



Ben Stanger

Wellesley President Nannerl O. Keohane observes the anti-apartheid protest at Wellesley Friday.

## Fifty arrested in protests at Wellesley

By Ben Z. Stanger

Students at Wellesley College boycotted classes Friday in response to a Board of Trustees' vote to keep the school's holdings in South Africa-related companies and the subsequent arrest of 50 students who blocked the main entrance to the college the day before.

Up to half of Wellesley's 2230 students did not go to classes Friday, according to student organizers. About 200 attended a mid-day rally for the arrested students.

"We wanted to show solidarity for the women in the jail, to show the administration we wanted charges against the students dropped and to express dismay over the trustees' decision not to divest," said Lisa Marshall W '88 to a cheering crowd. "We will [boycott and protest] again and again as long as the trustees don't

hear us."

The trustees voted 17-14 Thursday against an Advisory Committee on Social Responsibility recommendation to sell Wellesley's stock in companies doing business in South Africa. Wellesley owns approximately \$49 million worth of foreign and domestic stock in these companies, according to *The Wellesley News*.

Following the vote, students lay down in front of entrances to the college. Wellesley town police arrested 50 on charges of trespassing and disorderly conduct.

### Arrested students stay in armory; charges are dropped

Forty-four of the students gave their name as Winnie Mandela, and were forced to stay overnight in a National Guard armory, where Wellesley Campus Police officers brought them dinner. President Nannerl O. Keohane

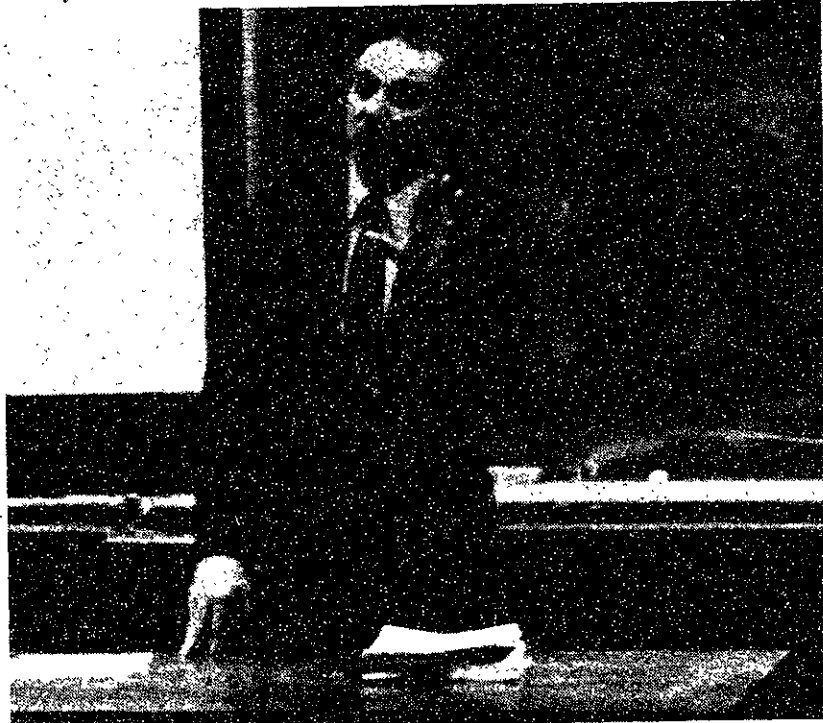
## Covert describes Presidential Panel's findings

By Paula Maute

"If we look over man's aspirations to improve the quality of life with science and technology, you'll find there is not an unbroken line of successes. Each ambitious undertaking usually has at least one failure," said Eugene E. Covert PhD '58, a member of the Presidential Commission investigating the Jan. 28 *Challenger* accident, at a lecture at MIT on Friday.

Covert, head of the department of aeronautics and astronautics, spoke to an audience of over 100 faculty members and students about his experiences on the panel. The commission aimed to find out what went wrong with the *Challenger*, he explained, rather than who did wrong at NASA.

Covert stressed the importance of understanding the physics of a system and thoroughly examining



Salma I. Saeed

Eugene E. Covert PhD '58 from the Presidential Shuttle Commission.

## Alumni study shows racism

By Earl C. Yen

A group examining minority student life at MIT has released a report that "carries a clear and disturbing message: that the environment for living and learning at MIT poses special problems for black students," said President Paul E. Gray '54 in a letter to the faculty.

The Minority Student Issues Group, composed of MIT administration and faculty members, last week issued its report with recommendations entitled "The Racial Climate on the MIT Campus."

The report, which presents results from two surveys, contains a set of recommendations including the formation of a visiting committee for minorities and the creation of new disciplinary policies for incidents involving racism.

Dean for Student Affairs Shirley M. McBay, who chaired the MSIG, said, "We believe the situation at MIT is similar to that

said that up until the students were taken to the armory, she had feared that they would spend the night in the Massachusetts Correctional Institution.

College officials have convinced Wellesley town police not to press charges against the students, stated a letter Keohane sent to the college community. The letter (Please turn to page 17)

## Congressman censures MIT testing

By Earl C. Yen

A US congressional subcommittee has criticized MIT for performing experiments that involved the injection of elderly subjects with radioactive materials in the early 1960s.

The report, released on Oct. 24 by Rep. Edward J. Markey (D-MA), says MIT researchers injected or fed 20 elderly subjects with radioactive radium or thorium from 1961 to 1965.

all the relevant data, supportive or not.

"It's important to try to understand the physics of the process you're dealing with," he said. One engineer the panel interviewed admitted he didn't understand why some things worked they way they did, Covert said.

### Several factors led to shuttle failure

The commission, headed by former Secretary of State William P. Rogers, consisted of experienced astronauts, astrophysicists, engineers, test pilots, and lawyers.

The first topic at the first meeting of the Investigation Panel was temperature. Did the low temperature on the day of the launch stiffen the o-rings so that they couldn't expand properly?

The engineers at Morton Thiokol who warned their managers about the possible disastrous effects of cold on the o-rings "were unable to manufacture a persuasive set of arguments that their boss[es] would accept," said Covert. "It's valuable for engineering students . . . and probably everybody else to learn to present your case effectively so that you don't find yourself at the wrong end of the stick," he emphasized.

But the 30° temperature appears to be only one of several factors which caused the *Chal-* (Please turn to page 17)

lenger was launched in most predominantly-white institutions. We feel that MIT should show leadership in racial matters, as well as in education and research."

The 1985 Black Alumni Survey, based on telephone discussions with 137 of the 671 black alumni who entered MIT between 1969 and 1981, showed that most respondents developed "a negative orientation to the MIT environment" over the course of their MIT education, according to the report.

*Selected anecdotes from MSIG report. Page 15.*

Fifty-five percent of the respondents indicated "generally negative perceptions of the personal and academic support provided by MIT faculty members," the report stated.

Relationships between black students and white faculty members were often marked by "poor or inadequate support, negative expectations for black student achievement, occasionally some shocking discriminatory behavior," the report continued.

"[Professors] think that you automatically won't make it in the class. I was very frustrated," one respondent said.

About 53 percent of the respondents perceived themselves to be "less well prepared" than other MIT students.

One alumnus explained, "When my friends told me that

the textbooks we were using at MIT they had already had in high school, that really hurt me. I didn't feel they were any smarter than me, they had just been better prepared."

### Many blacks have problems in MIT living groups

The survey also asked about black students' experiences in MIT living groups. Over 75 percent of the respondents who lived in predominantly white living groups described their experiences in "generally negative or mixed terms."

Some of these blacks described their interactions with whites as "fraught with racial and cultural barriers, racial incidents, and misunderstandings."

On the other hand, those who lived in predominantly black living groups, such as New West Campus House's "Chocolate City," were unanimously positive about their residential experiences, the report said.

The majority of the respondents, however, still felt that MIT "was their best choice," and said they would attend MIT again, the report said.

### 1984 survey reveals minority insecurities

The MSIG also examined the Visiting Committee's 1984 Quality of Student Life Survey. The survey results showed that academic pace and pressure, which (Please turn to page 15)

addition to the MIT experiment, it decries 30 other radiation experiments conducted from the 1940s to the 1970s:

- From 1945 to 1947, Manhattan Project researchers injected 18 patients with plutonium in order to determine the quantity retained by humans. All patients were suffering from diseases and had expected life-spans of less than 10 more years.

- Scientists at Massachusetts General Hospital injected 12 patients with uranium to measure the amount needed to cause kidney damage from 1953 to 1957. All of the subjects were terminally ill brain tumor patients.

- Sixty-seven inmates at Oregon State Prison and 64 inmates at Washington State prison received x-rays to their testes to examine the effects of radiation on human fertility and testicular function.

"These experiments . . . shock the conscience and represent a black mark on the history of nuclear medical research," Markey wrote in a letter to the Department of Energy. "While it is clear that present public and scientific officials are generally not responsible for these experiments, these circumstances represent a historical, institutional failure."

The report recommends that the US government identify the victims of the experiments, examine the subjects' health records, and compensate them for suspected damages.

## inside

Peter Hagelstein '76 joins the MIT faculty. Page 2.

Steven Wright at Kresge. Page 13.

### Report names others

The report, which was produced by the Subcommittee on Energy Conservation and Power, is based on a review of Department of Energy documents. In

# Hagelstein joins MIT faculty

By Seth A. Gordon  
Peter L. Hagelstein '76, an 11-year employee of the Lawrence Livermore National Laboratory, has joined the MIT faculty to become an associate professor of electrical engineering. He declined to comment on the reasons for this move. Three other

schools and three or four labs were interested in giving him work, Hagelstein says, but he just "wanted to go to MIT." His associates have said military research made him uneasy, *The Boston Globe* reported. Hagelstein was a 20-year-old graduate student when he joined

Livermore, the largest nuclear weapons research lab in the country. He helped develop the X-ray laser while he was at Livermore. "I'm probably the only X-ray laser expert at MIT," he said.

Hagelstein said his primary interest is in lasers using "soft" X-rays (about 10<sup>-8</sup> meters in wavelength) instead of the visible light commonly used now. Because of the X-ray's short wavelength, an X-ray laser would be more precise than a visible-light laser, although its high energy makes it more difficult to build. Hagelstein said he intends to focus his research on "numerical simulations."

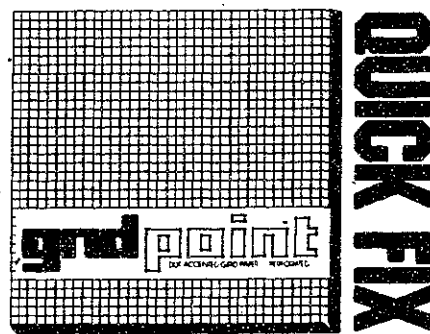
Current X-ray lasers have to be "pumped" by large glass or carbon dioxide lasers. Engineers at Livermore are designing an X-ray laser pumped by a nuclear explosion; a satellite carrying such a device would be a major component of the Strategic Defense Initiative. Hagelstein hopes to develop systems that are smaller, cheaper and more accessible. He expects the X-ray laser would be used as a research tool, but "the applications are still under study."

Richard B. Adler '43, associate head of the department of electrical engineering and computer science, said Hagelstein will spend about half of his time in research and the other half teaching. Hagelstein has applied to teach core undergraduate EE classes and will begin his first teaching appointment next spring.

Adler described Hagelstein as "an extremely smart fellow. I think students are going to be very happy to work with him." Hagelstein's master's and Ph D theses were "remarkable," said Adler.



Associate Professor Peter Hagelstein '76, a new electrical engineering faculty member. Isaac Chuang



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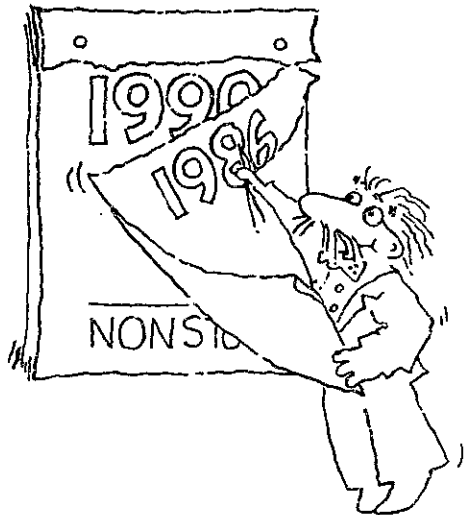
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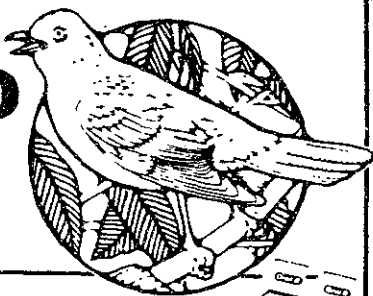
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# news roundup

from the associated press wire

## World

### US and Britain attack Syria for support of terrorism

Great Britain broke relations with the Syrian government Friday, charging that the Syrians had sponsored a plot to smuggle a bomb onto an Israeli plane at London's Heathrow Airport. The United States and Canada both subsequently withdrew their ambassadors to Syria. A British court sentenced a Jordanian to 45 years in prison on Friday for carrying out the plot in April.

Aides to Britain's Foreign Minister said yesterday that Sir Geoffrey Howe will show evidence to foreign ministers of the 12-nation European Common Market that implicates Syria. Britain asked Common Market countries yesterday to cut relations with Syria as a show of support.

The diplomatic actions drew praise from members of Congress. Senate Majority Leader Robert Dole (R-KS) suggested that President Ronald Reagan take further diplomatic, political, and economic steps to force Syria from its terrorist-support position. Nineteen senators have written to Reagan urging him to impose the same sanctions against Syria as those currently in effect against Libya.

The Soviet Union condemned Britain's actions, saying that its reasons were "obviously invented." Syria is the Soviet Union's strongest ally in the Middle East. (AP)

### Syria calls for Arab response, expects US friendship

Syria has closed its air space, ports, and territorial waters to Great Britain in response to Britain's severing of diplomatic relations between the two nations. A government-sponsored newspaper in Syria has called for an Arab boycott of what they call the "Zionist British government." So far, reaction to Syria's proposed boycott has been cool; only Libya has announced official support.

Syria has expressed confidence that the United States will not cut all diplomatic relations. Syria's foreign minister said yesterday that he is sure the United States will "look into the facts" and not simply accept the British accusations. He described the US' recall of its ambassador as a "normal step" under the circumstances. US officials are still weighing the options. (AP)

### Americans and Soviets disagree on meaning of Iceland summit

US and Soviet officials have said they are ready to pick up where their summit discussions left off — but they can't agree where they left off. Soviet officials said Saturday that President Reagan agreed at the summit to eliminate all strategic nuclear weapons within ten years. According to the White House, Reagan proposed a 50 percent reduction in long-range nuclear weapons over five years, followed by a five-year period in which all ballistic missiles would be eliminated, but not necessarily all strategic weapons. (AP)

### USSR ahead of United States in "Star Wars" research

A West German newspaper reported that the Soviet Union is far ahead of the United States in developing "Star Wars" weapons. *Bild* estimated that 10,000 Soviet scientists are presently working on high-energy laser weapons designed to shoot down nuclear missiles. The Soviets have used lasers to disable three US satellites, *Bild* reported. (AP)

## Nation

### Reagan praises new tax code

President Reagan used his Saturday radio speech to laud the tax overhaul measure he has signed into law. The tax legislation will help the economy grow stronger, Reagan said, with benefits expanding to "every corner of our nation." (AP)

### Anti-drug bill becomes law

The most sweeping anti-drug program Congress has ever passed was signed into law yesterday by President Reagan, who called it a major victory in the war on drugs. The \$1.7 billion measure doubles the federal government's budget for battling drug dealers. It also calls for better drug education and stiffens penalties for drug traffickers. (AP)

### Fighting flares up in Lebanon

"Many, many people" have been killed in pitched battles between Palestine Liberation Organization fighters and Shiite Moslem militiamen, a police spokesman in Lebanon said Saturday. The PLO assault, launched from refugee camps in Sidon, was the first of its kind since Israel's invasion of Lebanon in 1982. (AP)

### US troops train in Honduras

Approximately 500 US troops are in a Honduran province taking part in jungle warfare exercises near the Nicaraguan border. *Contra* rebels have camps in the area, but the soldiers will not be in contact with the US-backed rebels, according to a US embassy official. (AP)

### Bell helps in Hasenfus trial

Eugene Hasenfus, the American on trial in Nicaragua for conspiracy against the Marxist Sandinista government, will receive advice from former US Attorney General Griffin Bell. Hasenfus was on the rebel cargo plane that Nicaragua shot down earlier this month, Bell said Saturday. Hasenfus was not a conspirator, Bell claimed, because all he did was kick the supplies out of the plane. Hasenfus should plead innocent before the Nicaraguan tribunal, he said. (AP)

### Enrile berates Aquino government

The Aquino government lacks direction and has failed to create new jobs, asserted Philippine Defense Minister Juan Ponce Enrile to an anti-communist rally on Saturday. The Army will not let communist rebels take over the Philippines, Enrile vowed. (AP)

### Pope declares day of peace

Pope John Paul II and leaders of the world's eleven major non-Christian religions undertook nine hours of fasting and prayer yesterday in Assisi, Italy. The Pope had issued a plea for world peace all day Monday. Prayer is needed if the world is "to become a place of true and permanent peace," he said. The Vatican is calling the event an unprecedented Holy Alliance of the world's major religions for a common cause. (AP)

### London experiences "Big Bang"

The London Stock Exchange began a new era of business transactions yesterday with what is being called the "Big Bang." It is the start of all-out trading in an arena of deregulation and competitive buying and selling of securities. Under the Big Bang, trading is to be extended beyond the floor of the stock exchange to hundreds of office computer screens carrying instant information about stock price movements for brokers and financial institutions to deal by telephone. The Exchange also is ending restrictive practices that fixed the commissions at profitable levels for the few permitted to be members.

The Big Bang is estimated to have cost nearly \$3 billion. (AP)

### Zuroff produces Nazi list

Former US Justice Department investigator Ephraim Zuroff announced yesterday that he has a list of hundreds of Nazi "war criminals" living in western nations. The suspects are mostly eastern Europeans who never changed their names because they do not expect to be tracked down, Zuroff said. He calls the effort to bring them to trial "a last-ditch campaign" as time catches up with the wartime generation. (AP)

### Thai jetliner has rough ride

A Thai airplane experienced a five-mile plunge when its cabin suddenly lost pressure after a loud bang was heard. The passengers were tossed about the cabin before the aircraft finally regained control and made an emergency landing in Osaka, Japan. Japanese authorities yesterday began trying to determine what caused the incident that resulted in 62 injuries. (AP)

## Local

### Massachusetts announces tax limit

Governor Michael Dukakis signed into law a bill to cut \$250 million in taxes by repealing the state's income tax surcharge. The plan has been seen as an alternative to the lower tax limit proposed on the Nov. 4 ballot. The bill will provide a "reasonable yet responsible limit on state spending," Dukakis commented. The bill allows hundreds of millions of dollars to be spent above the limit, complained members of the Citizens for Limited Taxation. The bill, which was passed by the House and Senate on Thursday, repeals the state's 7.5 percent surcharge on income taxes, retroactive to Jan. 1, and imposes a limit on state tax collecting. (AP)

### Smith College divests its South African connections

Smith College trustees voted last spring to divest from companies not taking an active role in improving the position of non-whites in South Africa. The trustees this weekend adopted a plan to divest of the beneficial companies as well. The action follows picketing by students who urged the trustees to get rid of all the college's stock in companies that do business in South Africa. (AP)

### Faneuil statue honors Hungarian revolt

A bronze statue erected Sunday in Liberty Square honors Hungarians killed 30 years ago in a revolt against the Soviet-established communist government of Hungary. The statue, created by Hungarian-American artist E. Gyuri Holosy, was dedicated following a ceremony at Faneuil Hall. (AP)

## Sports

### Sox show true colors in game seven

The New York Mets came from behind last night to destroy the Boston Red Sox in the final game of the World Series, 8-5.

History seemed to be on the Mets' side in the series, even though New York was down two games to none at one point. The Sox, who had not won a championship in 68 years, lost two out of three at home and handed New York a victory in game six after leading by two runs with two out in the 10th inning.

Red Sox manager John McNamara decided to replace Dennis "Oil Can" Boyd with left-hander Bruce Hurst after rain forced a postponement of the decisive game. The Mets stayed with Ron Darling as their starting pitcher.

The Red Sox rocked Darling early, taking a 3-0 lead. But the Mets came back to score three runs in the sixth, three in the seventh, and two in the eighth. Boston put two runs across in the eighth, but Jesse Orosco blanked Boston's hitters in the ninth to secure the victory. Roger McDowell got the win and former Met Calvin Schiraldi, loser of game six, took the loss in the clincher.

### Gretzky sets NHL hat-trick record

Wayne Gretzky's three goals against Boston gave the Edmonton star his 38th career hat trick to set a new National Hockey League record on Saturday. Gretzky also recorded his 874th assist in the Oilers' 6-2 decimation of the Bruins, moving him into fourth place on the all-time list ahead of Paul Esposito. (AP)

## Weather

### Sunny skies overhead

A weak trough will pass through our region today. As a result, we can expect a mixed bag of weather. Once the trough passes, however, we will see general improvement in our weather.

**Today:** We will see a mixture of clouds and sun. High temperatures will be 60-65° (15-18°C) and winds will be westerly at 10-15 mph (16-24 kph).

**Tonight:** Clearing skies and cooler temperatures than Monday night. Low temperatures near 45° (7°C).

**Wednesday:** Mostly sunny and warmer with high temperatures 65-70° (18-21°C).

**Thursday:** Again sunny, but cooler with highs near 60° (15°C).

Forecast by Robert X. Black

### Court rules on use of unpopular books in classroom

A federal judge in Greeneville, TN, ruled that students could remove themselves from classes that used the Holt, Rinehart, and Winston reading series because the books contained excerpts from such works as *The Wizard of Oz* and *The Diary of Anne Frank*. A group of Christian fundamentalist parents found the books objectionable and went to court, claiming that the Greeneville school board should not have required their children to read the books. The judge agreed, saying the school board violated the parents' freedom of religion. Attorneys on both sides of the case said they are prepared to go all the way to the Supreme Court. (AP)

### United States goes for the gold

The federal government yesterday resumed its sale of the new US gold bullion coins called the "American Eagle." Sales were halted last week because the mint couldn't keep up with demand. Officials expect the same thing to happen this week.

Compiled by Robert Adams

# opinion

Column/Andrew L. Fish

## Court decision flawed

It would have been humorous had it not been so true.

Last Friday, a federal court ruled that the children of a small group of fundamentalist Christian parents should be sheltered from books their parents deem "godless." The particular books in question are part of the Holt, Rinehart, and Winston basic reading series used in more than 15,000 school districts across the country.

The parents objected to excerpts from *The Wizard of Oz* because they portrayed a witch as good. Similarly, *Cinderella* and *Macbeth* were branded unsuitable because they mentioned witchcraft and magic. *The Diary of Anne Frank* was deemed objectionable because it suggested that all religions are equal.

In his ruling, Judge Thomas Hull said that by forcing the children to read the offending texts, the school board was infringing upon the pupils' right of free exercise of religion. Hull suggested

that the children be excused from classes where the offensive texts were used.

This ruling is an affront to the First Amendment. The amendment simply prohibits the public schools from *advocating* any religion. Thus, school prayer and Bible reading are correctly kept outside the classroom. But the amendment should not prevent the presentation of ideas contrary to certain religious precepts.

It seems that, to an extent, Judge Hull realized this. He did not remove the offending texts from the classroom; rather, he permitted students to read alternative texts.

But this limited judgement sets a dangerous precedent. Its scope could be broadened to censor everything objectionable to some religious sect and reduce education to the least-common denominator. But if Hull's judgement is allowed to stand, it alone will severely damage the public education system of the United

States.

Hull would have the public schools become a cafeteria where students have the opportunity to pick and choose what they want to learn. This runs counter to the concept of public education, whose strength lies in presenting a variety of viewpoints and perspectives. The public educational system should provide a forum for ideas and knowledge, not a sanctuary for xenophobes.

The government should give professionals, not parents, the right to determine what is proper

(Please turn to page 5)

*Editorials*, marked as such and printed in a distinctive format, are the official opinion of *The Tech*. They are written by the editorial board, which consists of the chairman, editor in chief, managing editor, executive editor, news editors and opinion editors.

*Dissents*, marked as such and printed in a distinctive format, are the opinions of the undersigned members of the editorial board choosing to publish their disagreement with the editorial.

*Columns* and *editorial cartoons* are written by individuals and represent the opinion of the author, not necessarily that of the newspaper.

*Letters to the Editor* are welcome. They should be typed and addressed to *The Tech*, PO Box 29, MIT Branch, Cambridge MA 02139, or by interdepartmental mail to Room W20-483.

Letters and cartoons must bear the authors' signatures, addresses, and phone numbers. Unsigned letters will not be accepted. No letter or cartoon will be printed anonymously without express prior approval of *The Tech*. *The Tech* reserves the right to edit or condense letters. We regret we cannot publish all of the letters we receive.

## feedback

## West's arguments are faulty

To the Editor:

Let all who have grown tired of saving whales or rescuing baby seals take courage. For Julian West ["Anti-abortion arguments fail," Oct. 17] has championed a new cause, namely changing the minds of those people who are opposed to abortion.

West indicates that these individuals may be recognized by their "leaps of logic," "rational flaws," and "misconstruing . . . epithet[s]." If you are lucky you might even spot one making an "emotional commitment."

It is somewhat puzzling that these same attributes are to be seen in West's own column. He states, for example, that "there is a great difference . . . between a fetus and a baby ready for birth." This is nonsense. A baby ready for birth is also, by definition, a fetus.

Moreover, while there are clearly some differences between a three-month fetus and a nine-month fetus, there is little difference between an eight-month fetus and a new-born baby, especially in terms of the "sensual maturity" and "viability" criteria of West.

However, since the *Roe v. Wade* decision of the US Supreme Court in 1973 the new-born is protected by the full force of the constitution, but the eight-month fetus is subject to a third-trimester abortion law whereby its life may be taken if, in the opinion of one physician, the abortion is necessary to preserve the health of the mother. By the Supreme Court's own definition,

health includes such things as "distress," the "stigma of unwed motherhood," and a large number of other social reasons. This law is about as liberal as Great Britain's 1967 Abortion Act is for first-trimester abortions.

The idea of using viability of the fetus as a criterion for allowing abortions is as old as the abortion issue itself. Fetuses have been born after less than five months' gestation while the general limit of viability rapidly ap-

proaches the six-month point, which would take it into the second trimester. Yet the US Supreme Court couldn't bring itself to call these unborn babies persons.

One of the more serious consequences of abortion is that it puts a price tag on human life. Once that has been done, economics takes over, and we face the possibility of all human life having a price. This can already be seen,

(Please turn to page 5)

## Viability issue clouds the debate on abortion

To the Editor:

How would you feel if you found out that your mother would have aborted you had abortion been legal at the time of your conception?

I hope that this makes all of you realize that it was not some random collection of cells in your mother's womb, but it was you, as you are now.

Sure you're bigger now, you look more like an average adult, you are able to think and reason better, and you can go where you please. Fundamentally, nothing has been added to you except for food and water since that instant when your mother's egg cell and father's sperm cell united. That one unique combination was you. When you were born the doctor did not slap some new parts onto your body to make you human. Instead, you just changed your

living environment and the way that you got fed.

We so easily choose to ignore these fundamental facts and invent the "viability" issue to help us ignore the true abortion issue. The question that we should be addressing concerning the abortion issue is the following: does a person have the right to take someone else's life, if that someone else will inconvenience the person to any extent, except death?

Instead of putting a great amount of thought, energy, and debate into side issues like abortion funding, once we answer the underlying question, the rest of the issues will fall into place. Stop skirting the real issue and start answering the real question raised by abortion on demand.

Brian S. Kimmel '87

# The Tech

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**Indexing Project Representative** ..... Sharalee M. Field '89

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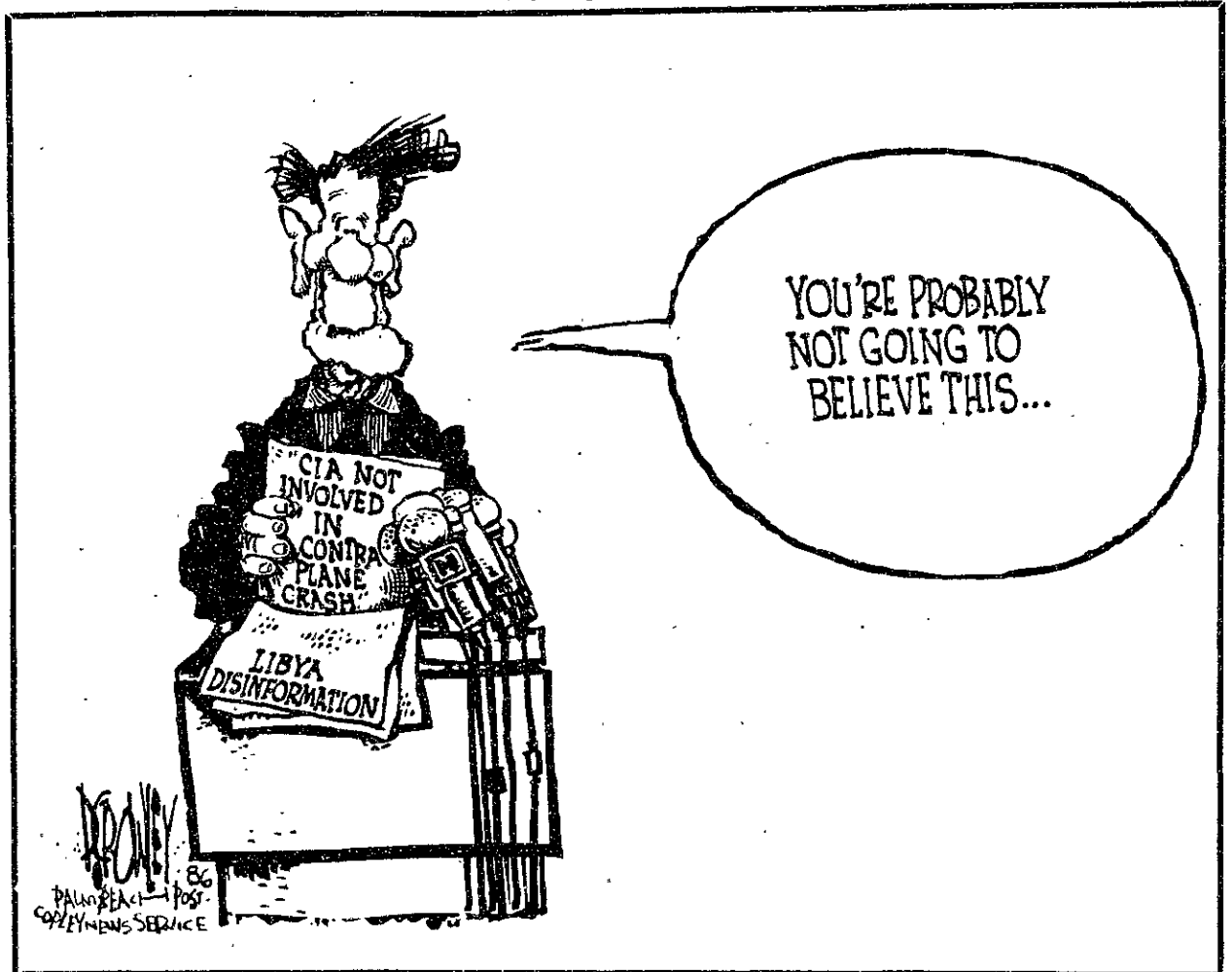
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# opinion

## Decision will harm the public schools

(Continued from page 4)  
for study in the public schools. Only well-trained educators can evaluate the merit of textbooks. The fact that the reading series in question is so widely used and is approved by the State of Tennessee attests to its quality. To allow children to excuse themselves from readings would be doing positive harm to their education.

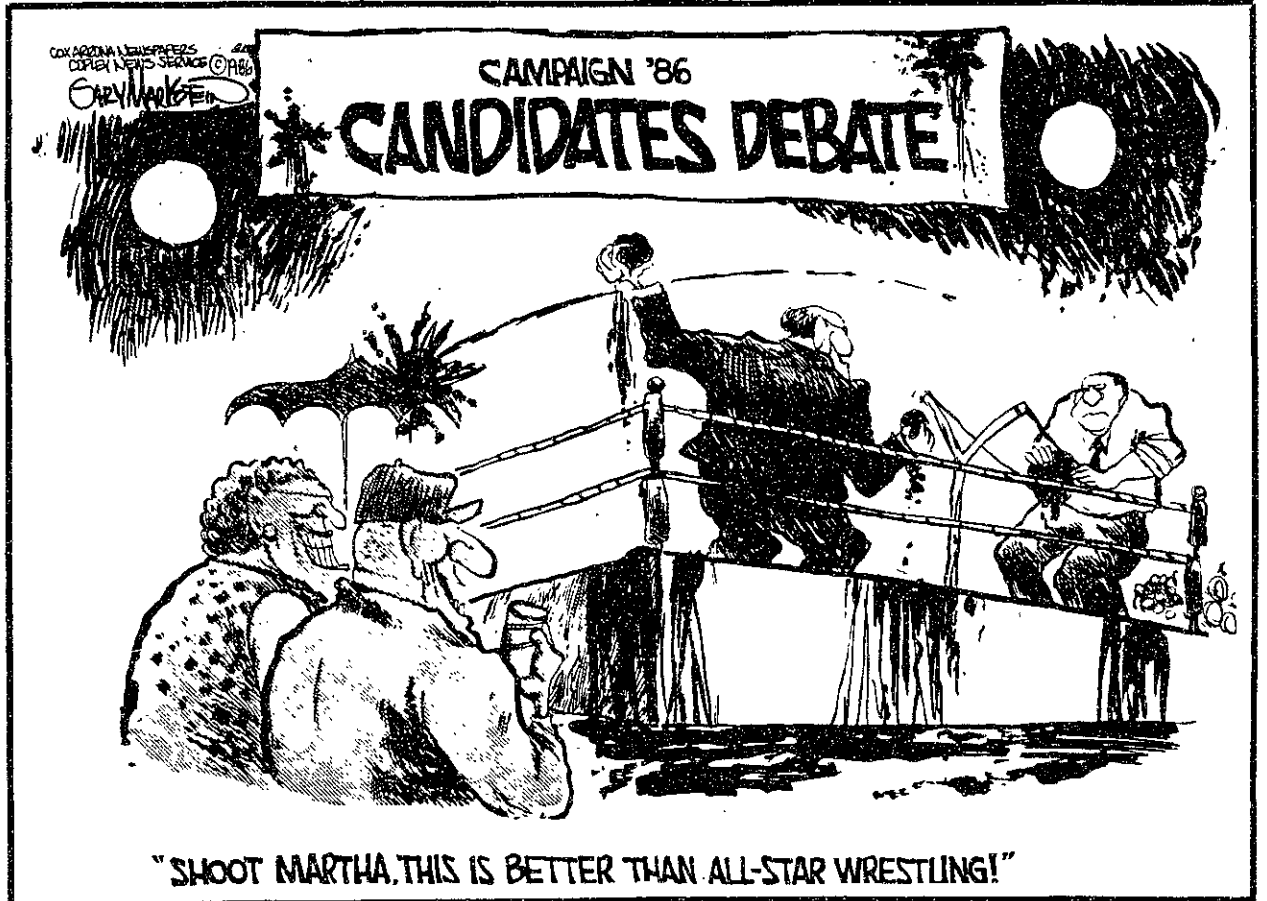
If basic ideas are to be denied, there will be no way students can understand larger concepts. If a child is not to be taught about tidal waves, he will never be able to learn about any physical phenomena. If the dinosaurs or evolution are to be denied, major portions of geology, chemistry, and biology will have to be omitted from the classroom. If the metric system is barred (because it promotes one world government) how is any science to be learned at all?

Similar arguments can be made in the social sciences. How can a student understand world history without the Renaissance (which the fundamentalists claim glorified man above God)? Omitting

anything mentioning the Catholic Church (which plaintiff Vicki Frost said "could produce changes in my child's way of thinking") would prevent any sort of understanding of European history, Latin America, and the Reformation, among other vast categories of human thought. Indeed, Judge Hull's ruling and real public education cannot coexist.

As Timothy Dyk, the lawyer for the school board, exclaimed, "There is no way this woman [Frost] could attend public school and not be offended." This is the true point of the trial. The plaintiffs did not want the option of alternative reading; they wanted their ideology taught exclusively in schools.

This danger is a national one. Indeed, in Alabama there is a case attempting to have "secular humanism" declared a religion and barred from the schools. Thus, all the aforementioned subjects would be banned from the classroom. Should that happen, public education would cease to exist.



feedback

## Abortion question is misrepresented

To the Editor:  
The abortion debate in these pages in the past few weeks has strayed from the topic which triggered it, namely, Referendum Question #1 on the Nov. 4 Massachusetts ballot. With voting day drawing nearer, I would like to correct some misconceptions that have been expressed.

Firstly, no matter what the outcome of the referendum, abortion will still be legal in Massachusetts and everywhere in the United States. Secondly, no state

### Minimum meal plan is unfair

(Editor's note: The Tech received a copy of this letter addressed to the MIT Bursar's Office.)

Dear Sir or Madam,  
I would like the R/O dining charge for which you have billed me (\$18.80) to be deducted from my meal plan account. I am finding enough difficulty in using up the unnecessary and expensive

can make abortion unconstitutional. Julian West should get the facts straight before accusing others of not being "in command of their material" ["Anti-abortion arguments fail," Oct 17].

States can, and Massachusetts currently does, go beyond the US Constitution in making abortion accessible by requiring that state money be available to pay for abortions. The proposed amendment would align the Massachusetts Constitution with the US Constitution, but no state can

minimum meal plan requirement and find it appalling that I am being charged even more for MIT food.

If this request can in no way be complied with, I would at least ask that this letter be filed as a formal complaint against the minimum meal plan requirement.

Michael Piech '90

ever restrict abortion more than the US Constitution allows.

If there is confusion regarding the referendum, those who have been exaggerating its consequences are partly to blame. The current slogan, "Keep abortion safe and legal — Vote NO on question #1," blatantly misrepresents the facts by linking the amendment with the legality of abortion, which is simply not an issue.

The most conspicuous possible outcome of this amendment would be less state funding of abortions. Even this would be up to the legislature, who can be elected or replaced as voters see fit. Still, nothing would prevent private organizations from replacing lost state funds, giving abortion advocates the chance to put their own money, and not someone else's, behind their convictions.

Mark De Guire G

feedback

## Abortion puts a price tag on a human life

(Continued from page 4)  
to some extent, in the various cases of infanticide, "mercy killings" of handicapped infants, and (at the other end of the scale) euthanasia, all of which are becoming more commonplace and acceptable.

This utilitarian ethic is very pervasive. Consider the opinions of Nobel prize-winners Francis H. C. Crick and James D. Watson. Crick said, "No newborn infant should be declared human until it has passed certain tests, regarding its genetic endowment, and if it fails these tests it forfeits the right to live."

Watson said, "If a child were not declared alive until three days after birth, then all parents could be allowed the choice that only a few are given under the present system. The doctor could allow the child to die if the parents so chose and save a lot of misery and suffering."

We may think these chilling proposals are far from reality today, but wouldn't someone from

the Victorian era have found our present abortion laws and statistics just as chilling and distant?

Incidentally, I find it amusing that West equates the responsible denial of sex with "savagery." This was, after all, the predominant sexual ethic of the 19th century. I have little doubt that someone from that age could only put our modern sexual ethics and morality [or lack thereof] on a par with those of ancient Rome.

In conclusion, maybe those of us who are pro-life don't need our minds changed after all.

Eugene Gath G

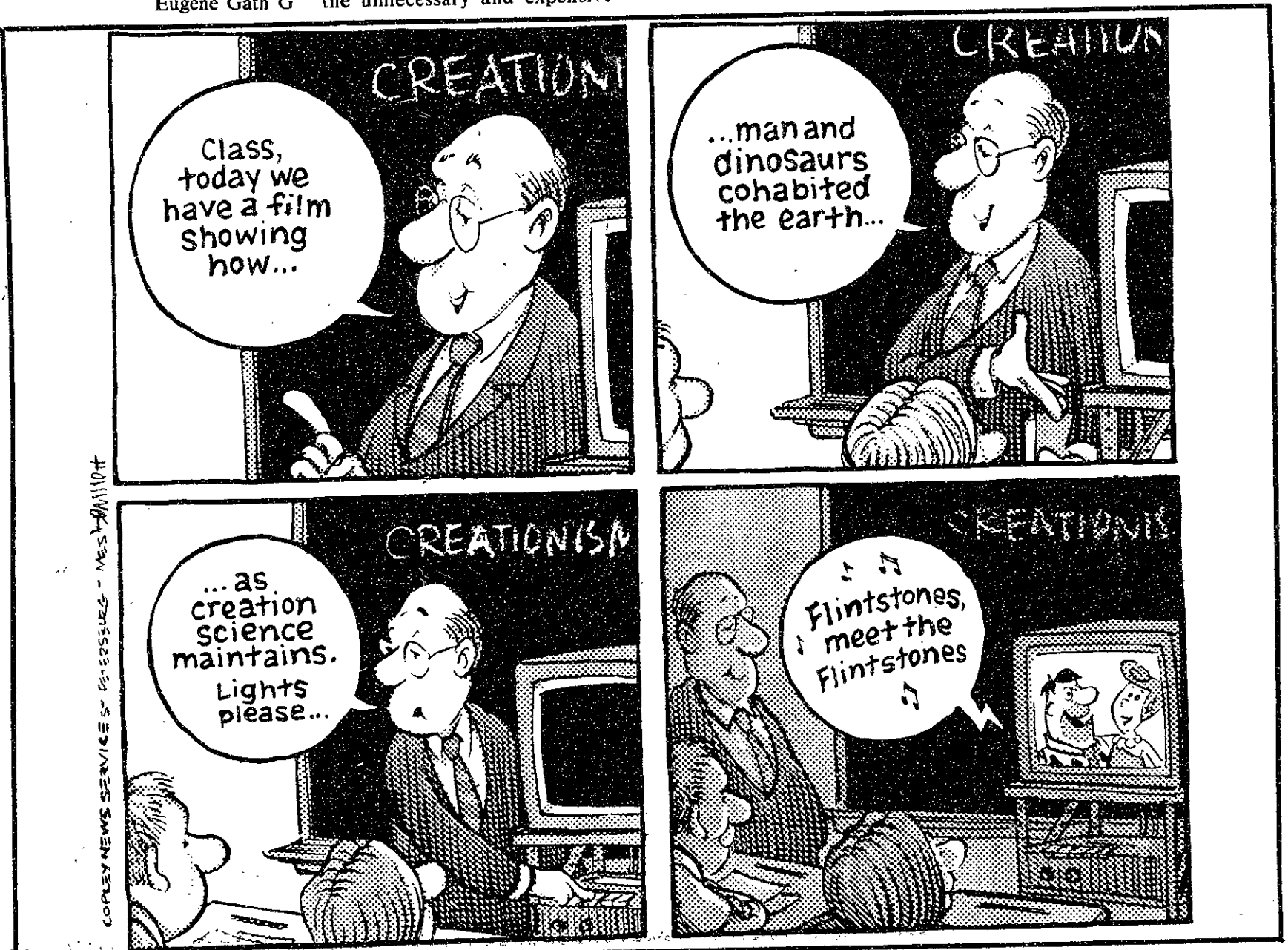
## Institute clocks should display correct time

To the Editor:  
May I propose a research project for the Undergraduate Research Opportunities Program?

One of the most difficult and baffling problems to solve at MIT is the synchronization of all the clocks. I will give \$5 to the first person to show me two clocks at the Institute that have the same time.

It would seem that this research would come under the department of electrical engineering and computer science. However, because of that part of the problem which has defied solution for many years involving two time changes each year, it might require an interdisciplinary approach.

Georgia M. Nagle  
Secretary, Laboratory for Manufacturing and Productivity



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Think about it. If you don't have the patience to wait around for things to happen to you, come to our information session and talk to some people on the team you could join at J.P. Morgan.

Wednesday, Oct. 29,  
7:00 pm,  
4-145

**J.P. Morgan**

## 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.

Tuesday, Nov. 4

Jerry Feldman, of the Computer Science Department of the University of Rochester, will present a lecture entitled "Four frames suffice: A provisional model of vision and space" as part of the Cognitive Science Seminar Series. It will take place in the Grier Conference Room, 34-401 at 7:30pm.

Monday, Nov. 17

Professor Haruo Shimada will lecture on "Industrial Relations and 'Humanware' — Lessons From Japanese Investments" as a part of the "The U.S. Automotive Industry: Crises and Lessons from Japan" series. Free admission. 5:30 pm in the Mezzanine Lounge of the Student Center.

Tuesday, Nov. 18

Lyn Frazier, of the Department of Linguistics of the University of Massachusetts, will speak about "Natural Classes in Language Processing" as part of the Cognitive Science Seminar Series. The lecture will take place in the Grier Conference Room, 34-401 at 7:30pm.

Tuesday, Dec. 9

Elizabeth Spelke, of the Department of Psychology at Cornell University, will present a lecture as part of the Cognitive Science Seminar Series at 7:30pm in the Grier Conference Room, 34-401.

### Announcements

Value cards for photocopiers are being installed in the Barker Engineering, Dewey, and Hayden Libraries. The new copiers

should be available Sept. 30. Magnetic-strip cards can be purchased at the Microreproduction Lab, Room 14-0551, or can be ordered by mail and picked up at the Hayden Circulation Desk.

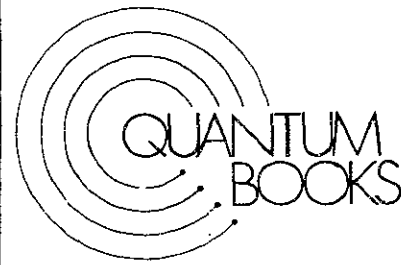
The final report of the Institute Committee on the Humanities, Arts, and Social Sciences Requirements, the first report of the School of Science Education Committee, and the first report of the Commission on Engineering Undergraduate Education are being distributed by the Committee on the Undergraduate Program. Members of the MIT community can find copies at the following locations: the Information Office, 7-121; the Student Center Library; the Reserve Book Room, Hayden Library; Dewey

Library; Barker Engineering Library; the Rotch Library of Architecture and Planning.

Seniors who wish to apply for graduate study in the Department of Electrical Engineering and Computer Science are urged to apply by November 1, 1986. Applications may be picked up in 38-444 and 3-103.

The Sports Medicine Division of the athletic Department will be offering its Fitness Testing Program beginning October 20. The program is open to all current students and employees who hold a valid athletic card.

The test takes about 40 minutes to complete. Those desiring to take the it should call 253-4980 between 3 and 6 pm Monday-Friday.

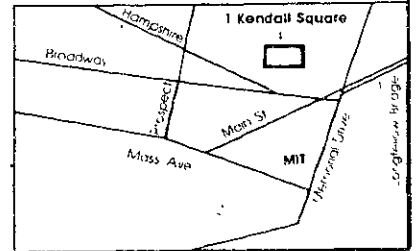
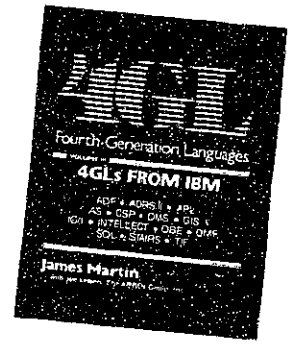


The Publishers Sales at Quantum  
**Week 4: Prentice-Hall**  
**10% off every Prentice-Hall title**

This week through Saturday, November 1, 10% off list price on almost every Prentice-Hall title on the Quantum Bookshelves, or special-ordered by Quantum this week. Martin's three-volume *Fourth Generation Languages*, and many more—A Quantum Leap in Values.

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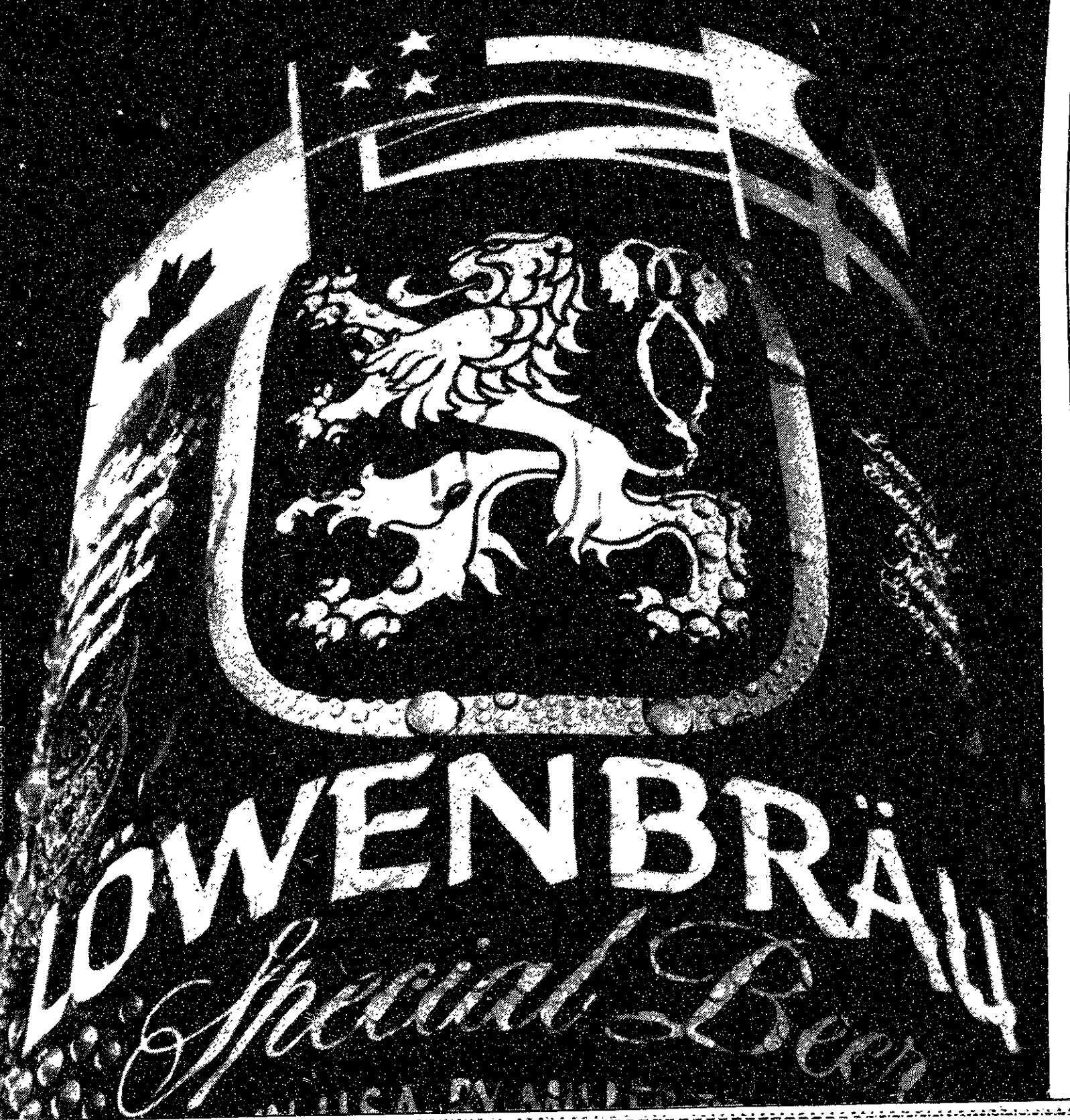
Fourth Generation Languages,  
 Vol. 3, James Martin.  
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**IAP ORGANIZERS!!!**



Why bother with messy forms?

Use **ATHENA** to submit your activity listings for the IAP Guide.

Check your local ATHENA cluster for instructions

OR

contact the IAP Office, 7-108, x3-1668

**DEADLINE** - Thursday, October 30

**Independent Activities Period**  
**January 5 - 28, 1987**

**Undergraduate Association News**

**WANTED**  
**Class of 1987**  
**Co-social Chairman**

Attention! We are looking for one enthusiastic, socially motivated senior to fill the position of Class of '87 co-social chairman along with Jeff Kung, the present co-social chairman. Responsibilities are attending weekly class council meetings and planning study breaks, Jr/Sr Pubs, and other social events for our class.

Interviews will be held **Tonight**. Sign up for your time slot on the sheet posted outside the UA Office. Questions? Call Jeff Kung 494-9235/5-3804.

**The Undergraduate Association**  
 student government for students at MIT  
 the fourth floor  
 of the student center,  
 room 401

253-2696

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**Computer Scientists** exploit a huge computer facility in their work beyond the limits of finite state machine development and applications.

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NSA will be on campus Nov. 5th interviewing graduating seniors.



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notices

Ongoing

Do you have questions about Distribution subjects and fields, Concentration requirements or procedures, what are HASS Elective subjects? Come to the Humanities, Arts, and Social Sciences Office, 14N-409 for help with anything to do with the HASS Requirement. We are open 9-5. Stop by or call us at x3-4441.

\* \* \* \* \*

The Bursar's Office (Student Services and Student Loans) is pleased to announce that our hours of service are now 9-5, Monday through Friday. The Bursar's Office is located in E19-215.

\* \* \* \* \*

The Off-Campus Housing Service welcomes any member of the community who either has available housing or who is searching for housing to contact our office in Room E18-301, ext. 3-1493.

\* \* \* \* \*

The professional tutor staff of the MIT Writing and Communication Center (14N-317) will be glad to consult with you on any writing or oral presentation project (papers, theses, letters, etc.) from 10-4 Monday thru Friday. You may either phone for an appointment (x3-3090) or just drop in. In addition, workshops for those for whom English is a second language are held in the Center on Thursdays from 4:15 to 5:15 pm. All services are free.

\* \* \* \* \*

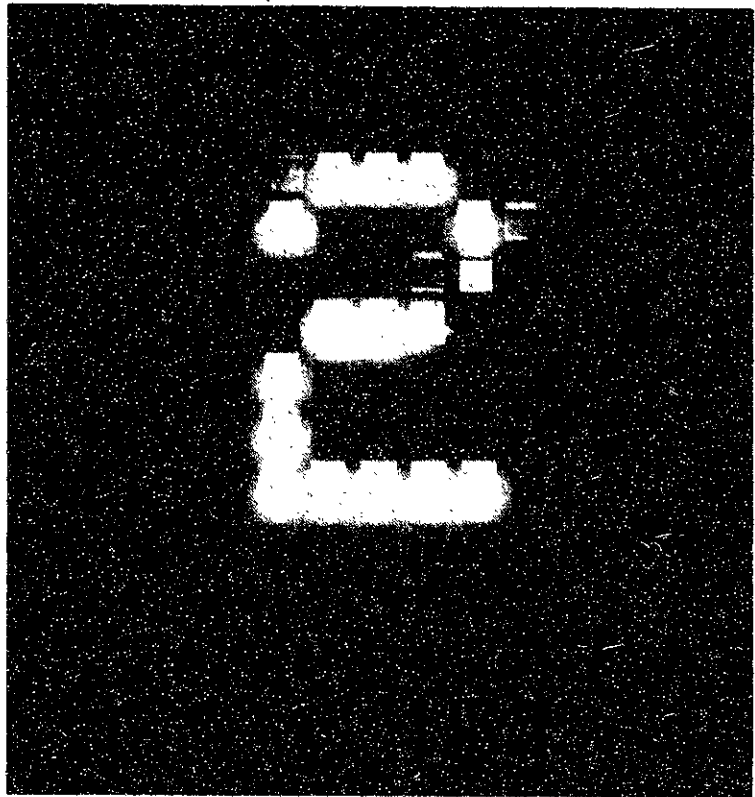
The MIT Museum has many ongoing exhibits. The Museum is located at 265 Massachusetts Ave., and is open Monday through Friday, 9 am - 5 pm, Saturday 10 am - 4 pm. Admission is free.

\* \* \* \* \*

Undergraduates who are interested in communicating with high school students (and guidance counselors) what it's like to be an MIT student are encouraged to join Project Contact. For more information please contact the Educational Council Office, 4-240, x3-3354.

\* \* \* \* \*

The Student Conservation Association (SCA) is providing opportunities for about 150 students to obtain expense-paid volunteer positions in conservation and resource management. Volunteers this winter and spring will serve in such areas as: the Virgin Islands, San Francisco, Florida, Arizona, Idaho, and Hawaii. Telephone the SCA at (603) 826-5206/5741 or send a postcard to: Student Conservation Association, PO Box 550C, Charlestown, NH 03603.



Mark Virtue

We're number 2 ? Hackers use the Green building to express their dissatisfaction with the Red Sox defeat Saturday evening. The deciding seventh game of the series was held yesterday in New York after being rained out on Sunday. The winner was...

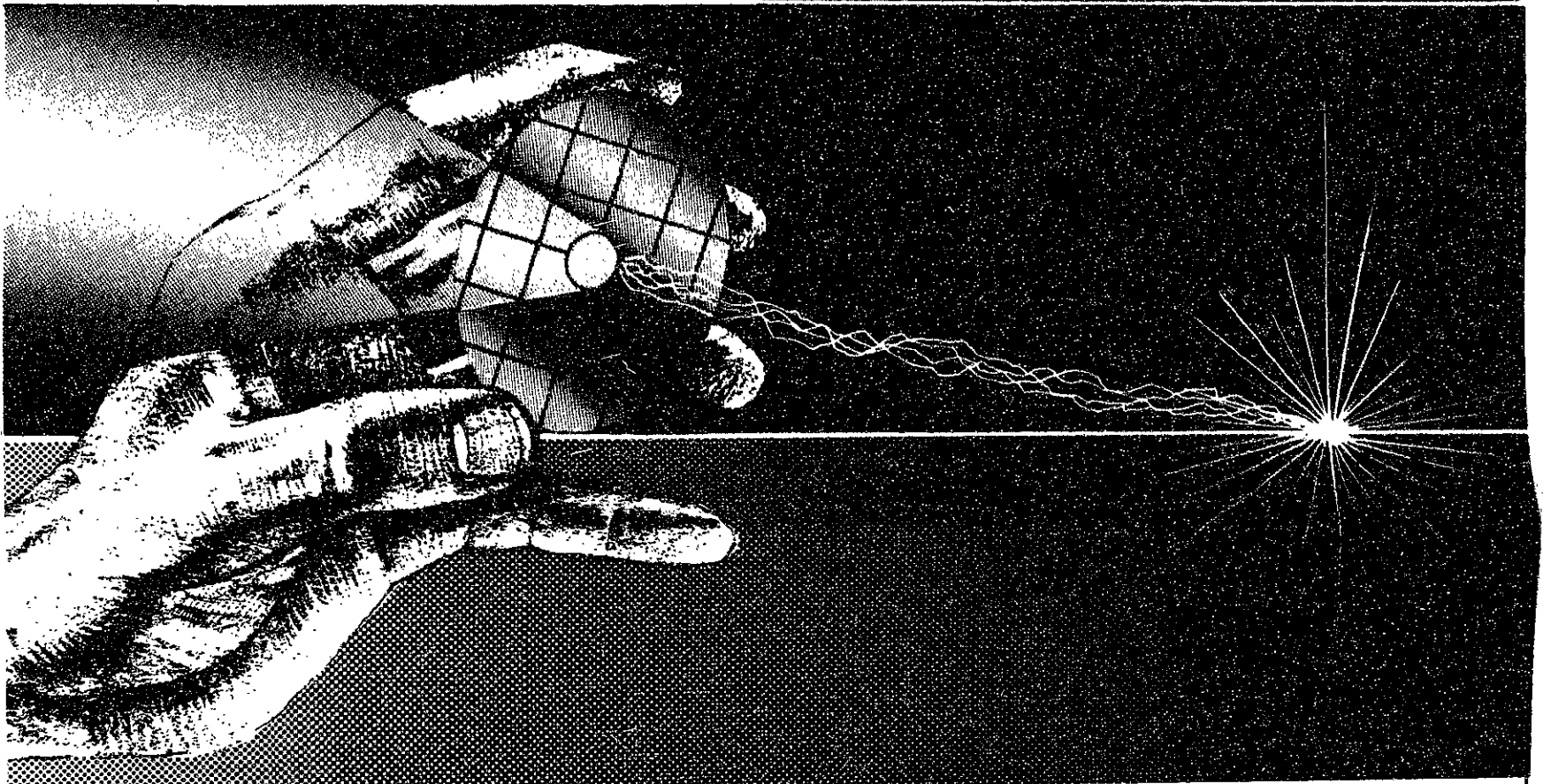


**Harvard Business School  
MBA Program**

An informal information session for prospective applicants, hosted by a representative of the Admissions Board, will be held on **November 3.**

For details, please contact **Office of Career Services.**

Harvard Business School is committed to the principle of equal educational opportunity.



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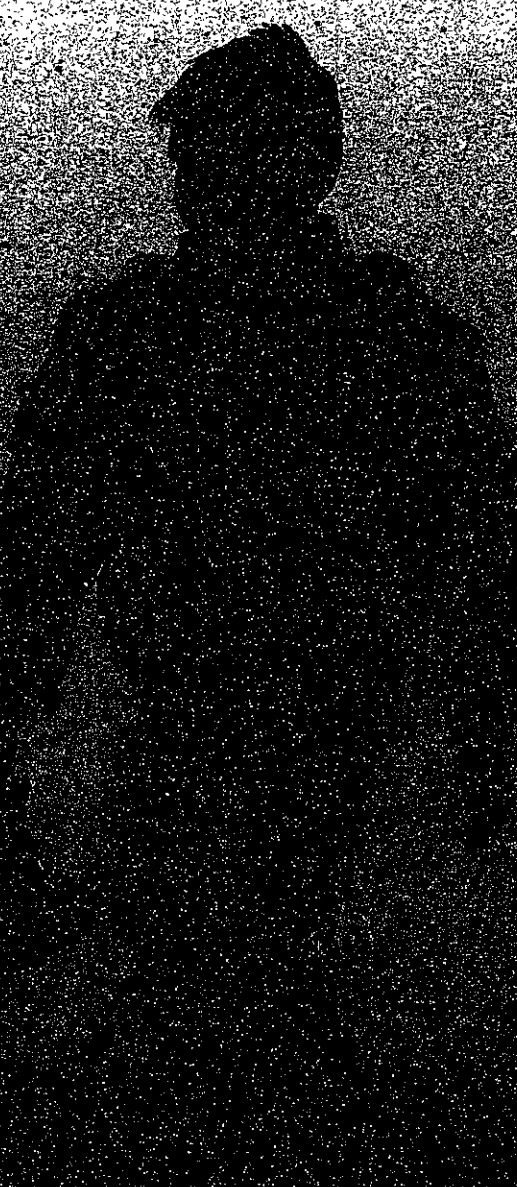
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**Larry Lynn**  
**Director of Recruiting**  
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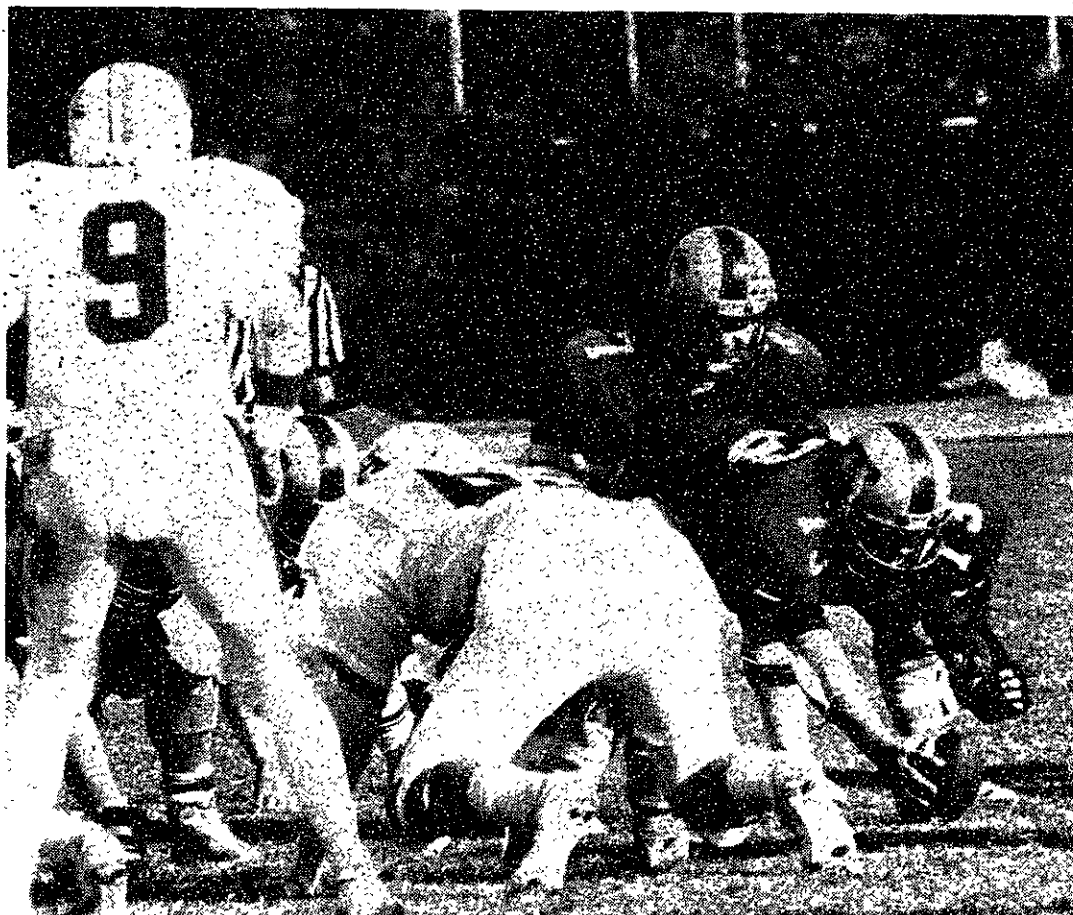
#### ■ A sign-on bonus

If you meet the Oracle standard of excellence, you may be eligible to receive a one-time bonus equal to 10% of your annual starting salary.

# photo essay

## Homecoming

Saturday October 25, 1986



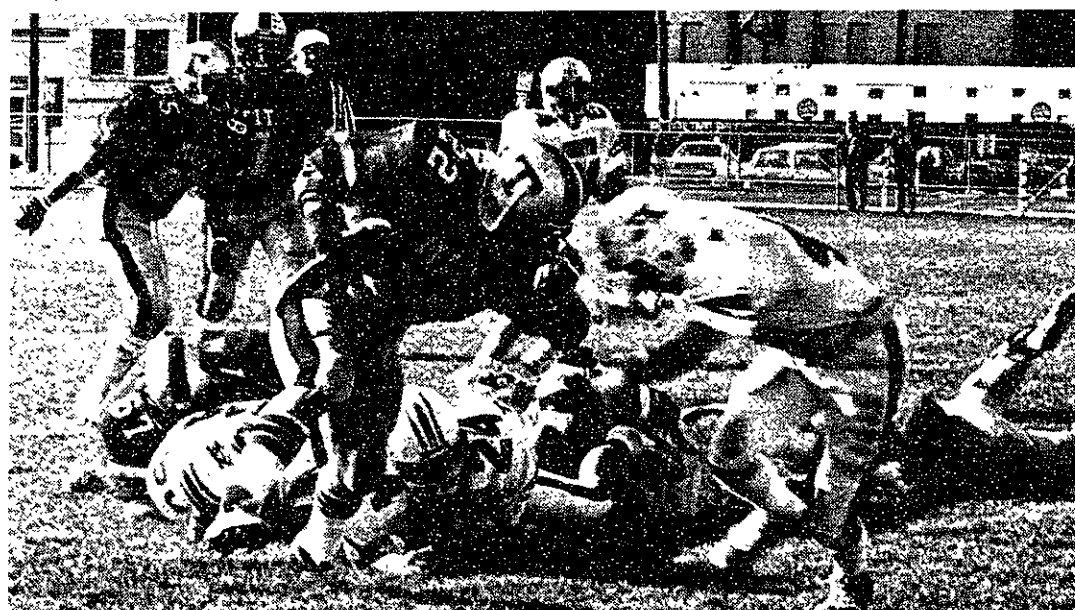
David M. Watson



Stephen P. Berczuk



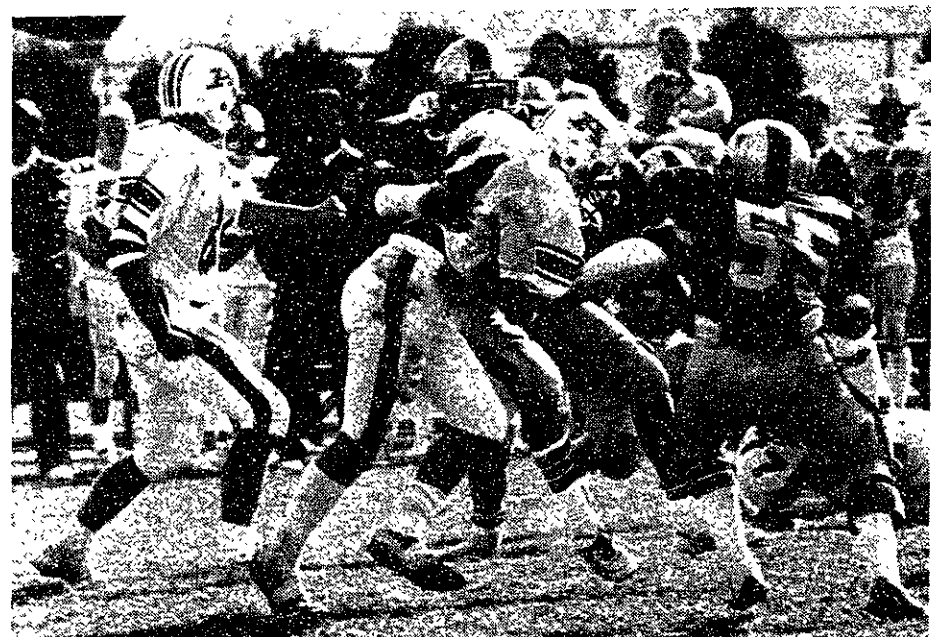
Stephen P. Berczuk



Rich Fletcher



Rich Fletcher



David M. Watson



David M. Watson

## "The Name Of The Rose" a film caricature of Umberto Eco's book

**THE NAME OF THE ROSE**  
Directed by Jean-Jacques Annaud.  
Starring Sean Connery  
and F. Murray Abraham.  
At Harvard Square and Charles Cinema.

By JULIAN WEST

**U**MBERTO ECO'S splendid medieval mystery is faithful in every detail to the original, but not in the deeper matter of spirit.

How could it be? *The Name of the Rose* was about the importance and beauty of books, and was itself a book. This tribute to knowledge cannot survive the translation to film.

The movie version is nothing more than a detective story set in a monastery in 1327. The sleuth is a Franciscan, William of Baskerville, played by Sean Connery. In case moviegoers missed the obvious allusion to another well-known English detective, he adopts a positively didactic manner and drops such lines as "My dear Adso, it's — elementary."

Unlike the adult doctor Watson, William's Adso is a young novice who worships his master. The fresh-faced newcomer Christian Slater plays him, and seems entirely incapable both of speaking and of keeping his mouth closed. His bright, inquiring eyes and open maw reminded me of Roddy McDowell's mask in "Planet of the Apes."

As is only proper for a Watson, Adso narrates the film as an old man. The voice

of the narrator is not Slater's, and sounds very much like the one in "The Wonderful World of Disney" or "Mutual of Omaha's Wild Kingdom."

The greater mysteries of the film are as abstruse as they were in the book, but the simpler questions are obvious to anyone paying a shred of attention. When William, searching for the hidden library, asks "Where are the books?" he stops and turns as the camera frames the library tower in the background.

As for the supporting characters, director Jean-Jacques Annaud has done an amazing job of matching the physical characteristics set out in the books. Which means that they look like imbeciles. These monks were the nerds of their day, but such a motley crew never assembled at MIT.

Two actors who don't fit into that category are F. Murray Abraham, who does a good job as the evil Inquisitor Bernardo Gui, and Valentina Vargas, who plays The Girl. Aside from a few of the supporting monks, she is the only woman in the film. She is, presumably, a good actor, but was given little chance to prove it with lines consisting mostly of grunts and moans. The sex scene between Slater and Vargas, gratuitous only in its extent, is absurd and indulgent, and completely out of place.

Another box office draw might be the excessive violence, which includes literally buckets of blood, torture devices, and plenty of dead bodies. This gives the makeup and special effects people plenty



A scene from "The Name of the Rose," Christian Slater (left) and Sean Connery attempt to unravel a mystery in a 14th century cloister.

of chance to show off. The special effects crew handled the gore well, atoning for the unlikely scene of pages fluttering intact above the burning library.

The library and sets are worth seeing. The interiors were filmed at a monastery in southern Germany, but the exterior was built in one giant piece on a hill near Rome. It was the largest exterior set to be built in Europe since "Cleopatra." No ex-

pense was spared on the props, either, particularly the glorious illuminated pages.

But what was bought for all that money is a rather questionable film. I am certain that the only thing I enjoyed about it was being reminded of the book.

Recommendation: read the book first. If the film has closed by the time you finish, so much the better.

## Malcolm Bilson and Anner Bylsma shine in all-Beethoven program

**MALCOLM BILSON  
AND ANNER BYLSMA**  
A Wang Celebrity Series concert.  
Oct. 25, at Jordan Hall.

By JULIE CHANG

**P**IANIST MALCOLM BILSON AND CELLIST ANNER BYLSMA collaborated Saturday evening in a recital of early Beethoven works. Their characters and styles of playing were most compatible. The two musicians chose an interesting program of rarely heard Beethoven chamber works that represented the composer's great stylistic range.

The first work, Beethoven's *Sonata in G-*

*minor, Op. 5, No. 2*, was a charming piece of tightly controlled music. Bylsma's command of his instrument was excellent, creating a beautiful tone and a wide range of color. Bilson, performing on a fortepiano, the keyboard instrument of Beethoven's time, was a bit too timid. His touch was uneven at times and he stumbled through a few passages. Nevertheless, the various moods of the sonata, from its slow, solemn introduction to its delightful concluding rondo, were captured quite well.

Next, the pair performed the *Sonata in C Major, Op. 10, No. 1*. The rich sensitive quality of the music clearly indicated Beethoven's move toward the Romantic style. The sonata represented a pivotal

point at which Classicism was rejected and a more emotional, free style of music emerged. Bilson and Bylsma's interpretation of this transitional work was very good, keeping elements of both styles in place. Most of the subtleties of the piece were controlled well, though there were a few noticeable times when the two musicians had difficulty staying together.

The musicians' performance of the *Seven Variations on the Theme "Bei Männern, Welche Liebe Fühlen"* from Mozart's *Magic Flute* was masterful, establishing clearly qualities of musical diversity and unity. Bilson impressively took command of the delicate keyboard intricacies, and Bylsma's playing was equally exciting.

The best performance of the evening was the *Sonata in A Major, Op. 69*. The duo made the most of the music's strong qualities, particularly bringing out the contrasts of calmness and power. Together, they achieved an effective balance of the lyrical and the tumultuous. They were able to carry the dynamic power of the work by emphasizing its dramatic, brilliant climaxes. The expressive voice of the cello was faultless, while the piano's lacy accompaniment was superb.

Throughout the performance, Bilson and Bylsma compensated for each other's strengths and weaknesses quite well. Despite a few minor shortcomings, the recital was an impressive display.

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## ARTS

## Audience becomes a participant in Wright's neurosis

STEVEN WRIGHT AND  
JAMES LEE STANLEYPresented by the MIT Student  
Center Committee.

By BEN Z. STANGER

**S**USPECT WAS LAST SEEN wearing white shirt, faded jeans and construction boots. The suspect was Steven Wright, and the crime — on the night of Oct. 24 — was instigating laughter without even trying.

Wright, whose receded, curly, long hair has most likely not changed since infancy, is probably the founder of "Innocuous Humor." He knows as he walks on-stage that his audience, familiar with his brand of humor, is primed to hear the first of a string of self aimed put-downs. "This morning I woke up out of a dream and went right into a daydream. . . . I've been in it ever since."

The audience is never sure what went wrong with Wright. He seems to suffer from a mixture of paranoid schizophrenia, claustrophobia, and peyote addiction, the symptoms of which he emulates throughout his performance. "I'm having flashbacks of premonitions," he says, twisting his head around in space. It is not hard to believe that when he went to court for a parking ticket, he "pleaded insanity."

Insanity is the cornerstone of Steven Wright's success. He reveals things about himself — bizarre things — which make the audience a participant in his neurosis. On the stage stands a man who has stolen the erasers from all the miniature golf pencils in the world, who shot his wooden horse because it had a crack in its leg, and who believes that we are on earth because it was too crowded "where we were supposed to go."

Wright simulates extreme disorientation to mask his subtle and clever paradoxical

questions, such as "What's another word for thesaurus?" or "If you shoot a mime should you use a silencer?" or "Do you think when they asked George Washington for an ID, he just took out a quarter?" These one-liners are timed perfectly, preventing his audience from thinking too much about them, while Wright himself seems profoundly disturbed at not having the answers.

Wright's monotonic delivery, which is impossible to describe and must be experienced for full effect, is the most distinctive part of his routine. Unfortunately, much of the material Wright used in his performance was old stuff, as owners of his "I Have a Pony" album probably noticed. One of his most popular acts is a song in which he likens his girlfriend Rachel to a rock concert: she makes a lot of noise, she throws frisbees around the room, and when she wants more she lights a match. So much for discreet sex.

Picture yourself in a restaurant advertising that it serves "Breakfast Anytime." A man walks in and with a monotone asks: "Could I have some French Toast during the Renaissance?" You know you are in the Wright place.

"Now they're paying  
me to come back."

James Lee Stanley's combination of serious singing and hilarious jokes put him half-way between a comedian and a singer.

His first song, "Three Monkeys," had a chilling effect:

*Silence is the art of  
Keeping three  
Monkeys in your heart . . .  
See no evil, hear no evil,  
Speak no evil.*

Stanley sang a "Latin" song which he wrote using lyrics from a medical encyclopedia (because he knew no Spanish). The medley began, "Oh digitalis, Oh cortizone, . . . BABALOOO" and "This is what it sounds like, when tortillas fry." It kept members of the audience perpetually catching their breaths.

He finished with another poignant song, "Racing the Moon," about the hazards of going too fast — in the back seat of a car.



Photo Credit: Tony Costa



Lisette W. Lambregts

The Chorallaries sing during Saturday's Greater Boston Invitational Songfest. They will give their next concert with the Logarithms in early December.

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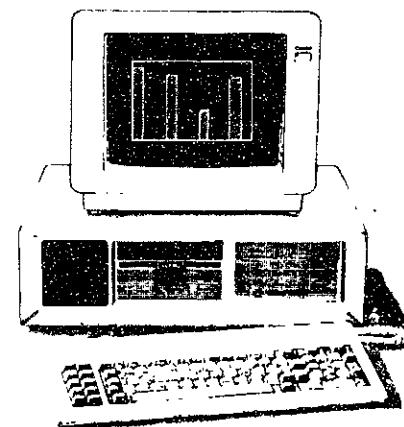
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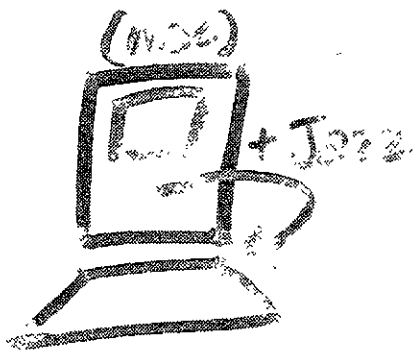
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## MSIG suggests policy changes

(Continued from page 1)

all MIT students must face, are intensified for minority students, according to the report.

Minority students encounter increased "feelings of isolation, insecurity about their admission because of the perception that others at the Institute believe lower standards are used when admitting minority students, and anxiety about their families' ability to provide the financial assistance expected by the Institute," the report said.

They also feel "perceived contempt from non-minority students, faculty, administrators, and staff," the MSIG report stated. Many minority students believe MIT is a "generally non-supportive environment in which minorities must constantly prove they are equal, both intellectually and socially," the report added.

### Report makes broad recommendations

"We must spare no effort to improve the experience here for minority students," Gray said. "The issue of racism on this campus must continue to be addressed openly and directly by all members of the faculty and by every member of the MIT community as we strive to identify and eliminate inadvertent or deliberate behavior that is inappropriate for our community and for this university."

The MSIG made numerous recommendations aimed at improving the racial situation at MIT, such as:

- Creating a visiting committee devoted to minority issues.
- Formulating new policies on disciplinary responses to racist incidents.
- Urging the Faculty Policy Committee to develop a statement of professional responsibilities for faculty with respect to racist behavior.
- Asking the Equal Opportunity Committee to establish Extraordinary Achievement Awards to honor MIT faculty or staff who promote equal opportunity.
- Enlisting black faculty in the teaching of undergraduate core courses.
- Adding subjects that deal with race and "the history, literature, culture, and scientific and engineering contributions of blacks and other minority groups."
- Identifying outstanding minority individuals from around the country who are qualified to join MIT's faculty.

Provost John M. Deutch '61 commented, "Increasing the number of minorities and women on the faculty is our number one priority in affirmative action."

The MSIG will issue a paper on minority recruitment, admissions, and financial aid in December.

## Excerpts from responses to 1985 Black Alumni Survey

(Editor's note: The following is a sample of responses to the 1985 Black Alumni Survey, taken from "The Racial Climate on the MIT Campus" issued by the Minority Student Issues Group. The survey results are based on responses from 137 of the 671 black students who entered MIT between 1969 and 1981. The report did not specify when any of these incidents occurred.)

### Relations with faculty

- "One professor had a hang-up about black people. I went to him about a grade, and he said that 'maybe you people should go somewhere and do things you people can do.' This was not uncommon. Many of my friends had this happen."
- "A professor stayed after class one time to ask me a question. He told me that his son did not make it into MIT and that it was a shame that I had made it in. He felt that blacks could not be engineers."
- "At times, professors would ask me to drop the course when I didn't feel it was appropriate. This happened two or three times. They assumed I couldn't handle it and told me to drop instead of helping, and I was outraged."
- "One classmate had a professor tell her that blacks don't do well in math because they lack spatial sense and math sense. She was a straight A student and this blew her mind — and mine."
- "My reluctance to approach teaching assistants or professors to help fill the gaps in my knowledge had a negative effect on my academic performance. I don't really know why that is. In my freshman year, I went for help and was told to drop the course. I worked hard and got an A on the final and didn't go for help again. It created a barrier."

### Preparation for MIT

- "There were two types of blacks at MIT: those who were completely prepared for MIT and the rest of us. We had aptitude, but we couldn't keep up. White students — their parents were engineers. They had taken apart the family car."
- "I had more than enough adequate mental capacity, but I was not exposed to enough of a challenge before MIT. The pace of MIT was torrid and generally oblivious to what high schools are doing. MIT's pace is more geared to private high schools. But, it was good that I, and others like me, were at MIT. It kept us from being elitist. The white guys were used to what was brand new for us."

### Living-group experiences

- "There were only two blacks in the whole dorm. All activities were without our real input because we were in the minority with little say so. I stayed there out of necessity because it cost too much to move out."
- "We had a suite at MacGregor. There was a closeness among the brothers. You could vent your frustrations. It was enjoyable. We helped one another and had common interests in sports, music, books, etc. As a black student, you had to *unite*, be willing to help and be helped."
- "I was in New House known as GC. It was primarily black male students. That was one of the things that kept me [at MIT] as long as it did. The upperclassmen there serve as role models. We felt that being in a predominantly white institution after being in courses where you were a minority, it was nice to come home to an environment where you are not in the minority."
- "The living experience was all right, but I didn't fit into the norm. A typical party was 'let's drink beer and get drunk and pass out.' I wasn't into that so I went to black parties and just hung out with friends."

### Black-white relations

- "I didn't know too many white students because I'd get hostile feelings from them. They were too much into competition. They were too much into studies — building better bombs. MIT was their whole world and we couldn't be that way. We had to be concerned about the world because we were suffering there."
- "There were two types of non-blacks in terms of their attitude: the class of the elite and those who hadn't seen any blacks except for television. Forty percent acted as if they had reactions. One was of novelty. My father told me about you."

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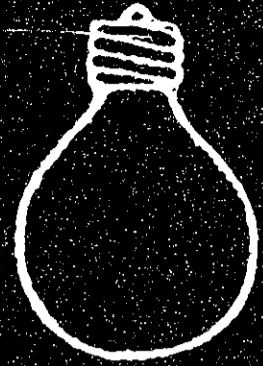
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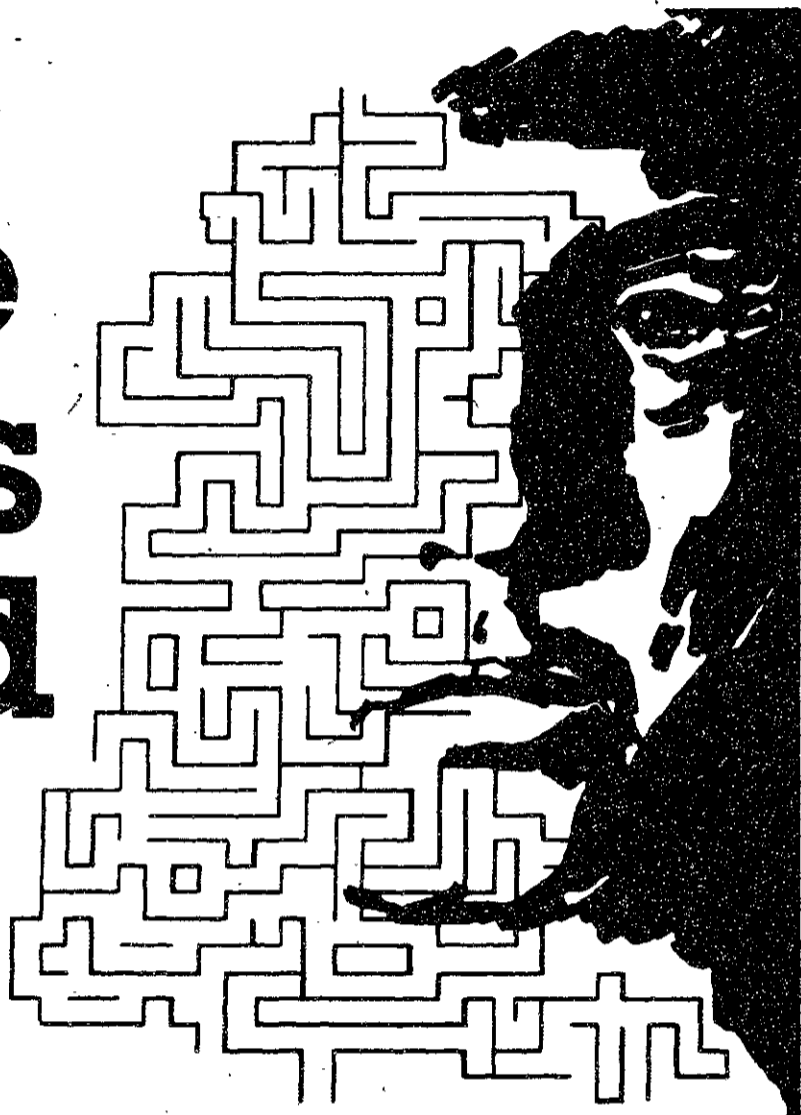
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**SDC will give a technical presentation on Thursday, November 6th from 7:00-9:00 PM in Room 4-149. Admission is open.**

*Guest speakers for this presentation are:*  
**Don Brinkley**, Staff Research Scientist in SDC's McLean Research Center. Received his M.S. and B.S. in Electrical Engineering and Computer Science from MIT in 1980.

**Jose Rodriguez**, Research Scientist Associate in Network Technologies Branch of SDC's McLean Research Center. Received his B.S. in Electrical Engineering and Computer Science from MIT in 1983.



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# Students boycott classes

(Continued from page 1) warned, however, that "the decision not to press charges is not a precedent for future action. . . . We cannot make a practice of calling on the help of Town law enforcement agencies and the courts of the Commonwealth, and then withdrawing charges."

Keohane, who is herself in favor of divestment, said, "I believe it was right to arrest [the students]. . . . I don't think there was any choice." Blocking the entrance effectively disabled the campus, she explained.

One of the protestors, Jill Johnson W '87, was arrested after she refused to move from the College Club entrance to

Wellesley. The protestors knew they would be arrested, Johnson said, but agreed ahead of time to give the name of Winnie Mandela when asked.

"We didn't know what was happening up until the last minute," Johnson said, referring to the possibility that students would be sent to the correctional institution. Police officers told her the only reason the students didn't go there was a lack of available space. "I was really scared."

These were the first widespread arrests on campus in at least 11 years, Keohane said.

### Boycott and rally have "mixed" effect

The impact of Friday's boycott was "mixed," Keohane said after talking to representatives from Wellesley's largest departments, Art and English. Some professors held a vote to decide whether class would meet, while others cancelled class entirely, Keohane said. Her speech at the rally did not encourage students to return to class.

But student protestors found it difficult to explain why the rally attendance was only a fifth of the estimated number of students boycotting classes.

At the end of the rally, the protestors formed a human chain around the Wellesley academic quadrangle and chanted "We shall overcome" to the ringing of the Green Hall bell tower.

The Board of Trustees will take up the divestment issue again next February.

# Several factors caused space shuttle disaster

(Continued from page 1) lenger to explode, according to Covert.

Covert described in fine detail the possible scenarios and technical flaws that could have caused the failure. "In my experience in accident investigations . . . usually there's not a single factor that causes an accident . . . [but] a combination of two or three or four events," which frequently have to occur in a precise order for an accident to take place, said Covert.

Covert outlined several such factors contributing to the Challenger's failure:

- Cold temperature's effect on the o-rings.
- An imbalance of the rocket cases — one was used in four previous flights, the other in five.
- Pin holes in the putty which initially allowed hot gases to escape. These leaks may have been exacerbated by gusty winds, Covert noted.

### Covert explains panel's investigation process

The panel started out its investigation in the classic way, with a

"fault tree," Covert said. "We had an explosion . . . and that led to a structural break up of the external tank and that led to . . . various parts which could have caused the failure: the orbiter, the main engine, the solid rocket, the external tank, and the solid rocket booster," he said.

The panel was able to "very quickly eliminate the main engine as part of the source of involvement," Covert said. The panel finally decided the problem had to be in the solid rocket booster.

"I have to say in all honesty that this failure has never been duplicated under control conditions," Covert said. "In order to make sure you're fixing the right things," scientists should be able to duplicate the accident under control conditions, he continued.

Covert underscored the importance of recognizing the accomplishments of the Shuttle's 17 flights. The Shuttle's budget was approximately half that of the Apollo program which put a man on the moon, and the Shuttle's budgetary and technological pressures were higher, he said.

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Monday, November 3, 1986:

2:30-2:45 p.m.	Introduction to Oceanography
2:45-3:30 p.m.	Biological Oceanography
3:30-4:15 p.m.	Chemical Oceanography
4:15-5:00 p.m.	Marine Geology and Geophysics
5:00-5:30 p.m.	Refreshments

Tuesday, November 4, 1986:

2:30-3:15 p.m.	Physical Oceanography
3:15-4:00 p.m.	Oceanographic Engineering
4:00-5:00 p.m.	Discussion
5:00-5:30 p.m.	Refreshments

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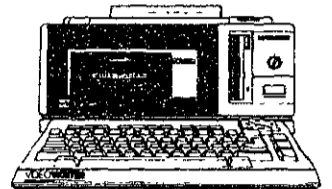
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Interviews at MIT will be  
 conducted November 4th and 5th

\*Cancellation must be made 24 hours in advance.

A project of the Metropolitan Outreach Program of the B'nai B'rith Hillel Council of Greater Boston, 233 Bay State Road, Boston, MA 02215 • Rochelle Steinberg, Director of Jewish Introductions.

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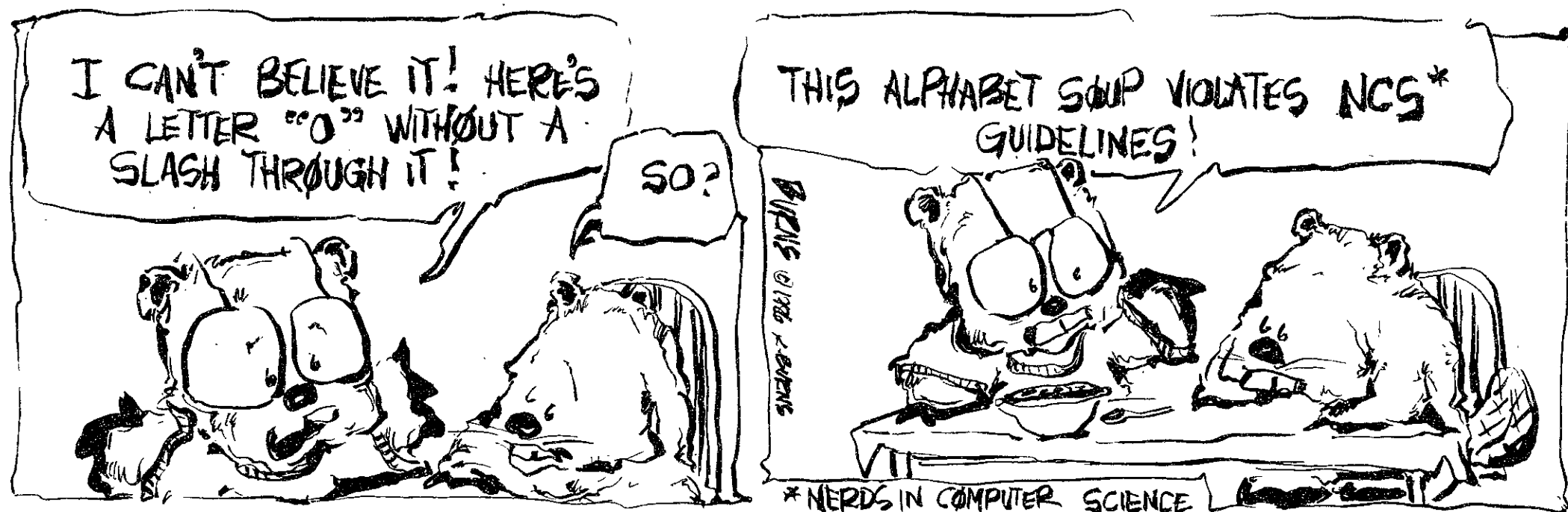
Tuesday, October 28, 1986  
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 7:30 p.m.

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# comics

.T.I.M Beaver

By Kevin Burns



## classified advertising

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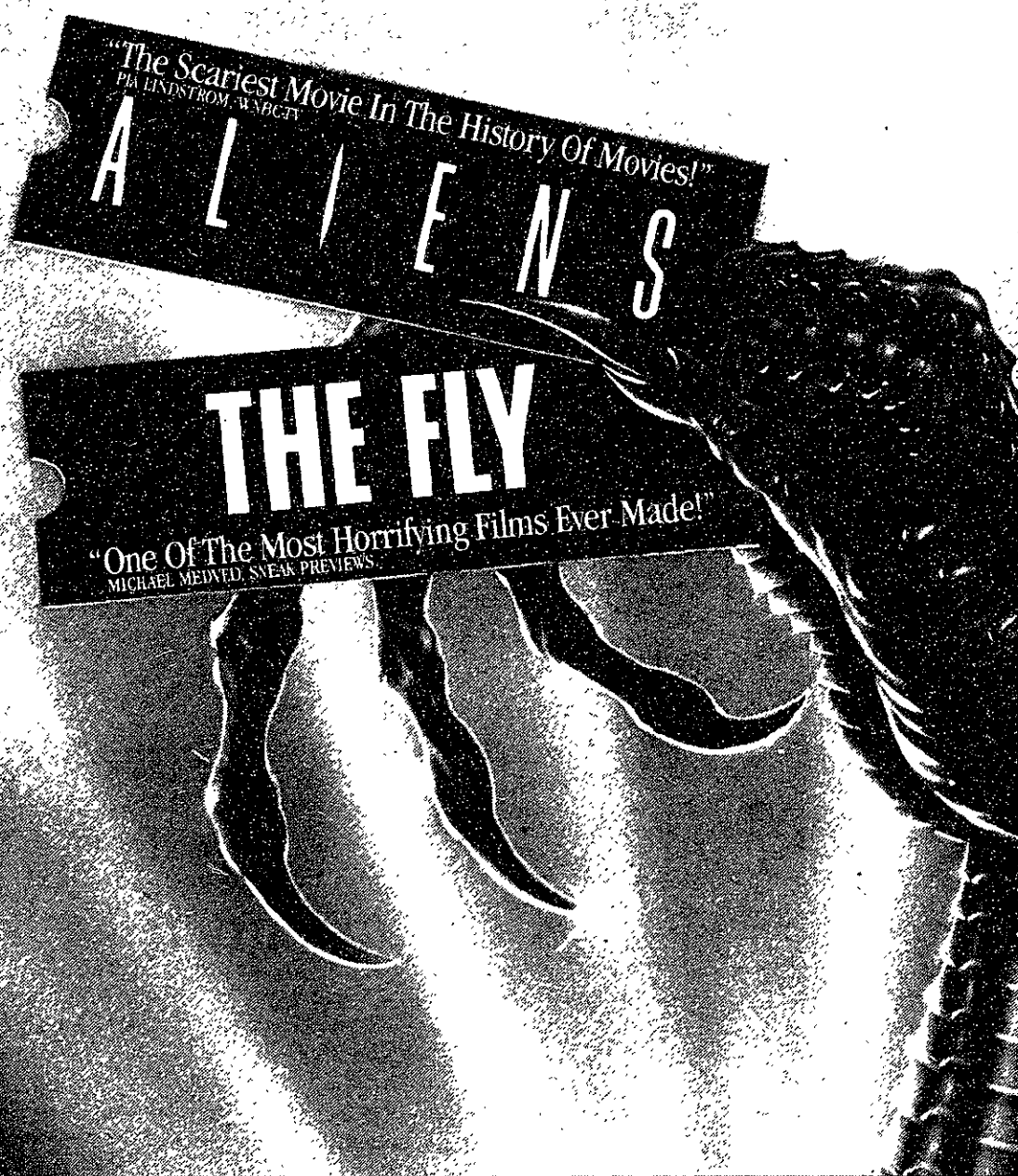
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# sports

## Football club shuts out Assumption, 14-0

By Harold A. Stern

A record-breaking performance from Christopher J. Adams '87 led the MIT football club to a convincing 14-0 homecoming victory over Assumption College.

As usual, it was the Beaver rushing attack, averaging 275 yards per game this season, that paced MIT's offense. The Greyhounds' inability to stop the MIT rush became apparent early in the first half.

Midway through the first quarter, a Mark Naugle '90 interception set up MIT's first score. Adams took a handoff to the left side, and drove all the way into the end zone for a 24-yard touchdown.

Adams finished the day with

204 ground yards on 24 carries, an MIT record. His performance brought his season total to 728 yards, breaking his own MIT single-season rushing mark set last year.

Five minutes after Adams' touchdown scamper, Assumption gave the ball back to MIT. Quarterback Peter J. Gasparini '88 handed off to Hugh Ekberg '88, who saw daylight down the right side, and raced 70 yards for MIT's second touchdown.

Herman Reyes '87, MIT's first-year placekicker, converted after both touchdowns, improving his season record to 14 of 17.

The game settled down after MIT's two quick scores. Assumption was unable to mount a sustained drive, as the MIT defense

dominated the line of scrimmage, shutting down both the rush and pass. Assumption's offense moved the ball 89 net yards on the afternoon; Beaver penalties moved it 112. The squad of Richard Rice '87, Chris Moreno '88, Mark Mitchke '90, and Paul Anderson '90 recorded a total of six sacks, and broke up countless other plays.

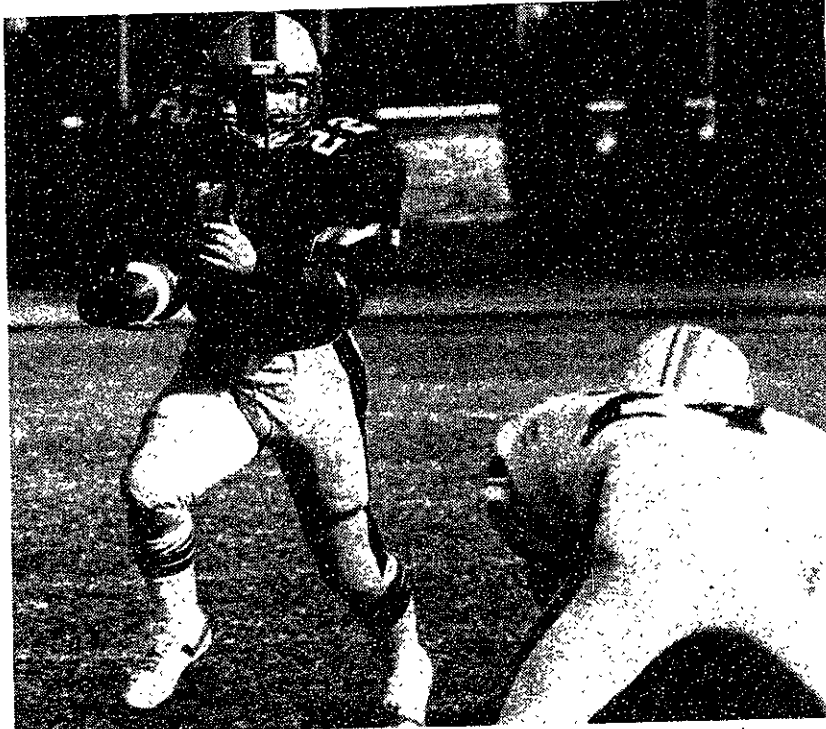
But the Beaver offense was paralyzed by its own errors — fumbles, interceptions, and penalties broke up several promising drives.

Assumption had several scoring opportunities in the second quarter, only to be thwarted by the stingy MIT defense. Mid-way through the second quarter, Assumption marched into MIT territory. On fourth down at the MIT 9-yard line, Assumption faked a field goal attempt. Mitchke, who put in a fine performance on the day (two sacks, five tackles) stopped the ball carrier short of the first down.

With 1:12 left to play in the first-half, an MIT punt gave Assumption a chance to close the 14-point gap before the half. But pressure from the defensive line forced the Assumption quarterback to hurry a pass, intercepted by Shane Arnold '88.

The offense was not entirely to blame for the large number of MIT penalties; the defense had its share as well. An apparent interception by Rick Buellesbach '90 was called back in the third quarter, when the left side of the defensive line jumped offside.

MIT squandered a number of chances to add to its lead in the fourth quarter. With first-and-



David M. Watson

Chris Adams '87 sprints ahead in Saturday's game vs. Assumption College. MIT won 14-0.

### MIT 14, Assumption 0

Assumption	0	0	0	0	0
MIT	7	7	0	0	0

MIT — Adams 27 run (Reyes kick)  
MIT — Ekberg 70 run (Reyes kick)  
Attendance — 400

	MIT	Assumption
First downs	11	7
Rushes-yards	53-377	32-22
Passing yards	11	67
Passes	1-8-1	7-26-1
Return yards	20	31
Punts	6-210	8-324
Fumbles-lost	4-2	2-0
Penalties-yards	12-112	3-34

MIT Individual Leaders  
Rushing — Adams 24-204, Ekberg 17-112, Gasparini 9-56, Maeda 3-5.  
Passing — Gasparini 1-7-1-11, Adams 0-1-0-0.  
Receiving — Jones 1-11.  
Sacks — Rice 2½, Mitchke 2, Moreno 2.  
Tackles — Rice 12, Arnold 9, Buellesbach 6, King 5, Mitchke 5, Moreno 5.



Mark Virtue

Benjamin Paul G reaches for the ball during a line up in the men's rugby game vs. Worcester Men's Club. MIT lost 28-0.

## notices

The National Consortium for Graduate Degrees for Minorities in Engineering, Inc. (GEM) is accepting applications for its fellowship program which will provide 125 fellowships to minority students in engineering for 1987. Applications must be received by December 1, 1987. Information on the program, as well as application materials, may be obtained from: GEM, PO Box 537, Notre Dame, IN 46556.

\* \* \* \*

A coffeehouse is being held for gay and lesbian graduate students on the first Tuesday of each month at 4 pm in the GAMIT lounge, 50-306 (Walker). For more information call 494-0148.

\* \* \* \*

The National Space Club will award a \$7,500 Dr. Robert H. Goddard Scholarship for the academic year 1987-88. The award is given to stimulate the interest of talented students in the opportunity to advance scientific knowledge through space research and exploration. For more information contact: National Space Club/Goddard Scholarship, 655 15th St., N.W., Suite 300, Washington D.C. 20005.

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