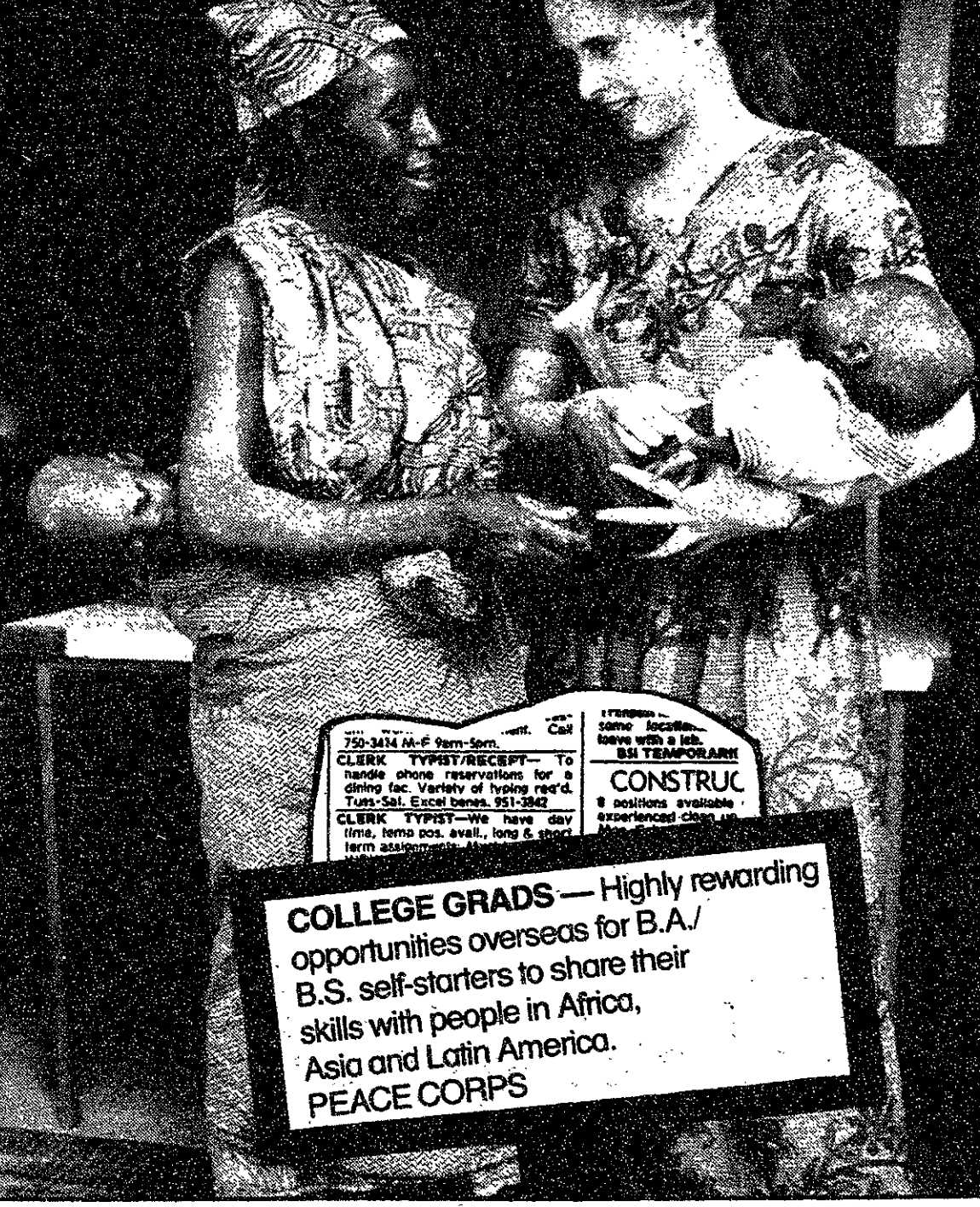
- February 27 "Pressures"
- March 6 "Relationships"
- March 13 "What Happens When It All Gets To You"
- March 20 "Getting Back on Track: Strategies for Coping"

Join Jackie Simons (ODSA) and Margaret Ross (Medical) for juice, cookies, and talk on four topics of concern to undergraduate and graduate students. Drop in at any or all of the sessions; no prior registration needed.

**MONDAYS**  
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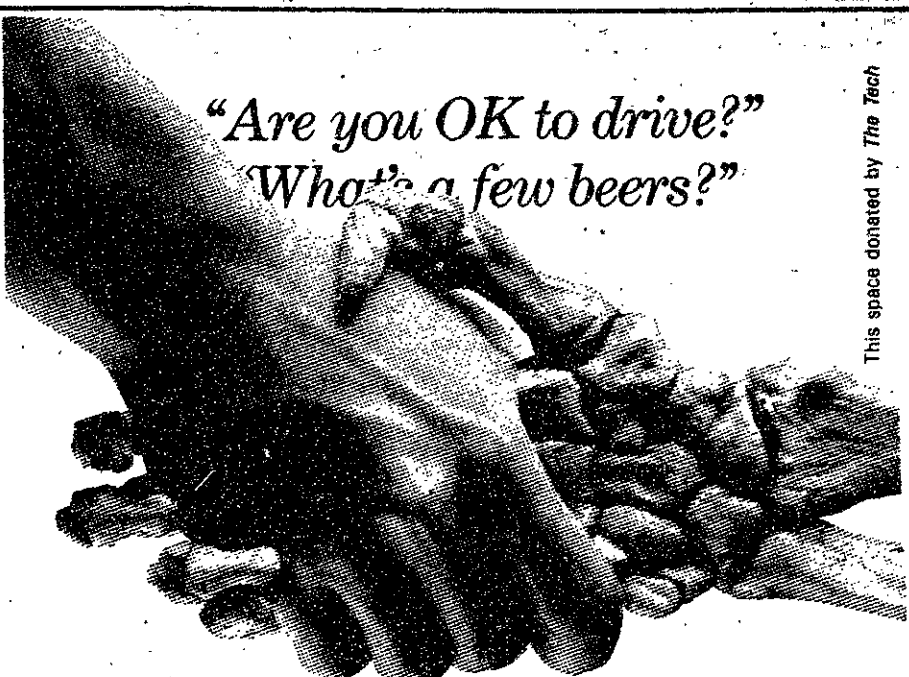
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- INFORMATION BOOTH - Mon., March 6 from 10 - 2pm in Lobby 13.
- ON-CAMPUS INTERVIEWS - Sign up in the Career Services Office.



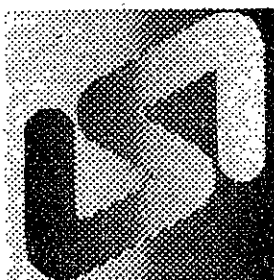
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# notices

## Listings

Student activities, administrative offices, academic departments and other groups — both on and off the MIT campus — can list meetings, activities, and other announcements in *The Tech's* "Notes" section. Send items of interest (typed and double spaced) via Institute mail to "News Notes, *The Tech*, room W20-483," or via US mail to "News Notes, *The Tech*, PO Box 29, MIT Branch, Cambridge, MA 02139." Notes run on a space-available basis only; priority is given to official Institute announcements and MIT student activities. *The Tech* reserves the right to edit all listings, and makes no endorsement of groups or activities listed.

### Friday, Feb. 24

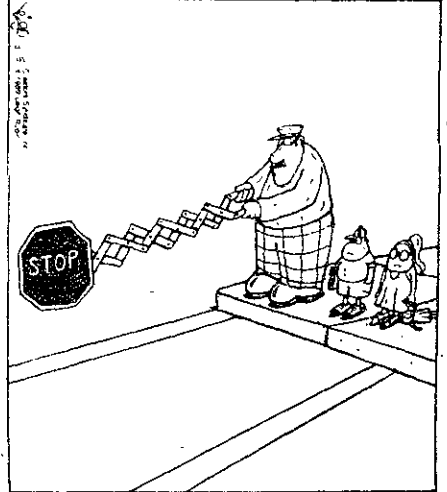
There will be a forum entitled **Lessons of the Civil Rights Movement: The Class Struggle Road to Black Freedom** on Friday, February 24 at 7:30 pm at Harvard University, Emerson Hall, Room 305. For more information, call (617) 492-3928 (evenings).

MIT's annual **Alternative Jobs Fair** will be held on Friday, February 24 from 10-4 in the Sala de Puerto Rico. In addition to the fair, Paul Rosier, vice president of Career Concepts, will discuss "Alternative Jobs in the Software Industry" at 11 am and Chuck Coldert and Anna Aurolio of MassPIRG will address "What is Public Interest Science?" at 2 pm.

### Saturday, Feb. 25

Warner Recording Artist **Farrenheit** will headline a benefit concert to promote POW/MIA awareness on Saturday, February 25. This event will be held in Boston University's Sargent College Gym, 750 Commonwealth Avenue, Boston and will

Rubes By Leigh Rubin



Frank wondered if the children could sense his lack of confidence.

Rubes By Leigh Rubin



Another reason why two heads are better than one

begin at 8 pm. Tickets are \$6 in advance or \$8 at the door. For more information, call Cadet Russell Towne at (617) 353-4707.

### Sunday, Feb. 26

Jane Jenson, visiting professor at Harvard University, will speak on "The NDP and the Future of the Canadian Left" on Sunday, February 26 at the Workmen's Circle, 1762 Beacon Street, Brookline. There will be a potluck dinner at 6 pm followed by the forum at 7:30 pm. For more information, call (617) 426-9026.

### Monday, Feb. 27

Senator **Tim Wirth** (D-Colo.) will be speaking on "Political and Governmental Impact of the Greenhouse Effect" on Monday, February 27 at 10 am on the 3rd floor of the State House. Please RSVP, (617) 727-4596.

### Tuesday, Feb. 28

Noam Chomsky will speak on El Salvador at MIT, Room 26-100 on Tuesday, February 28 at 8 pm. The talk is sponsored by the Central America Solidarity Association and a donation of \$3 is suggested. For more information, contact Doug Matthews at (617) 492-8699.

### Wednesday, Mar. 1

Andrew Bard Schmoekler will be speaking on "The Causes and Cures of Human Destructiveness" on March 1 at 7 pm in the Macht Auditorium, Macht Building, Cambridge Hospital, 1493 Cambridge Street. For more information, please call (617) 497-1553.

Seyom Brown, Professor of Politics, will speak on "The Causes of War" at the Cambridge Forum, 3 Church Street, Harvard Square on Wednesday, March 1 at 8 pm.

### Thursday, Mar. 2

The MIT Japan Science and Technology Program will present a talk entitled "Reflections on the Physical and Intellectual Environment at Hitachi Central Research Laboratories" by Dr. Lance A. Glasser. Admission is free and open to the public. Call Kathy Schaefer at x3-2839 for more information.

### Friday, Mar. 3

There will be a reception for Salvadoran students' delegation, with members of AGEUS (Salvadoran Students Union) and FERS (Revolutionary Student Front). The reception will be held in the Washburn Lounge of the Episcopal Divinity School, 99 Brattle Street, Cambridge. Donation: \$5-\$15. For more information, call (617) 492-8699.

### Sunday, Mar. 5

The Computer Museum will present a lecture "Computer Sound Illusions: A Musical Resource for Now and the Future" by French composer Jean-Claude Risset at 3 pm in the auditorium of The Computer Museum at 300 Congress Street. Lecture free with the price of admission. Call 426-2800 for more information.

### Wednesday, Mar. 8

Marvin Miller will speak on the topic "Nuclear Proliferation: A Look Ahead" at the Cambridge Forum, 3 Church Street, Harvard Square on Wednesday, March 8 at 8 pm.

Rubes By Leigh Rubin



Billy hit a Homer.

## Opera House BOSTON

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Saturday, March 18



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The Class of 1991 Ring Committee, in conjunction with the Ring Premiere, challenges their classmates to be first to solve "The Rat's Riddle." In the upcoming issues of *The Tech*, clues leading to the name of a distinguished MIT alumnus will be published in this cartoon, "The Rat's Riddle," named after the "Brass Rat" ring. Members of the Sophomore Class are invited to solve the riddle by piecing clues together and arriving at the correct alumnus name. The first student to correctly identify the alumnus will receive half off his/her 10K ring.

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HEWLETT  PACKARD

## NIH panel finds no evidence of fraud

(Continued from page 1)

the authors felt vindicated by the NIH report, according to Alfred Kildow, a spokesman for the Whitehead Institute. "The report demonstrates the accuracy of the authors' judgment that their research was worth publishing," he said.

The authors have drafted a suggested letter of correction and passed it on to the director of NIH for comment, Kildow said. Some scientific points still need to be discussed and clarified, he added.

According to Bick's memorandum, the authors initially disputed the significance of some of the errors pointed out by the panel and disagreed with the need to send a corrective letter with substitute data. However, they did agree to provide *Cell* with a re-

port outlining the problems related to the reagents and assays used in the experiments.

Kildow disagreed with Bick's criticism that the authors had failed to suitably address questions of error and judgment, saying that the authors felt they had "seriously considered" the objections raised by a postdoctoral fellow which led to the investigation of the research.

### History of the controversy

The paper detailed the results of NIH-sponsored research into changes in the production of antibodies by mice after certain genetic alterations. Some statements in the paper and its conclusions were disputed by a member of the research team, who claimed she was unable to duplicate the results of the experiment.

When Margot O'Toole, then a postdoctoral researcher for one of the paper's authors, attempted to bring her differences to her superior, she was rebuffed and sent to tend the breeding of laboratory mice, she claimed in testimony before a congressional subcommittee, which held hearings on the matter last April.

O'Toole accused Baltimore of obstructing her attempts to correct errors in the paper. She said

Baltimore told her he would write a rebuttal if she attempted to submit a letter of correction to *Cell*.

Last November, the authors did submit a letter of corrections to *Cell* which was printed on Nov. 18, 1988. The researchers acknowledged three "incidences of misstatement," but concluded that they "are not material alterations" and "do not affect the conclusions of the paper." The report of the NIH scientific panel states that this letter did not fully explain the paper's deficiencies.

Investigative committees at MIT and Tufts found no evidence of fraud or misconduct on the part of the paper's authors, although the MIT investigation turned up a minor error deemed too insignificant to warrant a letter of correction.

The dispute eventually attracted the attention of the House Subcommittee on Oversight and Investigation, which was investigating the adequacy of institutional response to charges of scientific fraud. NIH also began an investigation of the incident shortly thereafter, although the first panel it assembled had to be dismissed because two of its three members had previously published papers with Baltimore.

## Cohen relates ice cream with world peace

(Continued from page 2)

ganda. He also mentioned his attempts at a joint ice-cream venture in the Soviet Union. Progress in "ice-cream diplomacy" has been slow, he explained, because of the language and time zone barriers: "When it's day here it's night over there. And you pick up the phone and they talk Russian."

The mission of the Alternative Jobs Fair is to acquaint seniors with jobs outside the military-industrial complex, and Cohen advised his captive audience that they should choose to work for organizations, be they for profit or not, whose "values" jibed with their own. His mission, should MIT students choose to accept it, is to "start integrating our values with our worklife." Cohen, who drives a SAAB, reminded students that the world has the resources to end suffering and that everyone should pitch in: "I kept wondering why somebody doesn't do something. Then I realized I am *somebody*." To conclude his applause-riddled talk, he scratched his beard, tugged on his dangling shirt-tails, and offered everyone a Peace Pop.

## Student-built robots battle in "6.270"

(Continued from page 2)

Schaafschmidt's partner, Ed Tobin '92, said that it "was definitely worth it, even if you lose." He added that one of the best parts of the contest was that it was entirely student-run.

Rosalie Schneider '91, a member of the audience, said that the contest was "hilarious," but she was disappointed "not to see all of the models work."

One senior in attendance thought that the contest was "really disappointing." She added, "most of the robots didn't get to the top [of the mountain]," that they were "unreliable," and that "maybe [the participants] didn't have enough time to work on the machines." Others echoed that sentiment, and added that perhaps the contest would have been more successful had the machines been more powerful, or the mountain less steep.

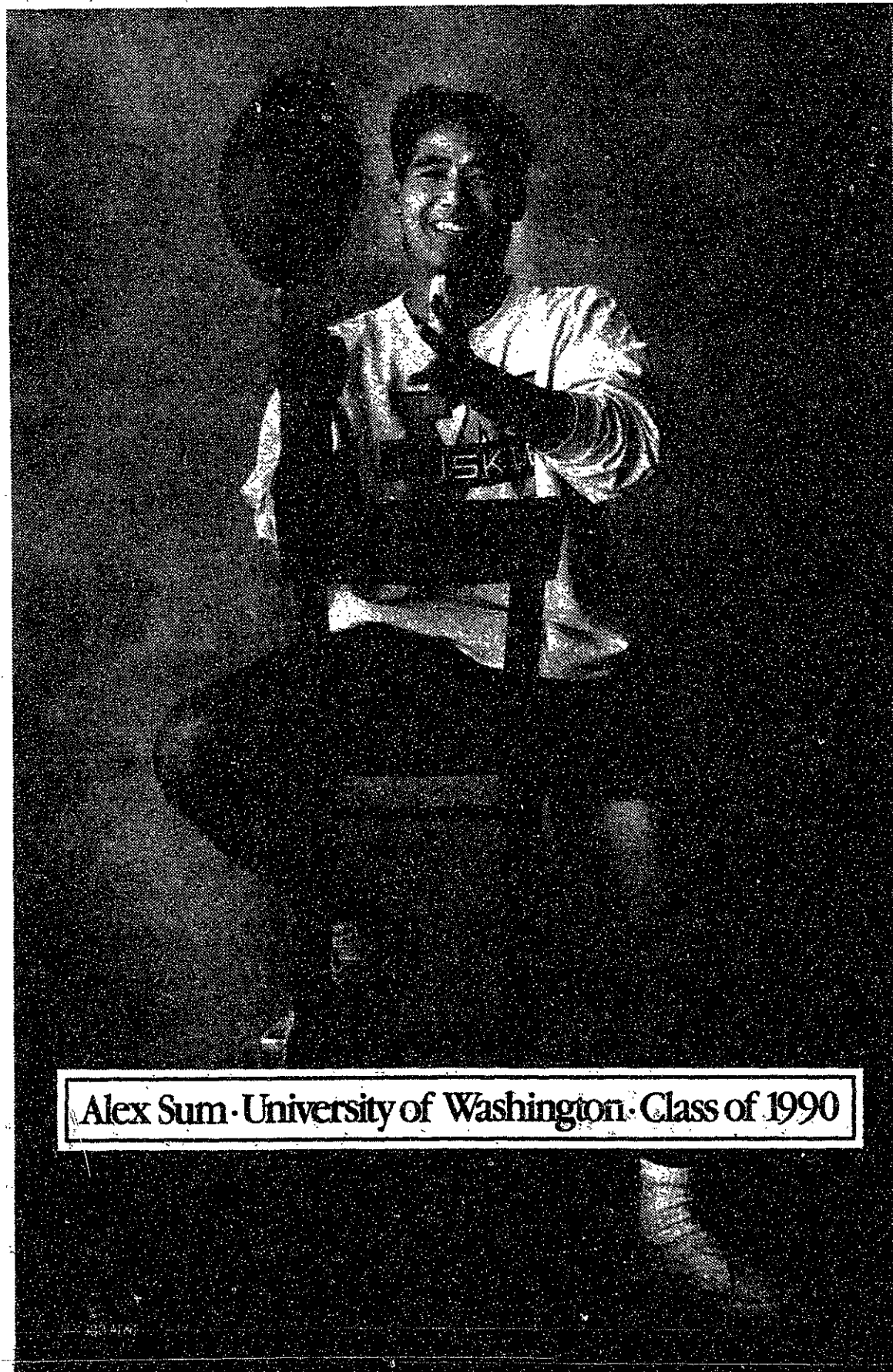
Karen Hargrove, representing Microsoft, said that the contest was "fantastic," and that "Microsoft is proud to sponsor such talented people and help in their endeavors." Hejna, smiling broadly after the contest, said that "it was a lot of fun."



Andy Silber

Ike and the Cold Warriors features Tim Day '89 on vocals and Mike Foley '87 on the drums. Other members of the band include Shin "Panda" Hirose '90 on bass and guitarist Larry Donahue '90. The group participated in the *Battle of the Bands* a week ago.

"I wasn't rubbing it in—I just wanted Eddie to know the score of last night's game."



Alex Sum · University of Washington · Class of 1990

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# sports

## Hockey romps over Gordon

By Henry Dotterer

If it can be said that this season proved disappointing to the men's hockey team, it can also be said that it ended on a high note. Led by co-captains Joe Jones '89 and John Santoro '89, each with four goals, the team vented its frustration in a 19-5 romp over an impotent squad from Gordon College.

Only 2:45 into the first period, Jeff Bates '90 dished off to Mike Westphal '90 who blasted a low slapshot past the Gordon goaltender. This was the first of six assists for the unselfish Bates, who passed the 100-point mark for his three years of play.

The Beavers struck again four minutes later as Brian Vimmer G slipped the puck in unassisted. The team never let up, relentlessly frustrating Gordon's defense. Santoro scored the next two goals, both assisted by Bates, and then Jones controlled the puck in the Gordon zone, circling to the front of the net before snapping the puck into the upper corner. These two provided the leadership for the Engineers, both turning in sterling performances in the final game of their MIT careers.

Per-Gunnar Ostby '89 scored next, on a feed from Santoro, and Jason Krieser '91 added another within the minute on a pass from Tom Dorf G and Mike Quinlan '92. With 54 seconds left in the period, Brian Lushwitz '89 added the eighth goal.

Geoff Stevens scored Gordon's only goal at 11:50 in the first period.

The Engineers stared out the second period controlling the tempo and working the puck around. It seemed at times as though MIT was working the power play when both teams were at full strength. The game started to settle down a bit, but seven minutes into the second period, the band whipped into another verse of Yankee Doodle as Jones found the back of the net for the second time. A few minutes later, Dorf added goal 10 on a hard shot that seemed to go right through the Gordon goalie. Lushwitz then scored his second unassisted goal, walking the puck in and hitting his target with a textbook wrist shot.

The quality of play had picked up in the second period; no longer were the players content to score the sloppy goals, but chose rather to work plays, freewheeling with pretty passes. The next goal went from Eugene McKenna '92 to Dorf to Mike Foley G who slammed the puck past the dazzled Tozier. Santoro then stole the puck as a Gordon defender tried to cross to his teammate and walked in unobstructed for his third goal and the team's 13th. With 30 seconds left in the period, Matt Davidson scored Gordon's second goal, assisted by Stevens and Doug King.

MIT produced six more goals in the third, one shy of the 20 mark the spectators clamored for. Meanwhile, Gordon surprised the Beavers with three goals of their own, showing the character of that team. They were able to take advantage of Anand Mehta G's inexperience. Nevertheless, Mehta performed admirably despite the fact that he was making his debut in this contest.

Third period Engineer goals were scored by Jones (2), Santoro, Kimmel, Paul Tiao '89 (who also had two assists on the evening, and who excited the

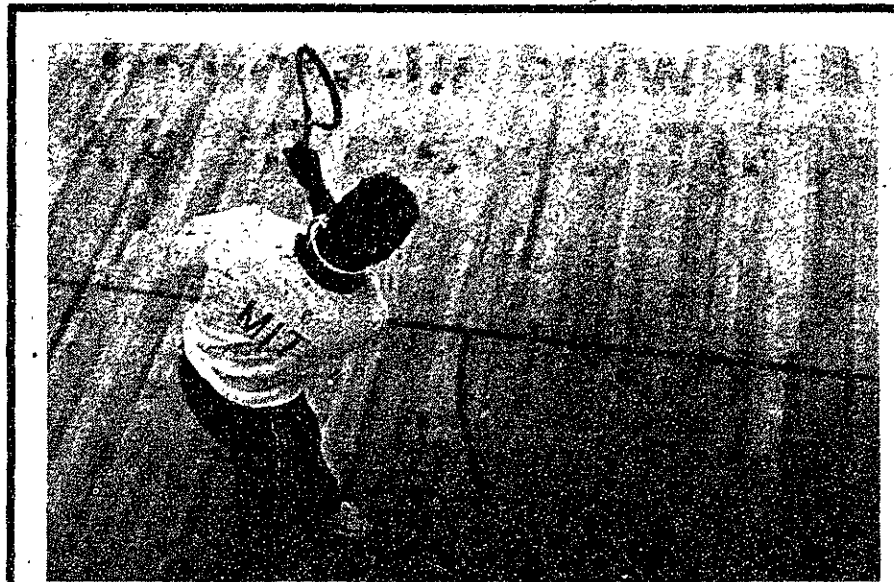
crowd repeatedly with fancy stick handling) and Mike Quinlan. Quinlan was stymied several times by Tozier in the final period, but was able to finally life a pearl of a backhand shot over the suddenly-hot goalie's left shoulder.

Gordon's goals came from King, Andy Wilson, and Chris Yingst.

This certainly was an uplifting end to the Beaver's season. Despite the loss of Santoro, Jones, Tiao and Lushwitz to graduation, the team is looking forward to a strong 1989-90 season. Goalie Miles Arnone '91 returns,

while three of the four defensemen also are expected back; Quinlan, McKenna, and the injured Henry Dotterer '91 who missed the last four games of this season. Leading scorer Bates returns, and youngsters Jeff Scharf '92 and Krieser add promise to MIT's front corps. Westphal brings his talents back for one final season, while veteran Foley hopes to play yet another year. Ostby, who was abroad the greater part of this season, should help the team next year.

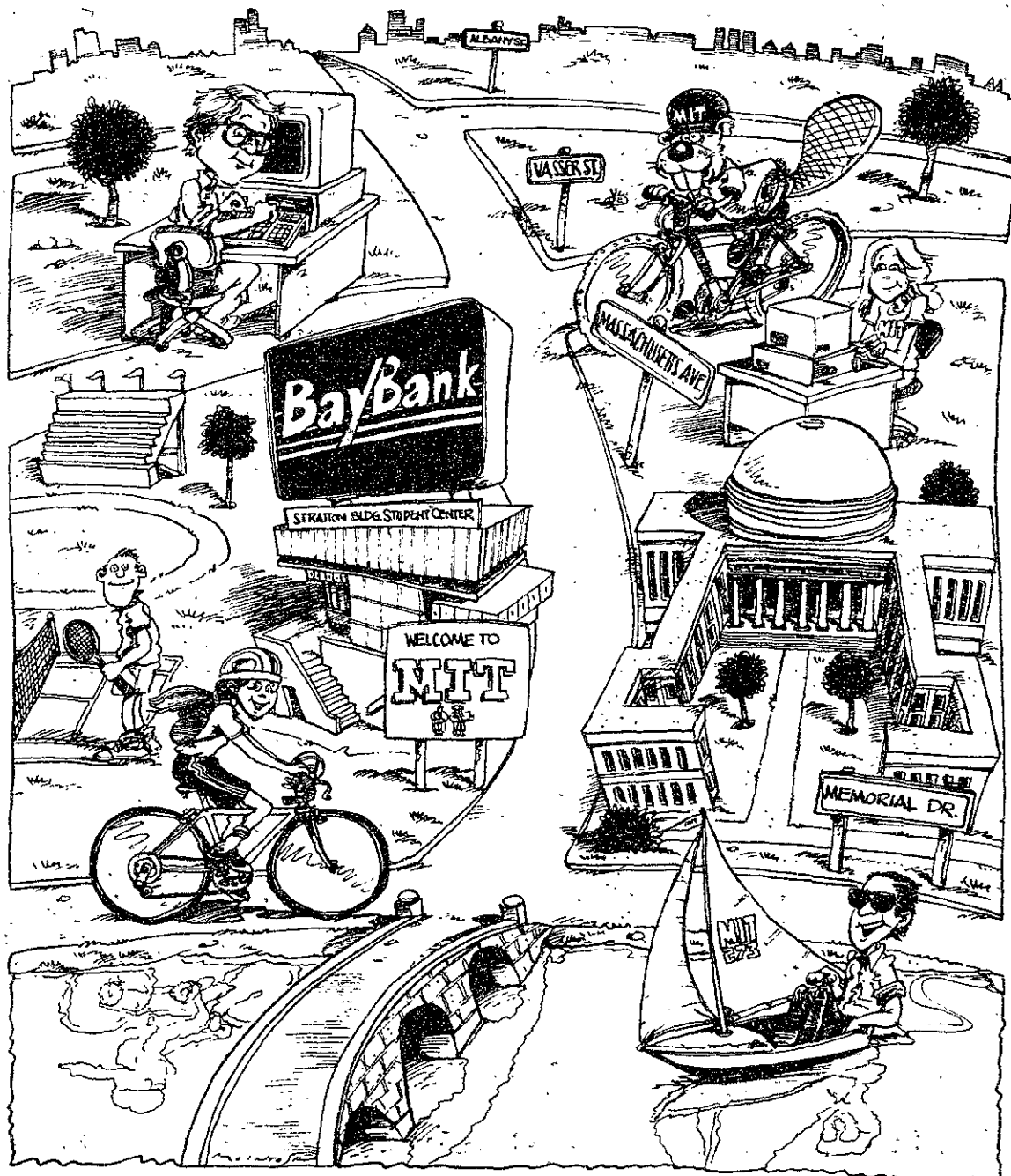
(Editor's note: Henry Dotterer '91 is a member of the men's varsity hockey team.)



Julian Iragorri  
Anthony Joules '91 plays squash against University of Connecticut on Saturday, February 18th.

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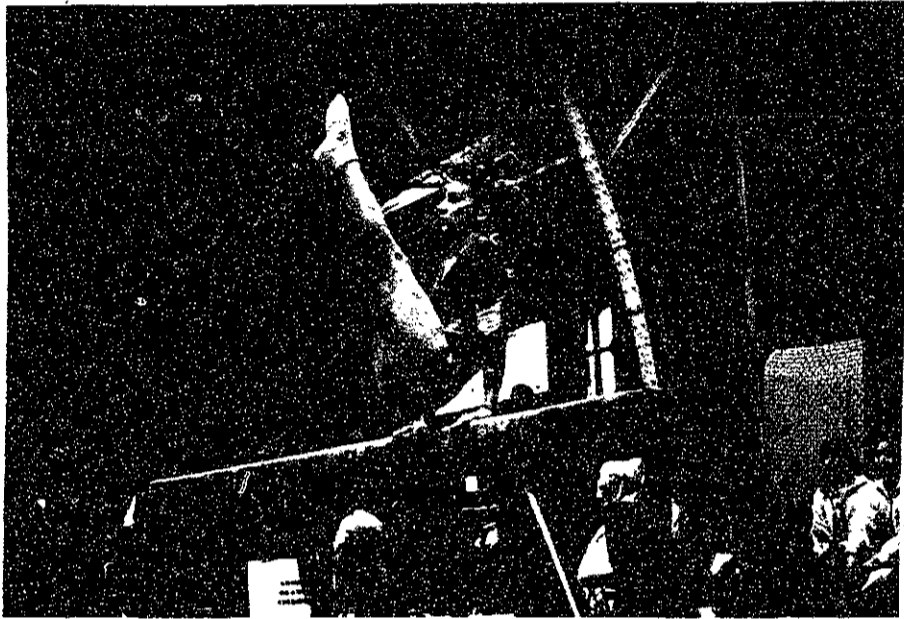
# sports

## Arel dominates gym meet

(Continued from page 20)  
MIT wrapped up the meet on the uneven bars where the Engineers definitely had their best performance of the season. Arel assured herself of her all-around victory as she swung her way into a New England Championship victory with a score of 8.95 on a flawless bar routine, yet another MIT record on the event. Arnold had yet another beautiful bar routine with two free-hip handstands on the high bar and a straddle back to a handstand over the low bar for a score of 8.45 which earned her fourth place overall in the meet on the event. Leabourne made two cut-catches in a row and stuck a full-twisting dismount for a score of 7.3. Christine Pao '90 executed a beautiful straddle-back release move over the low bar and stuck

her whole routine while Catherine Rocchio also completed her entire routine which included a half-twisting handstand on the low bar for a score of 7.2.  
Overall, MIT has had their best season ever, losing only to Salem State. The team qualified for the Eastern College Athletic Association Championships being held at Trenton State this Saturday. In addition to this first ever honor for the team, Arel has qualified for the national championships being held in Wisconsin the following weekend. Meanwhile, MIT looks forward to closing the gap between themselves and Salem State this weekend if not finally overtaking them.

(Editor's note: Catherine Rocchio '89 is a co-captain of the women's gymnastics team.)



Mark S. Abinante/The Tech  
Beautifully posed on the beam, Kortney Leabourne '92 performs spectacularly at the New England gymnastics meet.

## Pizza Hut names two Beavers to All-America football team

### Sports Update

#### anchors on offense and defense honored

Two Beaver football players have been named honorable mention selections to the Pizza Hut Division III football All-America Team. Offensive guard Bob Kupbens '90 and linebacker Darcy Prather '91 were each selected by a nationwide panel of sports information directors.

Kupbens, at right guard, is MIT's largest offensive lineman. The Beavers ran to his side nearly 70 percent of the time in 1988 while piling up 193 rushing yards per game and another 108 yards per game through the air. Kupbens was a club football All-American his freshman year, and although a broken hand hampered his play as a sophomore, his efforts in 1988 earned him his second all-league selection in the New England Collegiate Football Conference.

"He has played through injury, and is one of the finest leaders we have on the team," said Head Coach Dwight Smith. "Opposing coaches know we run mostly to his side, but there is little anyone we have played has been able to do to neutralize Bob."

Prather shattered the MIT single season tackle record he had set as a freshman (95) by participating in 117 stops (37 unassisted). He led the Beavers in tackles in six of seven games. A two-time All-NECFC pick, Prather averaged 16.7 stops per game in 1988. He also blocked a kick, led the team with six sacks, and had three pass break-ups.

"Darcy Prather is the best linebacker we've had here in the 11 years we've been playing football," Smith asserted. "Despite his relatively modest size, Darcy

is one of the hardest hitters we've ever had. It's easy to look at his statistics and feel his numbers are inflated, but I offer our game films to help convince any doubters. Darcy Prather was our defense in 1988.

#### Basketball having one of best seasons ever

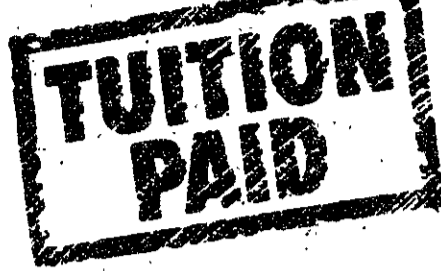
The men's basketball team's 13 wins this season is the best at the Institute since the 1967-68 team won 16 games on its way to a 16-9 record. The most victories ever in a season for the squad is 17, set in the 1961-62 season. That team finished the season with the best winning percentage in the history of the program (.810). The team is nationally ranked in several categories including rebound margin (second), scoring defense (11th), and field-goal percentage defense (14th). Center Trae Shattuck '90 is 22nd in the nation in Division III in field-goal percentage, hitting on 60.2 percent of his shots.

#### Ski team wins first championship

The ski team captured the Eastern Intercollegiate Ski Association Division II championship for the first time ever last weekend. The Engineers placed first in the four-event meet despite having their number one alpine skier fall in both the slalom and the giant slalom events. The 3x10-kilometer relay team of Terry Tote-meier '91, Tim Sulzbach '89, and Steven Bull '89 defeated Harvard University's entry by 1:03 to win the event and the championship. All three members of the victorious relay team are all Minnesota natives.

Compiled by the MIT Sports Information Office

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# sports

## Injury-plagued men's track team loses to Brandeis

(Continued from page 20)

Those early performances included Deering's work in the throwing events, as he threw the weight 58'9 1/4" to win by over 2 1/2 feet, and putted the shot 48'11 1/4".

Paul McKenzie '90 recorded 10 points for the Engineers on the strength of a second place in the high hurdles (in 7.93 seconds, a personal best) and a fifth in the 200-meter dash. McKenzie also ran a hard, if futile, leg for the 1600-meter relay team — which did not place — earning him praise from Kelly.

John-Paul Clarke '91 picked up an important fourth in the

weight throw (51'1 1/4") and Chris Masalsky '91 a sixth in the shot put (45'3 1/2") to give MIT a total of 25 points in the throwing events alone, a strong start.

Freshman Kevin Scannell added to that total with nine points in the jumps, as he finished second in the long jump, at 22'4", and sixth in the triple, at 43'1 3/4".

Brandeis started slowly, scoring only four points in the field events, compared to MIT's 34. But after 12 points in the high hurdles — McKenzie's second place and freshman Dean Moon's fourth — MIT managed only 16 points, while Brandeis ran to the

tune of 78. The Engineers were especially hurt in scoring only one point in the set of middle-distance races (400, 500, 800 and 1000 meters).

That lone point came from Kyle Robinson, a senior co-captain, in the 1000. Robinson coasted to a 2:35.90 win in his semi-final heat, but was unable to repeat the performance in the final, finishing sixth in 2:56.03.

Earlier in the day, Mike Piepergerdes '92, a regular point-scorer during the regular season, failed to score in the 1500 meters. Piepergerdes was seeded second in the race. Starting out slowly, in fifth place, Piepergerdes moved up to third on the second lap around the Academy's 180-meter track. He maintained his third place for three laps of the 8 1/2-lap race, but faded midway and finished just shy of sixth place, in 4:08.42.

David Wright '89 picked up two points with a fifth-place finish in the 55-meter dash, crossing the line in 6.84.

Senior Eugene Tung ran a slowish 15:11.5 for third place in the 5,000 meters, but MIT needed more points in that race as well, from both Tung and Sean Kelley '89, who entered the race as the top seed but did not score.

With injuries taking a grand toll on the team, Coach Kelly admitted that "everybody had to compete to their full potential" in order for MIT to contend for first place against a decent Brandeis squad. An unfair amount of pressure was placed on the shoulders of the several freshmen competing, he said.

Tom Washington '92, a regular 6'4" to 6'6" high jumper, was unable to clear the starting height of 6'2". Although his torso easily cleared the bar on all three attempts, he caught the bar with his feet each time.

As the day's competition wound down, the 3200-meter relay teams circled the track, running for final honors for their schools. The meet's winning and second-place teams had been determined.

Brandeis Coach Norman Levine, stopwatch in hand, slowly paced the infield with occasional words of encouragement for his runners, who would place second.

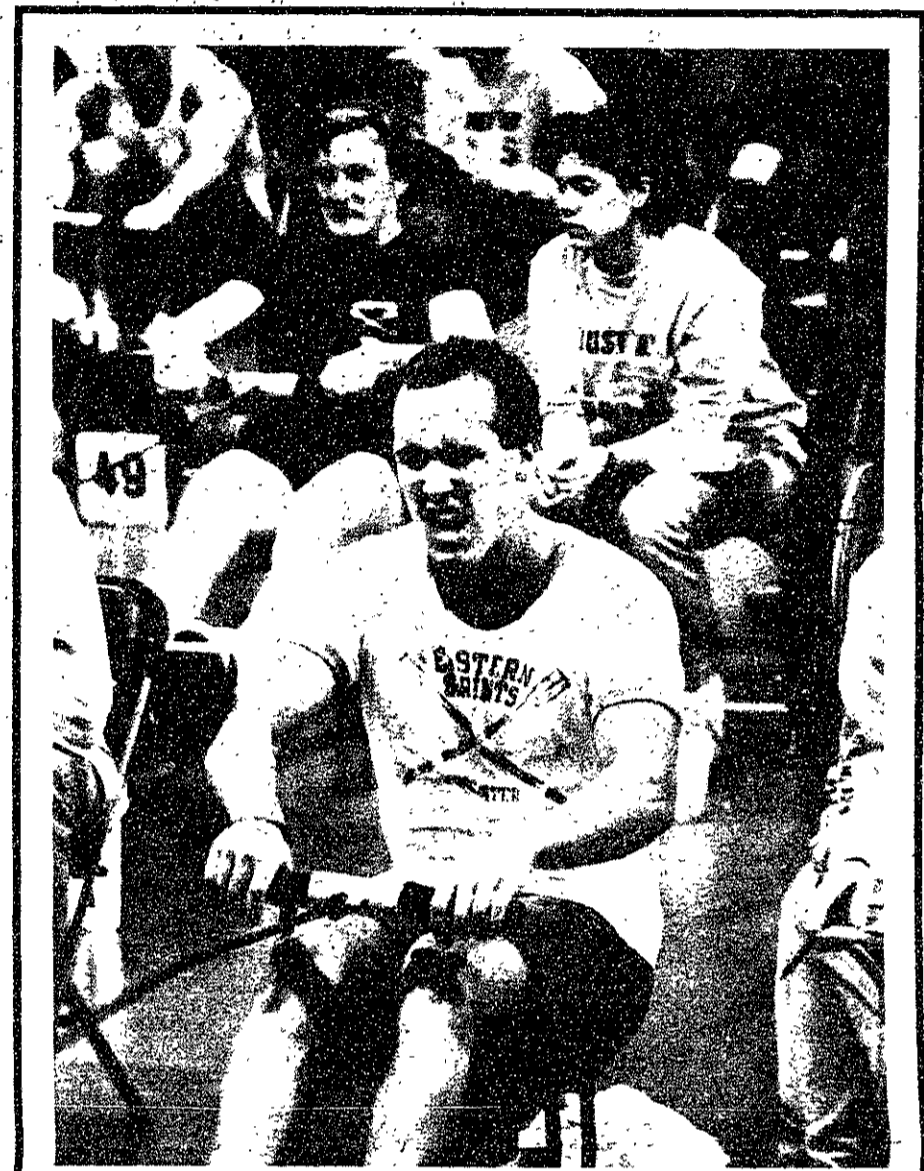
"That really is a shame," he said, referring to MIT's number of injuries.

"Obviously, we are happy to win," he said. "But we would have been happier to win if MIT [were] healthy."

It seems as though he was not the only one that would have been happier, if the would haves and the could haves and the should haves had indeed been.

### Indoor Track at New England Div. III Championships

- |  |  |
|--|--|
| <b>Pole vault</b> - 1, Brutsaert, WPI, 14'0"; 2, Guterman, Bowdoin, 14'0"; 3, Myers, Norwich, 13'0".   | <b>500 meters</b> - 1, Geikie, Bates, 1:07.30; 2, Moore, Brandeis, 1:07.30; 3, Williams, Brandeis, 1:07.87.  |
| <b>High jump</b> - 1, Schechter, Bates, 6'8"; 2, Dickerson, Coast Guard, 6'6"; 3, Rosenkoetter, Bowdoin, 6'6".   | <b>800 meters</b> - 1, Forde, Brandeis, 1:55.92; 2, Thomson, Bates, 1:57.92; 3, Nadelman, Williams, 1:58.62.   |
| <b>Long jump</b> - 1, Arauljo, SMU, 22'6 1/4"; 2, Scannell, MIT, 22'4"; 3, Farley, Coast Guard, 22'1 1/4".   | <b>1000 meters</b> - 1, Campbell, Westfield, 2:33.70; 2, Hammond, Brandeis, 2:34.41; 3, Dimick, Brandeis, 2:35.09; 6, Robinson, MIT, 2:56.03.  |
| <b>Triple jump</b> - 1, Woodhouse, Westfield, 46'8 1/2"; 2, Igharo, Williams, 46'4 1/2"; 3, Farley, Coast Guard, 45'8 1/2"; 6, Scannell, MIT, 43'1 3/4". | <b>1500 meters</b> - 1, Evans, Amherst, 3:57.60; 2, Dillon, Bowdoin, 3:57.80; 3, Smith, UMass/Boston, 3:59.57.   |
| <b>Weight throw</b> - 1, Deering, MIT, 58'9 1/4"; 2, Goodrich, Bates, 56' 1/4"; 3, McGinn, Williams, 51'1 1/4"; 4, Clarke, MIT, 50'10 1/2".              | <b>5000 meters</b> - 1, Gaebel, Westfield, 15:03.3; 2, Palmer, Brandeis, 15:07.7; 3, Tung, MIT, 15:11.5.   |
| <b>Shot put</b> - 1, Deering, MIT, 48'11 1/4"; 2, Goodrich, Bates, 47'4"; 3, Egan, Norwich, 47'1 1/2"; 6, Masalsky, MIT, 45'3 1/2".                      | <b>Distance medley relay</b> - 1, Amherst, 10:32:54; 2, Bowdoin, 10:33:26; 3, Brandeis, 10:38:09; 6, MIT (Dighe, Moose, Caeau, Piepergerdes), 10:55:48.  |
| <b>55 meter dash</b> - 1, Moda, Fitchburg, 6.56; 2, Drony, Brandeis, 6.63; 3, Dawkins, Westfield, 6.63; 5, Wright, MIT, 6.84.                            | <b>1600 meter relay</b> - 1, Fitchburg, 3:29.30; 2, Brandeis, 3:29.86; 3, Amherst, 3:30.05.  |
| <b>55 meter hurdles</b> - 1, Lee, Brandeis, 7.83; 2, McKenzie, MIT, 7.93; 3, Sprague, WPI, 8.10; 4, Moon, MIT, 8.12.                                     | <b>3200 meter relay</b> - 1, Tufts, 7:59.80; 2, Brandeis, 8:06.70; 3, Coast Guard, 8:12.79; 4, MIT (Kowalski, Robinson, Getrich), 8:15.35.   |
| <b>200 meters</b> - 1, Moda, Fitchburg, 22.7; 2, Wyeth, Fitchburg, 23.26; 5, McKenzie, MIT, 23.42.   | <b>Brandeis 94, MIT 62, Fitchburg State 53, Coast Guard Academy 50, Bates 49, (tie) Westfield State 49, Bowdoin 36, Tufts 31, Amherst 28, (tie) Williams 28, WPI 20, SMU 18, UMass/Boston 14, Norwich 12, Trinity 6, Wesleyan 5.</b> |



Kyle G. Peltonen/The Tech  
Heavyweight Carl Lienert '89 pulls hard on an erg in the Charles River All-Star Has Beens (C.R.A.S.H.-B.) Sprints. The international indoor rowing competition was held last Sunday at MIT.

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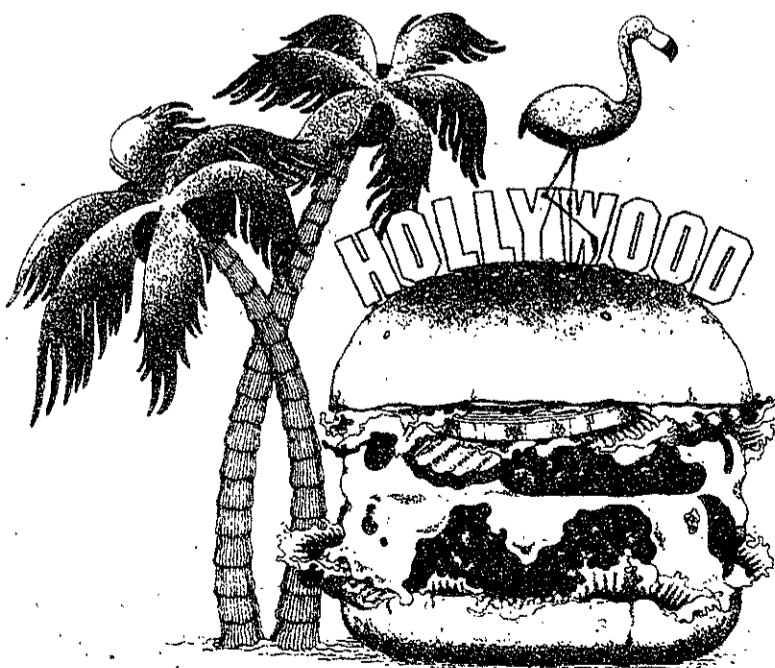
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3 Friday, February 24  
8:30 pm  
MIT Walker Hall, Blue Room  
(second floor, enter thru Pritchett)

2 Shabbat Dinner, 6:45 pm, Blue Room.  
Reservations due by Feb. 23

Conservative/Reform Services, 5:30 pm, Hillel  
Orthodox Services, 5:05 pm, Burton

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# sports

## Women's gymnastics takes 2nd in championships

By Catherine Rocchio

Freshman Lisa Arel made MIT sports history last weekend, becoming the first Engineer gymnast ever to win the all-around title at the New England Division III Championships. In addition to this honor, MIT also placed second as a team, losing by only five points to three-time defending champion Salem State College.

Placing second at the meet, which was held at DuPont Gymnasium, was an incredible achievement for the team. They had finished only fourth the previous year with a team score of 121.0. For the third consecutive meet this season, the Engineers' performance set a new record team score; their newest mark is now 159.7.



Arel, who finished first on the balance beam and on the uneven bars while coming in second on the vault and third in the floor exercises, wrested the all-around crown away from two-time defending champion Jill Russell of Salem State. Arel's score of 35.45 edged out Russell, who finished first on the vault and the floor exercises, second on the uneven bars, but only fifth on the balance beam, by six tenths of a point. MIT and Salem State have met three times this season, and each time Arel emerged first in the all-around; before this season, Russell had never lost in competition.

MIT led off the meet on the balance beam where Arel's two backhandsprings and full-twisting dismount earned her an 8.7

to take the title of New England Balance Beam Champion. Rose Rocchio '90 and Kortney Leabourne '92 also had beautiful no-fall routines. Rocchio stuck her two backhandsprings for a score of 7.8 while Leabourne performed an innovative jump to immediate backhandspring combination for a score of 7.1.

The floor exercise was one of the high points in MIT's meet. Arel took third with an Engineer record score of 9.0, marking the first time an MIT woman earned a 9.0 in any event. Rose Rocchio and Leabourne used their energy on high somersaults in their tumbling passes and powerful leaps and jumps for scores of 8.35 and 8.05. Rocchio's score earned her sixth place in the event. Allison Arnold '90 and Catherine Rocchio '89 both had clean dance and tumbling, scoring 7.55 and 7.25.

In the vault, Arel again showed championship form as she earned second place with her handspring full-twisting vault and score of 8.8. Leabourne performed one of the most spectacular vaults of the meet landing an airborne handspring full-twisting vault for a score of 8.65 which was good for third. Arnold's half-on 1½-off twisting vault was solidly landed for a score of 8.35, while Rose Rocchio performed a half-on half-off vault for a score of 8.05. Senior Paula Aqui (7.25) and junior Charlene Grant (7.8) both had their season's highest scores on their handspring vaults.

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### New England Division III Championships

**Floor Exercises** - 1, Jill Russell, Salem St., 9.20; 2, Marissa King, Salem St., 9.10; 3, Lisa Arel, MIT, 9.00; 4, Kim Nadeau, Salem St., 9.00; 5, Jessica Ducharme, Westfield St., 8.60.

**Balance Beam** - 1, Lisa Arel, MIT, 8.70; 2, Kim Nadeau, Salem St., 8.65; 3, Shelly Sirois, Salem St., 8.60; 4, Jeanine Giglio, Salem St., 8.00; 5, Jill Russell, Salem St., 7.95.

**Uneven Bars** - 1, Lisa Arel, MIT, 8.95; 2, Jill Russell, Salem St., 8.70; 3, Heather Seedis, Bridgewater St., 8.50; 4, Allison Arnold, MIT, 8.45; 5, Kim Nadeau, Salem St., 8.05.

**Vault** - 1, Jill Russell, Salem St., 9.00; 2, Lisa Arel, MIT, 8.80; 3, Kortney Leabourne, MIT, 8.65; 4, Jessica Ducharme, Westfield St., 8.60; Marissa King, Salem St., 8.55.

**All Around** - 1, Lisa Arel, MIT, 35.45; 2, Jill Russell, Salem St., 34.85; 3, Kim Nadeau, Salem St., 33.05; 4, Marissa King, Salem St., 31.90; 5, Heather Swedis, Bridgewater St., 31.60.

**Team Scores** - 1, Salem State, 164.95; 2, MIT, 154.70; 3, Bridgewater State, 147.60; 4, Rhode Island College, 137.55; 5, Westfield State, 121.35.

## MIT edges past Mount Holyoke in 75-72 win

By Manish Bapna

With two minutes remaining against Mount Holyoke College, the women's basketball team found themselves on the wrong end of a 64-60 score Thursday night at Rockwell Cage. But with 17 seconds left on the clock, Maureen Fahey '90 grabbed an offensive rebound and swished a five-footer to sent the game into overtime. And when a Lyon three-point attempt at the buzzer bounced off the rim twice before falling wide, the Engineers had a 75-72 victory in what was their most exciting contest of the season.

Mount Holyoke charged to a 10-2 lead within the first four minutes of the first half. But the Engineers, led by Fahey and three starting freshmen, came back to score the 13 consecutive points by controlling both the offensive and defensive boards. Susan Ward '92 assisted with a demonstration of tenacious defense during the run.

Fahey and Catherine Mein of the Lyons dominated the rest of the half as they alternated baskets almost at will. The opposing centers combined for over 35 of the 58 points scored in the first half alone — as Mount Holyoke went into the locker room holding a slim 31-27 lead.

Guard Robin Rawles '90 came out in the second half nailing

three shots in a row, giving MIT a temporary three-point lead. The second half brought forth some of the best play in both teams, especially from MIT's freshmen. Neither team could afford to fall behind by more than a few points, and neither did. A highlight film could have been made from the blocked shots, steals, and breakaways of Ward, Bernadette Upshaw '92, and Showna Chang '92 alone.

Although the Engineers were down by four with time running out, Chang and Fahey were able to even up the game at 66 before time expired in regulation. Unfortunately for Mount Holyoke, they lost their two best players within the first minute of overtime — one to an injury, the other fouled out. And MIT took advantage of the opportunities presented to them.

The score was tied at 70 when Ward stole the ball and followed with a lay-up. Chang then demonstrated considerable poise, twice hitting the front end of a one-and-one and clinching the victory for the Engineers.

The dramatic 75-72 victory over a rival conference member lifted the Engineers record to 7-11 and 2-5 in the New England Women's Eight Conference, as well as moving them into a tie for seventh place with the Lyons.

Mark S. Abinante/The Tech  
Lisa Arel '92 earns the first 9.0 for MIT women with her floor routine.

## Injuries undercut men's track team

By David Rothstein

NEW LONDON, CT — Writing its own version of *Things Fall Apart*, the undermanned indoor track and field team finished second Saturday at the New England Division III Championships at the US Coast Guard Academy, scoring 62 points to Brandeis University's 94.

For a team that has not lost a dual or triangular meet in almost six years, a team that has won 10 of the 18 indoor and outdoor New England Division III Championships, finishing second was second rate. The defeat at the hands of the Judges broke MIT's streak of consecutive indoor titles at four.

The Engineers had a fairly strong showing in the field events, including first-place finishes in both the 35-pound weight throw and the shot put by senior co-captain Scott Deering. But MIT scored only 12 points in the middle- and upper-distance races, and in the three relays, finishing the meet on a note that was more a whimper than the bang that the team has been known for over the years.

"From the 400[meter] run up," said Assistant Coach Halston Taylor after the meet, "we did not compete with any confidence."

MIT's confidence clearly suffered a blow when injuries began to build up in the week leading up to the Division III meet. Top 400-meter men Mark Dunzo '91 and Karim Roshd '89 went down with injuries, joining John Tewksbury '92 (triple jump, 55-meter high hurdles) and leading scorer Bill Singhose '90, both of

In the end, however, MIT did not compete up to the expectations of many, including the coaches, who were looking for 90 to 100 points.

"The bottom fell out" after good performances in the early events, said Head Coach Gordon Kelly simply.

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David Rothstein/The Tech  
Paul McKenzie '90 sprints the 200-meter.

whom had been out for several weeks with pulled hamstring muscles. Dunzo and Roshd were expected to place high in the 400 and contribute to a strong 1600-meter relay team, while Singhose was to be a strong contender in the long and triple jumps, and had a virtual lock on the pole vault.

## Nash leads Engineers in CCNY win

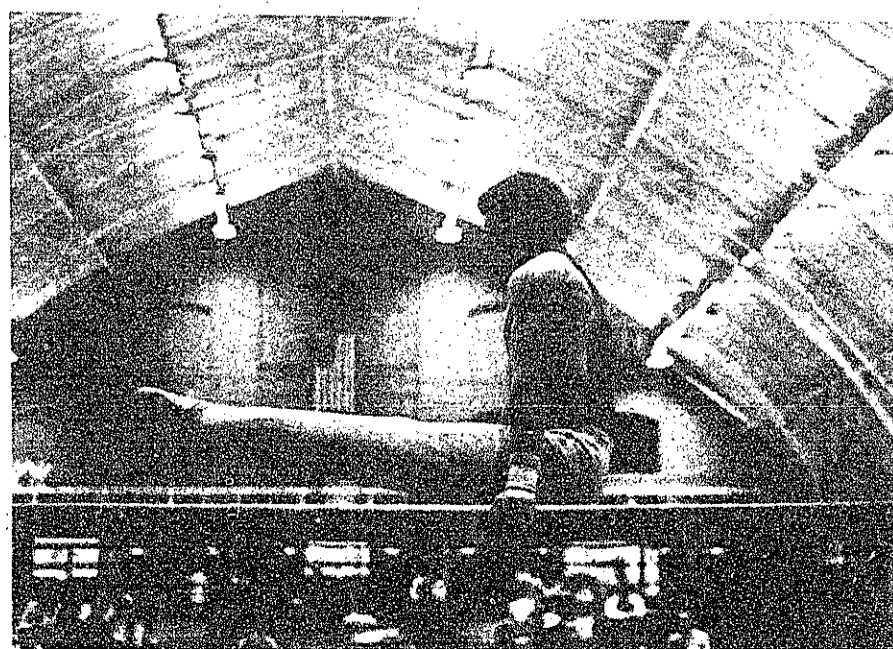
By Eric M. Reifschneider

The MIT men's gymnastics team raised its record to 3-2 Saturday at DuPont Gymnasium with a 181.6-151.0 victory over the City College of New York.

Tri-captain Alan Nash '89 had his best meet of the season and won the all-around competition with a score of 43.05. Nash placed first on the pommel horse (5.9), parallel bars (7.75), and high bar (6.3), and second on the floor exercise (7.95), rings (6.95), and vault (8.2).

Nash thrilled the crowd with many exciting tricks: consecutive back flips on the floor; flaired circles on the pommel horse; two backsprings to handstands on the rings; a full-twisting stutz on the parallel bars; a full-twisting re-

(Please turn to page 18)



Michael Franklin/The Tech  
Tri-captain Alan Nash '89 holds an L-seat on parallel bars in his winning performance.

### Upcoming Home Events

Friday, February 24

6:30 Women's Hockey v. Harvard University

Saturday, February 25

2:00 Women's Hockey v. RPI