

## Text of housing policy

*(Editor's note: The following is the text of the Graduate Student Council's proposal for restructuring tenure policy in Institute graduate housing.)*

### Proposal:

We propose that the Institute reserve 400 spaces in the housing system exclusively for entering graduate students on a one-year lease basis, with no tenure privileges. These spaces would be set aside in each graduate house with the same percentage of total spaces in each house.

There will be two separate lotteries, one for tenured spaces (as in the current system), and one for untenured spaces. The latter would be for one year, non-renewable, unbreakable leases, starting in September. The tenured lottery would be open to all graduate students. Students may apply only to a single lottery. This proposal is to be phased in over a two to three year period.

### Justification:

The current housing policy consists of a lottery for all spaces available in September. Although approximately half of the available spaces are reserved for new graduate students, only one out of every five requests is eventually granted. Many more rooms become available during the course of the year, but these of course are filled with students who originally had to find other places to live.

Our recommendation that 400 spaces be set aside would roughly double the number of rooms available in September and would increase the fraction of the first-year students that may be housed on campus in September from 18 percent to 35.

*(Please turn to page 2)*

## GSC revises housing tenure

By Michael J. Garrison

The Graduate Student Council released a proposal last week calling for the establishment of "400 spaces in the housing system exclusively for entering graduate students on a one-year lease basis."

In "An Open Letter To The Institute," the GSC listed five concerns which shaped the proposal:

- That current dormitory residents will not be affected.

- That new graduate students will receive preferential assignment.

- That the lack of continuity will not harm "the strong social community within residences."

- That no students are unfairly attracted to MIT with "the promise of housing which is denied after the first year."

- That new graduate students be helped through the transition from undergraduate study.

The proposal "is an emergency measure to help new students, and we want to get it going fast," GSC Vice President Carey M. Rappaport explained. The program will take two to three years

to implement, he said, since spaces must become open through vacancies. "It will be phased in gradually; no space will be taken away from anybody."

This means the program "has to be done immediately if it is to be useful," Rappaport added. "[Senior Vice President William R. Dickson '56] said new graduate housing would be built in 2½-3 years."

Dickson spoke before a GSC meeting Sept. 17 ["List of dorm sites narrows," Sept. 23] and reported on MIT's drive to build more graduate housing.

The plan as "a voice for students who aren't here now," Rappaport said. "It helps the people who need housing the most," he noted. "It's real tough for new students, especially international students."

Similar proposals have been submitted in the past. The GSC did not endorse a one-year lease proposal made last year. "There were probably several ununited voices speaking on this," Rappaport commented. "That's one of the reasons why... we put this together."

The GSC's Administrative Housing Group reported in 1982 on several alternatives to the present graduate housing system, including limiting the length of graduate leases. The group rejected all of the models it studied because of expense and inconvenience, according to the GSC's

letter.

The proposal is "a little bit inconvenient," Rappaport admitted. The one-year leases have to be taken in September, and the student can not break the lease over the year.

"It is quite possible" the proposal will be accepted soon, Rappaport said. "Violent student opposition" might halt its implementation, but that seems unlikely since the plan "doesn't hurt current students," Rappaport said.

The plan has received a lot of favorable responses, Rappaport said. "Dickson... was not opposed to the idea," and the Housing Office was "eager" to implement the proposal.

Dean for Student Affairs Shirley M. McBay also supported the idea, he said, but stressed that it should not be seen "as an alternative to building new dorms." Rappaport also sent a copy to O. Robert Simha '57, director of the MIT Planning Office.

The Housing Office would be responsible for implementation of the plan, Rappaport said. "Each house could decide... however it sees fit" which rooms would be included, he added.

The proposal details a system of two lotteries, one for the one-year rooms and another for the tenured (unlimited stay) rooms. Rappaport suggested, however, that the Housing Office might move to a single-lottery system if it were to prove easier.

## Arrested students repayed

By Andrew L. Fish

Private donations have reimbursed the court costs of six members of the MIT Coalition Against Apartheid arrested March 14 at the shantytown on Kresge Oval. Professors Willard Johnson and Gretchen Kalong '80 created the fund after MIT refused to absorb the \$87 in charges assessed each individual.

Kevin T. Christopher '88, Stephen F. Fernandez '86, Jonathon A. Garen '88, Seth D. Goldstein '86, Michael Levine '87, and Alex B. Rosen '88 were among the eight arrested for interfering with the removal of the shantytown constructed to protest MIT's holdings in companies doing business with South Africa. All six had admitted to sufficient facts for the court to impose court costs of \$72 and a victim witness fee of \$15.

Two others, Arnold Contreras '87 and Lawrence K. Kolodney

G, opted for a jury trial. Kolodney was acquitted, but Contreras was convicted and is currently planning an appeal. Neither has incurred any costs during their proceedings.

The fund's remaining money, approximately \$50, will be applied to any charges Contreras incurs, Johnson said. Any money still remaining will be donated to the International Defense and Aid Fund, which "supports South African victims of apartheid," Johnson said.

### Students react to reimbursement

"I appreciate the work that Willard Johnson did," Fernandez said, "but I'm still upset that Paul Gray never made any formal apology."

"I thought it was really weird," Levine said. He said he didn't know the origin of the money. The students were sent checks

from MIT with no explanation.

Johnson said he had been concentrating on informing the approximately 30 donors about the dispersal of funds. Johnson had assumed that the students were aware of the project, he said.

## Survey reveals views on education

By Michael Gojer

*First in a series.*

Undergraduates at MIT perceive a significant discrepancy between their reasons for taking classes in the humanities, arts, and social sciences and MIT's reasons for offering them, according to MIT's Student Pugwash 1984 survey.

Forty-six percent of students polled — including 52 percent of upperclassmen — said the intrinsic value of HASS courses was their most important reason for taking them.

Ironically, a plurality of under-

graduates believed that MIT cared least about the intrinsic value of humanities classes.

The survey showed that, in increasing percentages by class, students believed MIT's most important goal in structuring the HASS requirements was to foster communication and management skills, and in decreasing percentages by class felt MIT's most important goal was to examine the social impact and relevance of science and technology.

While students were satisfied with the number of humanities courses they were taking, over two-thirds of upperclass students polled said that, if not for the requirements, they would take a different combination of HASS courses.

### Is MIT's curriculum flexible enough?

The majority of upperclass respondents — 60 percent — felt that their department's requirements were flexible enough to design a major that suited their academic interests.

Undergraduates in the School of Humanities and Social Sciences were the most satisfied, as 90 percent felt they had sufficient academic freedom. Almost three-fourths of the undergraduates enrolled in the School of Science also approved of their department's flexibility.

On the other hand, the Schools of Engineering and Management received somewhat lower flexibility.

*(Please turn to page 2)*

## Forum discusses R/O week changes

By Sarita Gandhi

Students expressed their grievances about the Residence/Orientation experience at a Undergraduate Association forum on Aug. 25. The forum — the first of several forums addressing freshmen

R/O — discussed the changes made to the opening events of R/O week this year.

The first topic discussed was starting rush events three hours earlier. Although there was some sentiment that freshmen were

faced with increased pressure this year to decide upon a living group, most felt the change was fine.

More attention was focused on the behavior of the living groups during the first few minutes of rush on Kresge Oval. Freshmen mentioned that they did not hear the speech which announced the exact moment when rush was to begin. One complained of literally being picked up and carried away.

Aimee M. Smrz '88 was concerned by the number of freshmen who did not know what was going to happen as they exited Kresge Auditorium. Many freshmen were confused as to what they were supposed to do, she commented.

Women were especially at odds, felt another student. There were many more all-male groups than all-female, she noted. "That means when you are a female standing on Kresge Oval watching most the men being swept up by various upperclassmen, you feel just a little bit left out," she said.

Undergraduate Association President Bryan R. Moser '87

## MIT and Caltech collaborate on new gravity-wave detector

### Feature

By Kenyon D. Potter

Research teams from MIT and the California Institute of Technology have combined efforts on the largest joint venture in their histories, according to Kenneth A. Smith '58, vice president for research at MIT.

Formally established in 1983, this cooperative project will construct the Light Interferometer Gravitational Wave Observatory (LIGO), said Rainer Weiss '55, head of the MIT team. The observatory will detect and examine gravitational waves as an optical telescope observes electromagnetic radiation, he said.

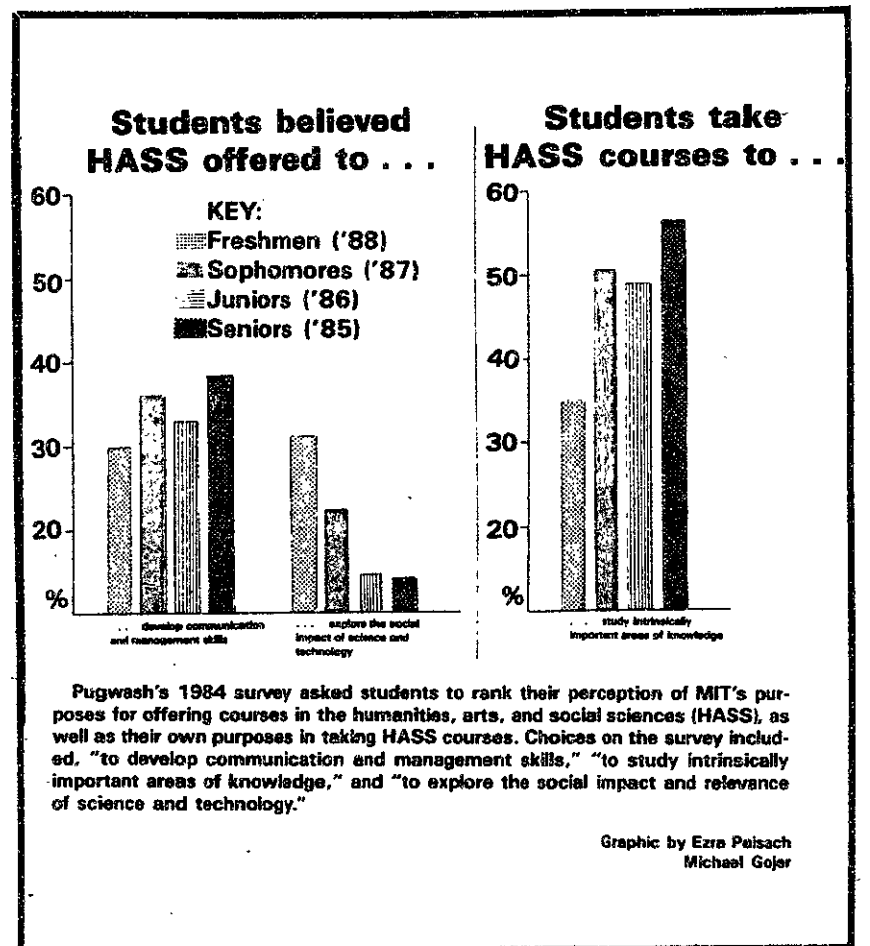
Advancing the frontiers of physics, the project is now international in scope. The Max

Planck Institute in West Germany will be involved, as will Glasgow University, the Space and Astronautical Institute of Tokyo, and a research group at Orsay, France, Weiss said.

The MIT team also includes Peter R. Saulson, Paul S. Linsay, Andrew D. Jeffries and Michael Burka. Ron Drever leads the Caltech group. These teams, currently operating on an annual budget of several million dollars from the National Science Foundation, have requested an additional \$50 million from the foundation to build LIGO, known also as a gravity wave detector.

Einstein's theory of relativity predicts that accelerating masses should produce gravity waves (distortions in the space-time continuum) just as accelerating

*(Please turn to page 14)*



## Pugwash surveys student views

(Continued from page 1)  
 ity ratings from their students: only 54 percent and 57 percent, respectively, of students in the two schools were satisfied with the flexibility of the department's requirements.

The survey addressed other educational issues as well, includ-

ing the following topics:

- **Structure of courses:** 63 percent of the upperclassmen who expressed a preference favored classes which were highly structured.

- **Advising system:** 78 percent of upperclassmen said they were satisfied with the accessibility of their current advisors; 76 percent

said they were satisfied with their advisor's academic advice.

The survey, which was designed and administered in 1984 by MIT's Student Pugwash, was intended to study MIT students' views on education, science, and technology, according to Robin Wagner, co-founder of MIT Student Pugwash and coordinator of the survey project. The survey is still in the final stages of analysis.

"Students can influence policy at MIT... if you have the facts," Wagner said. "This survey was an attempt to gather the facts." MIT Student Pugwash will be preparing a report of its findings, which they hope to complete this term, she said.

## UA sponsors forum on changes to R/O week

(Continued from page 1)  
 then asked, "Who makes the final decisions about R/O week?"

After just about all the possible committees and combinations of committees were named, it was obvious that nobody quite knew exactly who made the decisions. Moser finally revealed that Associate Provost S. Jay Keyser in consultation with various student committees had made the final decisions concerning R/O week this year.

There was definite agreement that students should be part of the process, but opinions differed widely on in what form (R/O committee, elected representatives, appointed representatives, anyone), in what proportions (independent living groups vs. dormitory residents), and how student representation would connect with the faculty and administration.

The next forum, slated for mid-October, will continue R/O week discussion. Included topics are flushing, the length of rush week, separation of the residence part of the week from the orientation part, as well as concern over the amount of pressure freshmen feel in needing to decide upon a living group within a few days.

Moser commented that this evening was solely a forum to

discuss viewpoints, not to reach conclusions. That, he said, will be taken care of in future meetings.



Shari L. Jackson  
 Josh Wantabe '87 and Michael Colao '87 discuss this year's Residence/Orientation week with Undergraduate Association President Bryan R. Moser '87 (center) during a UA forum last Thursday.

## Text of new GSC plan

(Continued from page 1)

percent. This will give a fair and representative share of the available housing to first-year graduate students. Because new students can only apply to a single lottery, the total number of applicants to the tenured lottery will remain low and this will maintain the current odds for returning students in the tenured lottery.

Since Housing Office statistics indicate that almost half of the Institute's dormitory rooms and apartments are vacated each year, there will be almost as many spaces available for continuing students in the proposed tenure lottery as are available in the current September lottery. This new system will create 150 additional spaces opening in September, but these will come from a decrease in the number of openings during the year because the non-tenured spaces have an unbreakable one-year lease. As with the current system, graduate students who seek on-campus housing after September would be given tenured spaces as they become available.

This plan would have to be phased in over a period of two or three years so that an adequate pool of rooms can become designated for non-tenured leases without affecting current residents. Details of this process can be determined by the MIT Housing Office as necessary. This will also provide an avenue for adjusting the new system during its implementation if it becomes necessary.

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# news roundup

from the associated press wire

## World

### Philippine arrest may endanger cease-fire

The arrest by the Philippine military of a top communist leader may jeopardize the cease-fire negotiations which are the thrust of President Corazon C. Aquino's counter-insurgency policy.

The military was placed on alert to guard against reprisal attacks, with special protection given to members of the government's negotiating panel. Defense Minister Juan Ponce Enrile has argued for stronger military action against the insurgents, but the government says it is keeping the door open to cease-fire agreements.

The New People's Army, the armed wing of the Communist Party, accuses the government of preparing the military forces for a full-strength attack on the communist insurgents, claiming the arrest was deliberately timed by the military in order to upset peace negotiations.

The government has refused a rebel-demanded release of the arrested Communist leader, Rodolfo Salas, but has suggested that the issue be added to the agenda for the peace talks. (The New York Times)

### French fear additional terrorist raids

The French government has cancelled all leaves for police, heeding warnings by officials that a new wave of terrorist attacks could begin soon. Police in France have not been so mobilized since huge student and worker demonstrations occurred in 1968.

Robert Pandraud, deputy minister of the interior in charge of security, called upon the French people to be vigilant, as a series of terror attacks this past month has left 10 dead and 162 wounded, due mostly to bomb blasts in crowded commercial districts.

France has already studied methods of retaliation to be used if it learns of countries harboring the terrorist groups, said Prime Minister Jacques Chirac, though no accusations could yet be made against any nation. (The New York Times)

## Nation

### Sanction veto overridden

The Senate voted late yesterday to override President Reagan's veto of South African sanctions by a vote of 78-21. In a statement released shortly after the Senate vote, Reagan said, "Today's Senate vote should not be viewed as the final chapter in America's effort, along with our allies, to address the plight of the people of South Africa." But Reagan argued that the punitive sanctions, "are not the best course of action." The actions being taken will only hurt the people they are trying to help, South Africa's black majority, Reagan claimed. The president appealed to South Africa for "orderly change and peaceful reform." (AP)

### Botha threat enrages Senators

Four US senators were outraged when they reviewed warning telephone calls before the vote from South African Foreign Minister R. F. Botha warning that South Africa would halt imports of American grain if the Senate overrode the veto. Botha said he was not threatening the senators, but Senate Foreign Relations Committee Chairman Richard Lugar (R-IN) accused Botha of "bribery and intimidation."

Botha said that a South African ban of US grain would be a logical result of the proposed sanctions. He said he was asked to tell some Senators what would occur if they overrode the president's veto. He declined to say who asked him to make the calls. Speaking in a national radio interview Botha said that farmers in his country have been putting pressure on the government to ban US grain and the proposed sanctions would force the government to yield to those pressures.

South Africa bought a quarter of a million tons of US wheat in the 12 months ending in June. This amounts to about one one-hundredth of the total US wheat exports in that period. South Africa also purchased about ten-thousand tons of corn out of a total US export total of about 31 million tons. (AP)

### Zaccaro indicted

John A. Zaccaro was indicted Wednesday by a grand jury investigating allegations of bribery in the awarding of cable television franchises in Queens, New York. Prosecutors would not give the details of the charges, which were submitted to the State Supreme Court in Queens in a sealed indictment.

This is the second time in two years that a grand jury has indicted Mr. Zaccaro, whose wife, Geraldine A. Ferraro, was the Democratic vice presidential candidate in 1984. (The New York Times)

### People Express purchase okayed

The Justice Department has given the okay to Texas Air's proposed acquisition of People Express airline. The department said the purchase is not likely to substantially lessen competition. If Texas Air can complete the deal, along with its plans to buy Eastern Airlines, it would become the nation's largest airline. (AP)

### Afganistan will be discussed at summit

Soviet Foreign Minister Eduard Shevardnadze announced that the Soviet Union is ready to discuss the Soviet's military presence in Afghanistan at the upcoming meeting in Iceland between President Reagan and Premier Gorbachev.

Soviet troops have occupied Afghanistan since 1979. According to Shevardnadze the Soviets "more than anyone else" are interested in solving the problem. There are currently approximately 115,000 Soviet soldiers in Afghanistan helping the national army fight a widespread Moslem and Anti-Marxist insurgency.

Of the other four topics on the agenda for the mini-summit next week, the most progress is expected in arms control and superpower relations. Reagan Administration officials cautioned, however, on expecting arms breakthroughs on short notice. The other topics are human rights and Third World conflicts. (AP)

### Gandhi survives assassination attempt

While exiting from a ceremony to celebrate the 117th anniversary of Mohandas K. Gandhi's birth, Prime Minister Rajiv Gandhi and President Zail Singh had a brush with gunfire. Neither was hurt in the incident, although two were injured.

Officials say that the young gunman fired several shots from a homemade pistol, but they could not say whether he was actually firing at the prime minister or the president. Later in the day Indian officials said the incident could not be attributed to any terrorist organizations.

The gunman was hiding in a clump of vines when he fired the shots. A retired judge who was hit that had he not been standing next to Gandhi the prime minister "would have been hit by the pellets." (AP)

### Shamir will seek direct talks

Israeli Foreign Minister Yitzhak Shamir will swap jobs with Premier Shimon Peres in two weeks. Shamir said he will start a series of new diplomatic initiatives in the Middle East: Shamir desires direct talks with Jordan, seeing it as the only way to peace. (AP)

### All-terrain vehicles deemed unsafe

Government safety experts are threatening to get tough with the makers of three-wheeled all-terrain vehicles. They say manufacturers should voluntarily stop selling the motorized tricycles for use by children or face a possible federal ban. The vehicles have been implicated in more than 500 deaths since 1982. (AP)

### New transistor developed

The University of Illinois has developed a new transistor which will revolutionize the processes of information transfer. This new transistor can receive information twice as fast as the present transistors. The new transistor should allow more information to be transmitted from satellites in such a way that an enemy could not possibly intercept military or other communications. (AP)

## Sports

### Clemens slightly injured

The Red Sox's star pitcher Roger Clemens, a prime candidate for the American League Cy Young Award, was struck on his right elbow Wednesday night in the second inning of the Red Sox game against the Baltimore Orioles. He was removed from the game immediately and rushed to a nearby hospital for X-rays, which were negative. Clemens was diagnosed as having a bruised elbow and his status will be updated on a day-to-day basis.

Clemens is scheduled to start the American League Playoff Series with the California Angels next week. Clemens said he was "all right" and that he just "threw a fastball that came back at him too quickly."

Clemens has been a major factor in the Red Sox' American League Eastern Division winning effort. His 24-4 record, 2.46 earned run average, and 238 strikeouts currently lead the league. His 24 wins account for nearly one-quarter of Boston's victories this year. (AP)

### Packers sign Fusina

The agent for former USFL quarterback Chuck Fusina said his client has reached an agreement with the Green Bay Packers. Agent Jeff Briscoe's announcement comes one day after former Heisman Trophy winner and Boston College quarterback Doug Flutie had a tryout with the quarterback-hungry Packers. Briscoe said Fusina, a former standout at Penn State, agreed to a one-year contract Wednesday.

Fusina led the Philadelphia/Baltimore Stars to the USFL championship, but this year's season was cancelled.

Flutie said he was eager to play for an NFL team. He is under a personal services contract with USFL New Jersey Generals owner Donald Trump, but is said to be working out an agreement that would allow him to play in the NFL this year. (AP)

## Local

### Musicians prepare for T tour

David Moore and his Musical Saw performed at the Central Square MBTA stop as part of the T's plan to ease rider inconvenience during ongoing construction. Stations on both the red and orange line are currently being expanded and refurbished. Twenty-one artists will perform throughout the summer, some above ground and some inside stations. (The Boston Globe)

### EPA plans Holbrook cleanup

The Environmental Protection Agency has announced what will be the most expensive cleanup of a New England toxic waste site. But Congress must reauthorize the federal Superfund bill before \$44 million can be spent on incinerating chemical-poisoned land from the old Baird and McGuire site in Holbrook. The plan was unveiled Wednesday by EPA administrator Michael Deland. (AP)

### Worms infest water

Small worms were flushed Wednesday from the water system at Lakes Region General Hospital in Laconia, New Hampshire. City residents report similar infestations in home water supplies.

A state health official said worm sightings outside the hospital suggest the city's water system may be antiquated.

A hospital spokesman said the worms, larva of the two-winged small waterfly, were found at the hospital last Friday. After additional worm sightings the hospital began to use bottled water. The worms are said to be harmless, but the hospital will continue to use bottled water until the system is clean.

Authorities said it was unlikely the worms would appear in tap water because of screens on faucets. The worms appear most often in toilet storage tanks or toilet bowls. (AP)

### Reid conviction overturned

The conviction of 28 year old David Reid for the raping of a four year old boy was overturned yesterday in the State Appeals Court. The resident of Pittsfield will be entitled to a new trial because the jury was allowed to hear testimony concerning some of his prior assault convictions. Reid, who was sentenced to eight to ten years, will probably remain in jail pending a new trial, according to Assistant District Attorney Francis X. Spina. (AP)

### Crack arrests at all-time high

The number of crack arrests in Massachusetts reached an all-time high last month. Figures released by the Department of Public Health showed that police made 32 arrests involving crack in the month of September. Previous highs of 25 were established in June and July.

Although the amount of arrests has increased officials say that the drug is spreading much slower than first feared. They account this to the large scale publicity campaigns to make the public aware of the dangers of crack. Crack is a highly potent and addictive form of cocaine which is smoked instead of being snorted. Authorities believe the slower spread is more because of lack of demand not supply.

The figures for higher arrests can be deceiving because more than 80 percent of the arrests made in Massachusetts have involved less than five grams of crack. The charge for anything less than 28 grams is simple possession of illegal drugs. Any amount over 28 grams is considered trafficking in illegal substances. (AP)

## Weather

### Boston default weather

Hurricane Paine died in Chihuahua, Mexico, yesterday. Its remnants will move northeastward, cause flooding in Oklahoma, and invigorate the severe weather along a front stretching from Maryland to Texas. As the front moves northward, New England will receive moderate amounts of rain throughout the weekend, with thunderstorms possible before clearing late Sunday.

**Friday night:** Winds becoming southeasterly. Increasing clouds. Rain and fog likely by morning. Low 60-65.

**Saturday:** Rain turning to showers and ending. Winds becoming northerly. Partial clearing with temperatures 70° in morning falling to 60-65° at night.

**Sunday:** More rain possible. Temperatures 65-75°.  
**Monday:** Mostly clear, with northwest breezes. High 65°.

Forecast by John W. Nielsen

Compiled by Andrew L. Fish  
Michael Gojer  
Philip J. Nesser

# opinion

Column/Thomas T. Huang

## Autumn is for pragmatists

When I think of autumn, I think of racing down the hills of Arlington, MA, with my friend Alphonse. Pedalling furiously through the black-tarred streets, we thought we could squeeze the last drops of light from the day, soak it up in our sweat and let it cling to our clothes.

By 5 pm, we could only see a few feet in front of us. We had to rely more on memory than sight to navigate around the potholes and gutters which lay like traps before us. Soon enough, cars with glaring headlights would start to honk. To make matters worse, we never knew when Mrs. Conti's german shepherd would take advantage of the dark and pounce out from behind a freshly fertilized bush and tear us to shreds. We were only in fourth grade, and we were too young to die.

So it was with some trepidation that we decided one cold night to bike to the house of a girl we hardly knew. Her name was Suzanne, and she had single-handedly shattered any misconceptions we might have held that little boys were supposed to dislike little girls. Instead, with her long, dark hair and quick smile, she had melted our hearts like hot fudge poured slowly onto vanilla ice cream.

The night sky was clear, and the moon lit our way to her house. We dropped our bicycles on the lawn and crept to a bed of flowers beneath her bedroom window. The air chilled our sweat. I would have backed out had Alphonse not been so dead-set on this.

He had been far more active than I in courting her. He had showered her with candy and told

her jokes he had picked up from Bazooka Joe wrappers. The problem was that the punchlines stank. On top of that, Mortimer Schkansky had stood behind him making noise with his hands and armpits, punctuating each joke like a drummer's rimshot.

Alphonse wasn't afraid to go after what he wanted. He was a paper boy and had bought his bicycle with the money he had earned. He asked questions in class without hesitation. He let the girls whom he liked know that he liked them.

His drive wasn't surprising, as he had been raised by his grandmother, a large woman who often told us stories about the South in the 1950s, how she had to sit in the back of the bus, how she and her brothers and sisters had to fight for even a piece of dignity.

(Please turn to page 6)



Column/Scott Saleska

## The facts support divestment

I think that MIT should divest all its holdings in companies doing business in South Africa. But I didn't always think that way. I had to think about it for awhile — and find out the facts — before it became clear to me that MIT really needs to divest.

I expect that most of you, being the skeptical but relatively intelligent types that you probably are, feel similar. So you may be a little uncertain about whether you should attend today's rally for divestment, which is being held at noon on the steps of 77 Mass. Ave. I'd like to take this opportunity to explain some of the reasons why I'm going — maybe I'll convince you too.

What follows is a recapitulation of some anti-divestment arguments, and why I no longer find them persuasive:

1) *Divestment will only have a negative impact, because corporations that pull out of South Africa will lose the ability to influence the government in a positive way. Therefore, those with an interest in fighting apartheid will invest in corporations which have signed the Sullivan Principles, because they will be instruments of positive change.*

To answer this charge, one merely needs to ask: What has been the influence of foreign investments so far? Have they been helpful or harmful to the victims of apartheid?

In the wake of the Sharpeville massacre of 1960, and then again after the 1976 Soweto uprising, the flight of foreign capital from South Africa posed a serious threat to the apartheid regime. The response of American banks was more loans to help shore up

the racist government. In those instances, MIT — through its investments in corporations like Citibank and Bank America — supported apartheid and helped to crush its victims.

There was much outcry in response to such moves, and in 1978 MIT, with many other institutions, accepted the Sullivan Principles as a guide for future investments. The Sullivan Principles were first proposed as a guide to investments by Rev. Leon Sullivan, a member of the board of directors of General Motors. They call for companies to implement reforms in their own workplace, such as desegregation, fair employment practices, etc.

Granted, the Sullivan Principles have perhaps helped to improve some working conditions for the less-than-one percent of the black population employed by the American companies that abide by them. But this is irrelevant to the larger problem of poverty and racism in South Africa. In the "homelands" — where foreign corporations have no influence — over 80 percent of the people live below the minimum subsistence level. The only way this problem can be solved is by attacking the roots: the system of apartheid itself, and the racist government which enforces it.

The plain fact is that, whatever their intentions, corporations in South Africa have simply not been a lever for any real change. If anything, in the eight years since the Sullivan Principles have been adopted, things have only gotten worse for the South African blacks. It seems clear that the Sullivan Principles have done

nothing but provide an empty argument for corporations who wish to retain their profitable investments.

2) *By divesting, we will only be hurting those who we want most to help, because it will be the blacks themselves who will suffer if corporations that employ them are forced to leave.*

If it is true — as has often been claimed by presidents ranging from Paul E. Gray '54 to Ronald W. Reagan — that the oppressed will be the ones most hurt by divestment, then we must wonder why it has been those very oppressed who have been among the most active in calling for it. The African National Congress (the 70-year-old, now outlawed black liberation organization) has stated,

"It is our firmly considered view that liberal opinion — however well intended it may appear — that opposes our campaign for [corporate] withdrawal is, in the long run, only delaying the change that is essential if South Africa is to be rid of apartheid and slave labor. It is not enough to grant higher wages here, better conditions there, for this leaves the apartheid system intact. In fact, it props it up longer — the very source of our misery and degradation."

Winnie Mandela (wife of Nelson Mandela, the famed anti-apartheid activist, imprisoned for over 20 years), John Gaetsewe (general secretary of the outlawed South African Congress of Trade Unions), and Bishop Desmond Tutu are among the many others

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# TheTech

Volume 106, Number 41 Friday, October 3, 1986

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# opinion

Guest Column/David G. Wilson

## Parking fees must increase

If you wish to lead a quiet life in harmony with your fellows, never discuss politics, religion, or parking. Of the three topics, that most likely to result in bloodshed is parking. The reason is that MIT parking is an extremely valuable gift handed out to a favored few. What is wrong can be illustrated by an anecdote about a completely different area: nuclear power.

At the height of the energy shortage a few years ago, and in the middle of a very cold January, someone phoned me to ask to go to the Quad-Cities nuclear power plant in Illinois.

I should get there, I was told, by flying to Moline, renting a car, and driving north by the frozen Mississippi for 30 miles or so. "You'll see the plant — there is a huge column of vapor coming out of it. The environmentalists wouldn't let us use the river to cool the condensers, so we had to build a big cooling pond. It actually boils in summer. Right now it's just steaming hot."

It was just as he said. As I drove up I heard on the radio how factories all over the mid-West were being shut down because of the shortage of natural gas, to give priority to homeowners.

I parked the car near the cooling pond, and made a dash through the frigid air to the visitors' lobby. It was gloriously over-heated. "Thank goodness you're using the waste heat to keep the buildings warm," I said to my host. There was an awkward silence. "We're not using the waste heat. We're using natural gas."

The situation was appalling, but it was all perfectly logical. The price of natural gas was so low that it was almost free — held there by a law of Congress. To have used the waste heat to heat the buildings would have cost the investors and taxpayers a great deal more than the simple use of natural gas.

The devil, if we have to find one, was the artificially low price to which natural gas was held. The low price promoted widespread and massive waste, and made exploration for new sources uneconomic.

The same is true at MIT with regard to parking, and the same results can be seen. Parking is virtually free — an administrative fee of \$7 per year was recently imposed — and the demand far outstrips supply, leading to general unhappiness.

The Institute provides 3500 places to certain lucky students, staff, and faculty members. The cost of providing a parking place is, however, around \$2000 a year. About half of these costs are met by overhead on research accounts, and half on general Institute funds. The costs of adding a vehicle to already-overloaded streets, involving delays to others, pollution, accidents, noise, and blight, cannot be quantified but will be at least of the same order.

Whenever demand exceeds supply in a nonmarket system, the authorities have two distinct choices (at the ends of a spectrum of possible mixes): rationing and pricing. Rationing is justifiable when the cost consequences are relatively small.

For instance, *Tech Talk* wisely rations free personal ads per issue.

But the cost consequences to MIT of rationing parking and providing it virtually free are enormous. The costs to people who would like parking but are not allowed to use it, or are allocated "pooled" space but arrive when the spaces are all taken, are also high.

The only justifiable alternative is pricing. The Columbia University economist William Vickrey has proposed a simple rule to determine the appropriate price for parking. The price should be that at which there will always be a percentage — say five percent — of places free.

This rule should apply to private and on-street parking, such as Memorial Drive. If this rule were followed, people who wish to park at MIT and who were willing to pay for the privilege would be assured that there would always be places for them.

All manner of other good consequences would flow from such a pricing policy. Overhead charges on research and other accounts would be reduced. Capricious and wasteful use of parking places would decrease. Traffic would flow more smoothly in the local streets. Buses would move faster and have more customers. Some people who were teetering between walking and driving could get a little fitter.

The Institute Committee on Transportation and Parking has been considering alternatives (including a token parking fee, predicted to have no effect on demand) in order to reduce the unhappiness. There is only one logical way to go. May the members of the committee choose wisely and become heroes.

(David G. Wilson is a professor of mechanical engineering.)  
(Please turn to page 13)

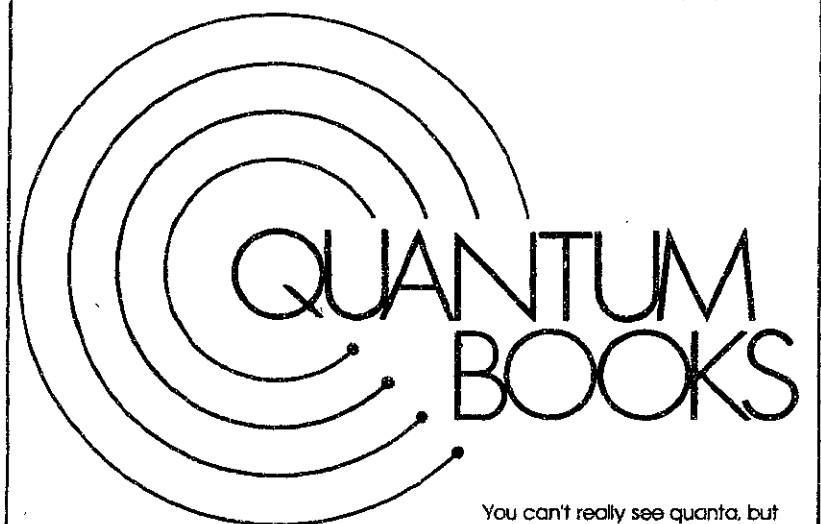
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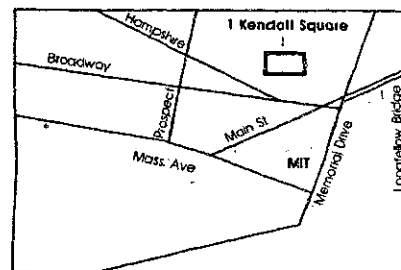
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## feedback

### Coalition is tired of waiting for divestment

(Editor's note: The Tech received a copy of the following letter, addressed to President Paul E. Gray '54.)  
Dear President Gray:

We write to you having just recently been informed that the forum on MIT's South Africa-related investments — which we were told was being planned for this fall — has been cancelled.

Furthermore, we have learned from Undergraduate Association President Bryan R. Moser '87 that the cancellation was due to a failure on the part of the MIT administration — especially Executive Vice President Constantine B. Simonides and the Corporation Joint Advisory Committee — to follow through with its agreements on time, thereby making it impossible for the MIT Colloquium Committee to organize the event properly.

The Colloquium Committee has asked us whether we would prefer this event to be re-scheduled during the Independent Activities Period or during the spring term. Dr. Gray, does it make a difference? Will it make a difference whether it even happens at all? We ask because we are tired of these endless discussions that go nowhere. Next year is too late; \$150 million invested in apartheid is \$150 million too much: divest now.

Since our founding a year and a half ago, this demand for immediate and complete divestment has been constant and clear. During this time, that demand has been joined by pro-divestment resolutions passed by the MIT faculty, by the graduate student body, and by the undergraduate student body.



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# opinion

## Autumn is for pragmatists

(Continued from page 4)

Her life had been pockmarked with large defeats, but smoothed by small, precious victories.

I, on the other hand, resembled a slab of cold fish. When Suzanne was busy with something or another, I would stare at her like a frozen trout stares at customers from the grocer's freezer, helpless, immobile. But I envied the trout, because it was dead and didn't have any feelings. It didn't dream.

Once, when she looked up at me, I shifted my focus and pretended I was studying the blackboard behind her. I stood up, feigning interest in a piece of long division written in chalk, and started to erase it.

Unfortunately, the next thing I knew, Mrs. Fischer was screaming that she had wanted to keep that equation for the next class. I was sentenced to stay after school to write, "I will not erase the blackboard without the teacher's permission," 100 times on the blackboard. I was afraid that I would forget and start to erase the blackboard once I had finished, and that I would be punished all over again, falling into some kind of infinite loop, a hell depicted in *The Twilight Zone* or *Dante's Inferno*. I couldn't remember which.

But, luckily, the teacher made Kenny Masterson (who had been caught writing "F--- the draft" on the blackboard without her permission) erase all of my sentences with his hands tied behind his back.

This incident came to mind as Alphonse and I tiptoed around Suzanne's house. "Let's go home," I said. "She won't appreciate this, and we'll just make fools of ourselves." I tugged at Alphonse's jacket, but he brushed me away and stared out at the window. I looked for some

pebbles to toss against the windowpane, but there weren't any in sight. "What are we going to do, throw flowers at the window and hope that she has good hearing?" I asked.

"No, we are just going to give her the flowers," Alphonse replied. "Do you have any pennies? We could toss pennies." I searched through my pockets, but all I found were quarters. It struck me that romantic pursuits could be very expensive.

We had spent about \$2.50 trying to get Suzanne's attention when, suddenly, someone opened the window. It wasn't Suzanne, but someone who had already reached puberty and travelled beyond it — Suzanne's older sister.

We had rudely interrupted some teenagers' tryst, for out of the white-wood house ran Vinnie Margolin, Arlington High's state track champion, mad as all hell. He was wearing polka-dotted underwear. It was straight out of some nightmarish ABC After-school Special.

I jumped behind a bush, because I knew I could never outrun him. The only reason I had not finished last in the 600-yard dash the year before was because I was able to overtake Mrs. Gumpert, our 67-year-old gym instructor, when one of her high heels broke in the final turn. Alphonse, trembling, stood his ground and said, "We just came to visit Suzanne. She's our friend."

"Suzanne ain't here," Vinnie said, and abruptly grabbed Alphonse and slammed him into the ground. Then he grinned. "Hey, boy, you'd better watch where you walk around here." I cried out, but I was paralyzed. It's a dream, just a dream.

But dream became reality, as Vinnie punched Alphonse in the gut and, after what seemed like

eternity, left him to lie in the grass. Silence. Then sounds of laughter and a door being shut.

In the moments which followed, I tried to help him up, told him we should never have come here, but he shoved me away. "You'll never learn, will you?" he muttered. Then he took his bicycle and rode off.

Over the years, I have often thought of looking for Alphonse, to tell him I understand that now. *I am trying, finally trying. I was a coward, but now I am learning to live.* As early as the fourth grade, I had fallen into a lazy pragmatism. I played it safe. I didn't want to stir up any trouble or embarrass myself by failing, and I often backed off or withdrew inside myself, rather than fight for what I wanted.

In the spring and summer, Alphonse and I had to duck our heads as we passed under low branches dense with green leaves. Inchworms hanging from their silk threads would brush our faces, but as the weather grew colder, they soon disappeared. The trees began to participate in some fall fashion show, revealing their gaudy coats of red, yellow, and orange. As we rushed by, those colors would blend and blur into streaks, just visible out of the corners of our eyes.

Later, the leaves would curl up in their own kind of rigor mortis and fall to the ground, to be raked up in huge piles. Sometimes we would fly through these piles, smelling the sweet, tea-like odor, listening to the crunch of our tires upon the leaves and the shouts of our neighbors which would inevitably follow.

It's easy to be practical, to believe that our dreams will never come true, especially if you think the odds are against you. And your dreams won't come true, if you refuse to chase them. When the big plans of summer fall through, and the cold autumn air belies the sun, you think it's time to wrap your coat around you, pick up the pieces, stick them in your pockets, and wait for another day.

In the back of our minds, then, we knew that the smell of outdoor barbecues and hotdogs and hamburgers would soon turn to the smell of leaves burning in garbage cans, the sound of the wind in the trees to that of the crackling, all-consuming fire.

Autumn is for the pragmatist.

## feedback

### Article on UROP wages contained inaccuracies

To the Editor:

If it only were true! A recent article in *The Tech* ["UROP wages will go up to \$5.50 an hour," Sept. 30] noted that the Undergraduate Research Opportunities Program "obtained \$300,000 more to raise student salaries."

It is certainly true that we raised the stipends of student researchers requesting UROP financial support from \$700 to \$750 a semester (and from \$5.25 to \$5.50 an hour), but, as we figured it, at the same participation level it could cost us about \$40,000 for the year. The figure of \$300,000 should have referred to our entire student UROP budget.

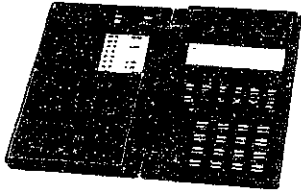
And for the sake of clarity, it

should be pointed out that last year, faculty stipends paid to students from sponsored research reached \$3 million.

Norma McGavern  
Associate Director, UROP

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# opinion

## The facts are clear: MIT needs to divest now

(Continued from page 4)  
 who have supported divestment. And polls conducted last spring show that 77 percent of the South African black population supports the withdrawal of foreign investment from their country. Surely, the people of South Africa are a better judge of what is in their own best interest than we are. If we truly want to support their struggle, should it not be their demands that we heed?

3) In practice, divestment will have no real impact, since American corporations represent only one to three percent of the South African gross national product.

This statement is misleading, for at least three reasons.

First, the sectors of the South African economy under foreign control are economically vital ones; they represent a degree of importance that is out of proportion to their fraction of the GNP. About 70 percent of the South African computer market is controlled by American companies — 45 percent of the oil market and 33 percent of the automobile market. The United States supplies up to one-third of South Africa's international credit. Therefore, even under the narrow view that divestment is nothing more than the removal of capital, it would clearly have a significant impact.

Second, this view fails to account for the fact that the contributions of corporations to the South African government are more than merely economic. Many corporations also provide important services to the apartheid regime. For example, International Business Machines (IBM) — a corporation which follows the Sullivan Principles — conducts business with the South African government. Their computers help control the flow of migratory labor and service the South African police force — the same police force under which so many "mysteriously" die during interrogation, the same police force that attacks peaceful protesters and shoots children in the street. MIT has over \$27 million invested in IBM alone — more than in any other single corporation. Is this what people mean when they say that MIT's investments are "a positive force for change in South Africa"?

Third, this argument leaves out the view of the South African government itself. If divestment would have such a negligible effect, why does the South African government fear it so? Why have they made it an act of treason to merely speak in favor of divestment? The conclusion seems inescapable that they fear it because

their racist rule would suffer from it.

4) Gray has said that MIT students "ought to be concerned about MIT's profits, because they pay half of [students'] educational costs."

This argument angers me perhaps more than any other. It's not that I'm against fiscal responsibility, but that this argument presumes that other people don't matter. It is an argument based on a calculus that completely neglects the human factor. It neglects the human costs and it neglects the fact that humans are moral agents who can make moral decisions apart from a purely momentary cost-benefit analysis. They may rarely do so, but the fact is they can.

Yes, of course we should be concerned about MIT's profits and our tuition — not only how large they are, but at what overall cost they are come by. It is for precisely this reason that people are expressing their concern. It may be that divestment would be harmful to MIT's profits — but that is irrelevant to the question at hand. Apartheid itself would

not exist if it were not profitable to somebody — but its profitability can hardly justify it.

5) Even if American corporations decide to get out of South Africa, it is not a matter of their economic activity ceasing. It is a matter of those corporations turning their activity over to someone else — someone else who will continue right on doing the same thing.

We cannot accept the claim that if we don't do it, somebody else will. It would more accurately be said: somebody else may. It is a belief fundamental to the divestment movement that if enough people speak their consciences and exert enough pressure, people's minds will be changed and decisions will be made — even on corporate boards.

The truth of this belief can be seen in the anti-apartheid movement that is sweeping this country. From Berkeley to Columbia, from the steps of the South African embassy in Washington to the doors of the universities in Boston, people of conscience are speaking out and being heard.

Other universities are divesting, and Congress has (finally!) found the guts to stand up to Reagan and impose a minimal level of sanctions against South Africa. MIT can no longer pretend that its own divestment would be an isolated and ineffective act.

One day apartheid in South Africa will fall. On that day we will all look back on MIT's role. Will we be proud that our coura-

geous and creative actions helped to hasten that day? Or will we be ashamed of our hesitation in challenging the last outpost of constitutionally sanctioned racism on the face of the earth?

The decision is ours to make.

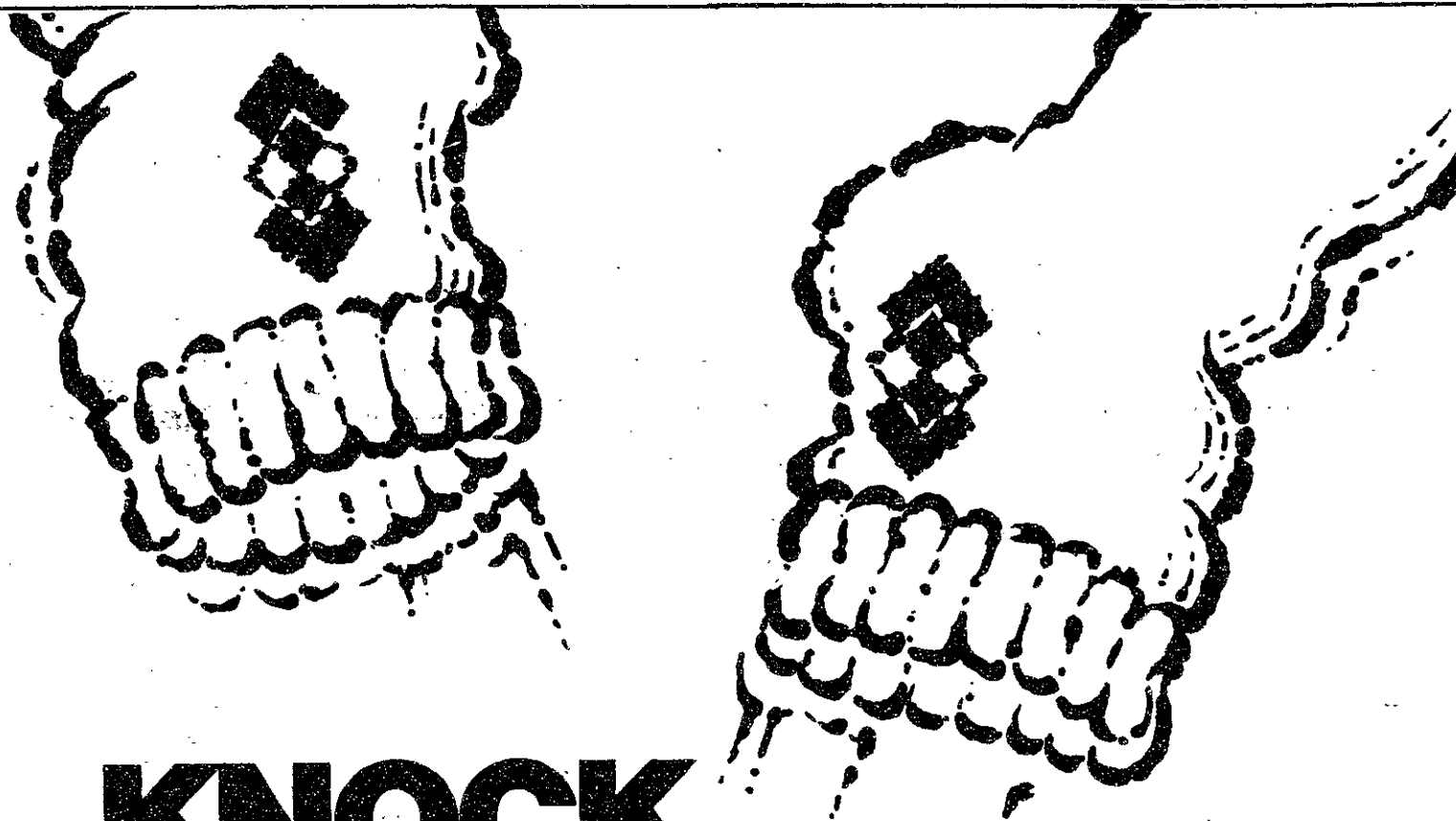
I urge you to speak out and let the MIT Corporation hear your voice today. Join the protest against MIT's apartheid investments.

### WEST PLAZA SCHEDULING

Applications are now being accepted for the IAP/Spring Semester for the Student Center, the Chapel, and the West Plaza Grounds. While slots do remain for spring in Kresge Auditorium, at this time, there will be no scheduling in the Kresge Building during IAP due to renovation plans. Applications may be obtained in the Campus Activities Office (W20-345). Below is the chart for deadlines and approval dates.

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Jan. 1-May 31, 1987	Oct. 17, 1986	Nov. 3, 1986

Applications will be accepted on a rolling basis after Nov. 3, 1986.



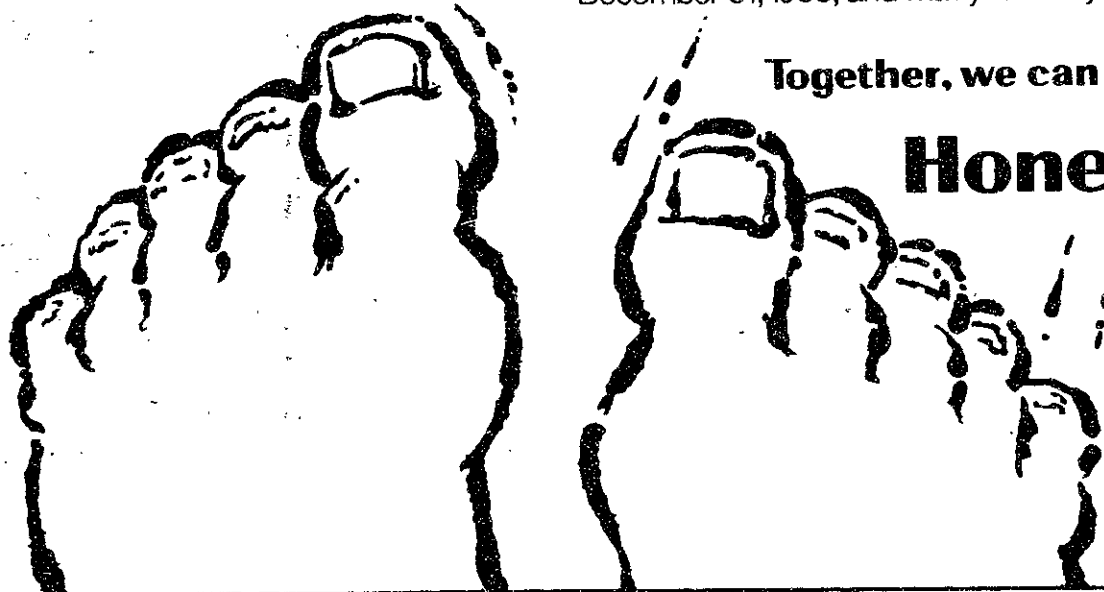
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## ARTS

**Boy Who Could Fly** has magic without feeling**THE BOY WHO COULD FLY**

Written and directed by Nick Castle.  
Starring Lucy Deakins, Jay Underwood,  
Bonnie Bedelia, and Fred Savage.  
At the Cheri and Somerville Cinemas.

By PETER DUNN

**A**LMOST EVERYONE has at one point dreamed of flying. Whether tethered like a high flying kite, zooming like a powerful jet airplane, or leaping tall buildings in a single bound, the dream may vary but the feeling of contented weightlessness is incorporated into all versions. Whatever variation one prefers, the meaning of the dream is usually the same: an ability to soar above and escape from life's earthly problems. So what happens if the dream becomes reality, if a boy can actually fly? The characters in "The Boy Who Could

Fly" all have problems above which they wish they could soar. Milly (Lucy Deakins) is a pretty 14-year-old high schooler who must adjust to moving to a new town after the recent death of her father. She must play surrogate mother, cooking and cleaning, while her real mother, Charlene (Bonnie Bedelia), earns a living. Returning to the workplace after a long period of absence is no easy task for Charlene, who must now cope with the new computer age. Milly's kid brother, Louis (Fred Savage), has problems dealing with his father's death, coping with a new school, and facing up to the street bully. He manages only by submerging himself into a fantasized GI Joe military world.

Enter the boy next door, Eric (Jay Underwood), whose parents died in an airplane crash when he was four years old. (Please turn to page 11)

Milly (Lucy Deakins) in her window, from *The Boy Who Could Fly*.**Sexual Perversity** in three acts in Kresge**DRAMASHOP: one act plays**

Kresge Little Theatre  
Friday, Oct. 3 and Saturday, Oct. 4 at 8 pm.

By JULIAN WEST

**A**N EVENING OF SCENES based on loving and sexual relationships builds to a powerful climax with an extended selection from David Mamet's hit *Sexual Perversity in Chicago*. Dramashop has again put together an excellent show, which the opening night audience clearly found as amusing as it was relevant.

The first two scenes, although they developed as preludes to the main event, were entertaining in their own right. The first, featuring Per-Funnar Ostby '89 as Trevor, details the difficulties of two lesbian lovers who wish to keep their relationship secret from their parents. They invent two fictional lovers, both called Trevor Hudson, to fill the apparent gap in their "sexual fulfillment." Confusion sets in when they pick up an out-of-work actor in Soho and bring him back to their Chelsea flat to meet Sarah's parents as "Trevor," only to have Jane's parents drop by.

The situation makes for a fast-paced comedy, and the company handled the

very difficult timing well. Otherwise a little more rehearsal time would have been welcomed. Carol Van Zoeren G and Patricia Zeitler '88 fill the central roles of Sarah and Jane admirably, but their characters tend to resemble one another. "Trevor" does quite well playing an actor acting, but seems a little awkward as an actor out of character. The supporting cast are more caricatures than anything else, although the contrast between Jane's Tory parents and Sarah's Liberal ones is well drawn.

Kim Fusaris '90 and Steven Villarreal '90 did adopt accents for their scene, *This Property is Condemned* by Tennessee Williams, and this was also the right decision. The scene would have been difficult to interpret outside its Mississippi context. Fusaris plays Willie, a young woman who has lost her family one by one and now lives in a condemned property. She is alone except for a battered doll which, in its torn finery, is an image of the woman herself.

Willie is adept at walking along train tracks, which she dreams are leading her somewhere, and good at staring out at the sky "white as a sheet of paper" and drawing imaginary pictures on its blank pages. Fusaris is also able to demonstrate a clear singing voice to good effect. Villarreal has little to contribute to the play beyond some short lines, a willing ear and a lot of

compassion, but these he supplies in good measure.

*Sexual Perversity in Chicago* was the clear standout of the bunch. It was easy to wish that they could have performed the entire play for us, but it has the fatal drawback of employing only four actors. Dramashop found four first-rate ones, Deborah Kuchnir '89, Christopher Coon '90, Kristi Trostel '89 and Henry Nowak

'90. All four were comfortable and natural in their roles — they handled lightning-quick scene changes well, and Kuchnir and Coon, as the lovers Debbie and Danny, managed some character changes also.

The actors do an amazing job of executing the pillow talk with the freshness and honesty of lovers. But as their relationship deepens, the accompanying complications and awkwardness sets in. Kuchnir and Coon, in a relatively short performance, convincingly commit the "sexual perversity" of falling in love.

The play, which consists of a succession of short scenes, was imaginatively staged by director Gregory Greeley '86 by using half-a-dozen different acting areas on the same set, designed by Russell Boten '89. Scene changes between apartments, offices, bedrooms, bars, and beaches were effected by a more than capable lighting crew. Indeed, all three sets were more elaborate than Dramashop usually aspires to for one-acts, and all three were well executed.

Nowak makes the most of the funniest lines in the play; he somehow manages to drum up sympathy for a boorish, misogynist character whose opinion of the equal rights amendment is "we've got baby seals dying in Alaska, and we're writing amendments for broads?"

Nowak's character, Bernie, exists as a jaded opposite for Danny. Similarly, Trostel's portrayal of Debbie's cynical roommate Joan was convincing enough to make us more thankful for Debbie's innocence and integrity.

The play was worth waiting for, and says a lot about contemporary relationships. Dramashop's evening is certainly worth an evening of your time.

Steven Villarreal '90 and Kim Fusaris '90 in *This Property is Condemned*.**Sky Art soars over MIT; sun to be blocked today****SKY ART**

1986 Sky Art Conference, Sept. 29 through Oct. 3, at MIT.

By ALLISON DRUIN

**I**T IS A BIRD. No, it is a plane. No, I think they call it "sky art." This week any unidentified flying objects, light, or balloons may well be a piece of artwork from the Center for Advanced Visual Studies' *Sky Art Conference '86*. The conference has been hosting everything from lectures to performance events, all dealing with the subject of "sky art."

How does one define this type of art? It is hard to say, since each sky artist seems to approach the genre from a unique perspective in terms of style, medium or imagery used. What these artists do seem to have in common is their interest in those qualities which make the sky special: light and dark, movement and flight, endlessness and space, to name a few.

This year's conference has been a showcase for such qualities in works which range from firework performance pieces to inflatable sculptures, from balloon technology to light bulb installations. Unfortunately certain works have not been available for first hand experience, due to fire regulations and zoning laws. However, the installations and performance pieces that were on hand more than made up for what could not be shown.

One piece that could be performed was Steve Poleskie's *Tracing of the Basin*. This

"aerial theatre event," otherwise known as a plane skywriting, was an impressive sight from the vantage point of the Kresge Oval. The sky became quite a canvas for Steve Poleskie's creativity.

On the other hand, I do believe it is unfortunate that Pierre-Alain Hubert could not perform his work due to Boston fire regulations. Hubert has set off fireworks in everything from helicopters to beds, making, as he says, "drawings in the sky." He has created curtains of fire, waterfalls of fire, as well as symphonies of fire. His most recent works deal with daylight fireworks, which he says create "man-made clouds." Though only available on slides, his work seemed especially exciting.

Another interesting body of skywork is Vera Simons' "Balloon Technology." By using balloons to enhance skylines, she has developed pieces which do everything from creating "chains of light" to "extend the lines of buildings." Her piece in Edinburgh was especially interesting in that it had less to do with flight and more with a stationary building, which is an unusual use of the balloon medium.

These are only a few of the artists represented at this year's *Sky Art Conference*. If you have ever been intrigued by the flight of artistic imaginations, you should find your way to the Center for Advanced Visual Studies. It will not only open up a whole new world associated with the sky, but it will also challenge you to rethink what you call art.

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## ARTS

## An interview with Gyorgy Kepes

By MICHIEL BOS

This week Institute Professor Emeritus Gyorgy Kepes celebrates his 80th birthday. The leading figure in the arts at MIT for several decades, Kepes was founder and first director of the Center for Advanced Visual Studies.

To mark the occasion, a retrospective exhibition of Kepes' paintings is on display in the Compton Gallery. The exhibition, organized by the MIT Museum, is open 9-5 weekdays and 10-4 Saturdays, through Oct. 25.

Born and educated in Hungary, Kepes worked in various places in Europe during the 1920s and '30s. In 1937 he joined his compatriot Laszlo Moholy-Nagy in Chicago to found the New Bauhaus (later the Chicago Institute of Design), intended as a successor to the famous German School of Art, Architecture and Design closed by the Nazis.

In 1945 he came to MIT, to set up a program in visual design in the School of Architecture. He has remained here ever

since, as artist, educator, and writer on art. The establishment of MIT's Center for Advanced Visual Studies as a center for collaboration between artists, scientists and engineers in 1967 was the culmination of his efforts to bring art and science closer to each other.

In an interview for The Tech, Kepes spoke, among other things about the relation between science and art, his development as an artist, and the nature of his painting.

"I have tried to be a matchmaker between art and science. When I came to MIT I felt very strongly there were still many things unfinished in this marriage, or friendship. My own task at MIT was to give seminars where I tried to build with scientists some bridge or link between their own field and mine — painting and filmmaking, and the different idioms of visual art. It was for me a exciting enterprise, and I hope some of the students benefited from it.

I still feel that this is an unfinished business, because many young people and

many old people are still bewildered by the modern idioms of visual art; and also, many artists are completely uninformed, innocent in terms of scientific insights and achievements. To create bridges between two islands of thought is not easy. It is always an uphill fight.

"In my short long life, I had a great need to get acquainted with the world in which I am living. As a young painter I had major questions within myself as to what the world means for all of us. I read books, but I never had any precise scientific training. I grew up in Hungary; I had the gymnasium training, which was Latin, Greek, mostly just a liberal arts education. At the same time the picture of the world changed. The new science created new insights in the complexity of the world, and tried to simplify and image the complexity in a coherent way. I don't claim that I know more now than I knew at the beginning, but I can get still as excited, involved in trying to read the complexity of the world.

Anybody who is trying to grow up creates heroes for himself, and I had my he-

roses both in science and in art. In art, Mondrian is one of my heroes; I was also fortunate that I met him. And Paul Klee. On the surface the two were as far from each other as artists could be: Mondrian tried to create a new language, whereas Klee tried to create a new horizon. But both of them were great people of the twentieth century and I still almost shiver when I remember meeting them. They were not just artists, they were obsessed people, who had an inner target.

When I studied in Hungary, I had some mini-achievements as a painter. But I came to the conclusion that painting is no longer the only language the artist can use. I was seeking for a horizon which would include painting but also other vistas of the world, and I was dreaming of filmmaking. There were some important filmmakers at that time. I had, as many young people, strong leftist sympathies; I believed that there was a new world in the making, and that Soviet Russia was one of the territories where this new world was taking shape. I was lucky to see a few good films made in the Soviet Union and later, in Berlin, I

(Please turn to page 10)

## Silent partners, in a moving love story

## CHILDREN OF A LESSER GOD

Based on the stage play by Mark Medoff.

Directed by Randa Haines.

Starring William Hurt, Marlee Matlin, Piper Laurie, and Philip Bosco.

At USA Cheri and Harvard Square.

By JULIAN WEST

LET'S BE UP FRONT ABOUT IT: this is an excellent film. You have every reason to see it: it is appealing, beautiful, moving, faithful to the play, faithful to life, there are great lines and good sex scenes.

William Hurt is a crashing good actor as well as stunningly attractive. He is talented and devoted to his work, having spent three months learning a new language for this part. He has won an Academy Award, and people will flock to see him in a new movie every fall for years to come.

His costar, Marlee Matlin, is a major new talent and with ethereal good looks. She is as dedicated an actress as I have seen, and I wish I could be the first to say that she may well win an Oscar for this rôle. We may never see her in another film.

Like her character Sarah, Matlin is deaf. It is a fact which places no limits on her acting ability, but does limit her choice of roles rather severely. The question of what hearing impaired people can and cannot do is central to this film.

Above all, however, the film is a love story, about a deep and passionate relationship between two deep and passionate individuals: Sarah, who has rebelled against an unsympathetic, hearing society; and James, who is an apostle of the hearing world at a school for the deaf.

Almost the only criticism I can level at the film is that it is too much about the love between Sarah and James, and that some of the important minor characters from the stage-play have been lost. The part of Lydia, a teenage student who throws herself at James, has been greatly reduced, and Orin, the deaf activist who is almost a revolutionary, is virtually lost. Otherwise, and with the exception of the last scene, the film is remarkably faithful to the play.



Marlee Matlin lost in her own silent world. . .

In other ways, the film rises above the stage presentation. It is easy to speak to a large audience, but harder to sign to them. In the film, we can get closer to the actors, and read their signing more closely. It is a language which is so expressive that it speaks even to the majority of us who are illiterates in signing. No one can express verbally what Matlin can do with her hands. Thus, although we have lost Sarah's translated speeches about the eloquence of her languages, we are more than compensated by a graphic demonstration of her eloquence.

The signing is much more able than an

empty stage to convey the institutional nature of the school which will for many students be their only home. And the beautiful outdoor scenes shot on beaches and ferries, aside from making me want to visit New Brunswick, underscore with silent eloquence the insular nature of the deaf world.

We are quietly reminded of the outside world when Sarah turns to take a stand in front of a magazine-rack, full of missives from outside. In fact, many of the best scenes in the movie are nonvocal: an invitation to dance, a greeting, a parting. And Hurt is nearly as accomplished at this form of communication. At one point, when James spots Sarah at a party, we know without words exactly what has surprised him.

The film begins silently, with quiet music which plays for a long time before the first word is spoken. With deliberate irony, the first sound present in the film is the jarring tone of a school-bell. It is a stark signal of the ugliness of the hearing world, a call for both classes and the film to begin.

James' students are an uninspired bunch of louts who have never had a sympathetic teacher. One of them is using an electric razor in class, because no one is disturbed by the sound. James asks why the students think it is important to learn to speak English and lip-read, and one insolently replies "to pick up hearing girls." To his surprise, James replies "okay, let's work on this." He goes on to teach them to speak and to win their love.

But more than anything else, he wishes to win the love of Sarah, who refuses absolutely to learn to speak. She began as "one of the brightest students" the school ever had, but unable to face the outside world, she stays to mop floors. Sarah is a permanently angry character, storming from her first, sensational entrance. Her transformation at James' hands provides Matlin with an opportunity to display an enormous range of emotions.

Surprisingly enough, this is another film which contains some very good music on the soundtrack. James, believe it or not, teaches his class to sing along with rock music which they cannot hear but can feel. The song itself is quite catchy, and was specially written by Michael Convertino, who also wrote the incidental music for the film. The sight of deaf actors dancing to music they cannot hear is entertaining as well as an amusing take-off on the movement of films toward rock videos. It is also, alas, a showcase of the talents of half-a-dozen very fine actors who will forever have trouble finding work.

Elizabeth Quinn, who was the first to play the part of Sarah in London, drew excellent reviews last year in the part of a mentally injured woman whose handicap impaired her speech. Roles for non-hearing actors are rare, but available. We can only wish Marlee Matlin and her fellow actors the best of luck, and wish to see more of them in the future.



. . .and breaking out of it.

## Kepes talks about his paintings, memories, and dreams

*(Continued from page 9)*

met some of the great filmmakers, for instance Dovzhenko and Pudovkin.

Dovzhenko was the great poet of the beginning of filmmaking. He had inner poetry, and created images in films that I felt were really grand and deep — wonderfully sensitive. He impressed me immensely as a person.

I gave up painting. I wrote to my Hungarian friend Moholy-Nagy, who invited me to Berlin to work with him, and in 1930 I went from Budapest to Berlin. It was a complicated part of history — full of upheavals and soul searching and meanness and greatness. There was the major political change from the so-called Weimar Republic to the Nazi era. It was not the happiest time of the world, and for me — when one tries to see the world as a young person it is always a puzzle, but when the world itself changes fast during this time. . . . I lived there for a couple of years, until I became very sick and had to go back to Hungary.

I was almost a year in bed. I saw history from the bed — which is not the best vantage point, but it helps you to see things which you could not see when you are over-active.

I stayed with my sister, who lived in Transylvania, in Rumania; my family came from this territory. It was an interesting mixture of Hungarians, Germans, and naturally by this time the political

power was Rumania. I had a great liking for the peasants there, because I grew up in the countryside. I was hoping and dreaming to make a film — not an ethnographical film, but a film of the peasants' life, the things which were so beautifully expressed by Dovzhenko.

When I recovered from my sickness, Moholy asked me to come to Berlin again. So I went back to Berlin. But it was the Nazi period, which was not for my taste. And then Moholy went to London, and he asked me to join him. It was an exciting time of my life, of everybody's life. It was just before the second World War. Life was full of question marks, full of trouble, but full of promise, too.

And then Moholy went to Chicago. First [the architect] Gropius was asked to start a new Bauhaus in this country; but just months before the school was to start, he accepted the chairmanship of the architecture school at Harvard and recommended Moholy for the job. Moholy accepted it; came over and asked me to teach a course on light and light design. It was in 1937.

Then I had a few short intermezzos, in Brooklyn College and in Denton, TX, and then I came to MIT.

"When I came to MIT, I started to miss painting. You give up something because you feel it is not quite the right love, and discover that you have still some love affair, a hidden love affair, with this aging

lady that we call art. I never lost my admiration for Mondrian and Klee and other artists, but I assumed that my own commitment was to bring bridges between the expanding visions of the world, science and art. So I had an almost schizophrenic feeling.

At MIT — I think I came to MIT in 1946 — I started to paint again.

My work is a dream world of somebody who lives in the 20th century and is still nostalgic for some aspect of the world which got bypassed in the 20th century. My paintings are almost Romantic paintings. They try to reach the palpable reality of the world around me; most of them are textured images. And if I can understand my own self, it came because the world seems to race away without any tangible, tactile reality, and I needed for my own consumption this quality of texture.

I have a great love for [the German writer] Novalis. He was a novelist trying to bring back the richness of the total — touching the total reality, not the details of the reality. That interested me for many, many years. I tried to feel the hidden richness not at the concrete, pragmatic level, but at the embracing, if you like, Romantic level.

This has been an invariant in transformation. It went through all my work. I was always interested to grasp a key, the sense of the total. So most of my work, if I am correct, is a sometimes hopeful,

sometimes hopeless struggle between the visible and the invisible.

"Klee had a great impact on me. As a young painter, I was influenced by the Russian Constructivists — Malevich, Lisitsky, Rodshenko. I looked down on Klee as an artificial stotterer, who played a child's game. Later, in 1935, I met him in Switzerland, and he impressed me immensely. There was a French aristocrat lady, Madame De Mandrot, who had a castle near Lausanne. She invited every year some artists who were searching for other work. I snuck in to one of these invitations. Gropius was there, (the painter) Max Ernst, Moholy. . . . During this time we visited Klee in Bern.

When I went to see him, he was not my hero. But after, he was, and actually, the experience was a significant key for me to my own self. After some chatting around, one of us who visited him asked him how he thought of himself as a painter. And Klee said: I am not a painter, I am a gardener who has to come every day to water the plants in the garden; what I am doing is research into my own self. It was an important new key to see that a painter is not always making paintings, but midwifing paintings.

I almost dare to say that from this moment on, my painting ways changed. Instead of a Constructivist type of painting, I was exploring the hidden world with the hand of Klee to guide me.

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## ARTS

**Boy Who Could Fly** is a film which does not*(Continued from page 8)*

Since the death of his parents, Eric has become nearly autistic, never speaking a word and only occasionally acknowledging the presence of others. Eric deals with his problems in both the most indirect and most direct manners: he attempts to avoid the reality he finds painful by shutting it out, but also pretends that he can fly, reasoning that if he had been an airplane he might have been able to directly avert the fatal crash that took his parents.

The very day that Milly and her family move into their new house, she glimpses Eric through her bedroom window sitting on his windowsill, arms spread, as if waiting for a gentle breeze to carry him aloft. The attraction is instantaneous. At school Milly tries to help Eric open up, tossing balls with him during gym class, and she continues her attentions at home, keeping an eye on him when he might stray too far out on a ledge. Lo and behold — Eric begins to respond to Milly, mimicking her actions. A kindly high school counselor (Colleen Dewhurst), who worries that Eric will be sent away to an institution, enlists Milly to be his guardian and to continue to help him to overcome his autism. This works well for the main characters since it allows their love affair to blossom, but also presents another problem for Milly, who is ostracized by her classmates for hanging out with Eric.

"The Boy Who Could Fly" chronicles

the budding romance between Milly and Eric, but also attempts to expose how we try to deal with life's traumas each in our own way. This is brought to a head when Milly falls from a bridge while plucking a rose, only to later wake up in the hospital with barely a scratch — she begins to believe that Eric can actually fly and that he caught her and brought her to safety. However, in the words of the psychiatrist who is asked to have a look at Milly, Milly is fantasizing because "(she) just needs to believe in some magic because (she's) had so much pain."

It is not until almost the end of the film that we actually learn whether or not Eric can fly. When we do learn, the psychiatrist's words come back with a vengeance — belief in magic has become strong enough to dictate reality. This startling revelation reminded me of Disney's *Pinocchio* where Gepetto wished strongly enough that his puppet came to life. But this premise in *Pinocchio* relied also on the fact that Gepetto deserved to have his wish granted — he had worked long and hard all his life without reward. This same logic prevented *Pinocchio* the living puppet from simply wishing and becoming a real boy — he could not gain the magic transformation until he earned it by saving his father from the whale's belly.

It is in this way that "The Boy Who Could Fly" trivializes the problems of its characters. Eric's autism, Charlene's prob-

lems in the new computerized workplace, Louis's problems at school and with bullies, Milly's problem of having to play surrogate mother to both her family and to Eric, the entire family's problem of dealing with the loss of their father: these are all real problems that need real solutions. "The Boy Who Could Fly" makes these magically disappear in one fell swoop. This is not so terrible except that the mag-

ic is without substance: we feel that the problems are solved more by the magic and less by the perseverance of those suffering.

"The Boy Who Could Fly" tries to be a *Pinocchio* for the 80's but unfortunately presents the magic without the feeling. The film cheats in trying to present realistic solutions to life's problems and ultimately fails in its goal to be uplifting.



Lucy Deakins as Milly, and Jay Underwood as Eric.

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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, Oct. 3

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.

### Sunday, Oct. 5

Dr. James W. Prescott, director of the Massachusetts Biobehavioral Institute, will discuss "The Origins of Violence: Neurobiological, Cultural, and Religious Determinants" in a lecture sponsored by the Humanist Association of Massachusetts. The talk will take place at the Lamont Library Forum, Harvard Yard, at 7 pm. For more information call 926-9000.

### Monday, Oct. 6

The African National Congress and the fight for freedom in

South Africa is the topic of a public forum by Thami Sindelo of the ANC's International Bureau. Sponsored by the Institute for Democratic Socialism, the talk will be held at Room 105, Emerson Hall, Harvard University, at 8 pm. For information call 426-9026.

### Tuesday, Oct. 7

The John F. Kennedy Library commences its public forum series with a program examining "1986 Congressional and Gubernatorial Elections."

Discussion will center on whether Democrats or Republicans will control the 100th Congress, and how November's results will shape the upcoming White House contest. Jack Beatty of *The Atlantic*, David Nyhan of *The Boston Globe*, and Peter Osterlund of *The Christian Science Monitor* will be featured in a panel discussion. The forum will be held from 5-7 pm at the Kennedy Library. Reservations are required, although the program is free of charge. For further information call 929-4554.

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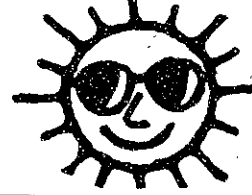
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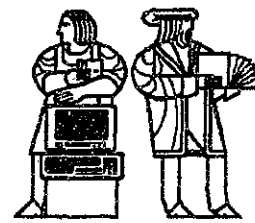
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Sunday, October 5, 8:30 am & 6:00 pm

Tickets will be required for all Friday services. Students can pick up free tickets in Lobby 10 on Sept. 25 and Oct. 1 or in Hillel from Sept. 24 until Oct. 2 Non-students should contact Hillel

Holiday meals will be served in the Kosher Kitchen, located in Walker Hall, Room 50-007: Friday at 6:00 pm and 7:30 pm; Saturday at 7:30 pm; and Sunday at 1:30 pm. Dinners cost \$6.50 and lunches cost \$4.50. Prepaid reservations are required by Thursday, Oct. 3. They will be taken at Hillel, the Kosher Kitchen, or the Lobby 10 Booth. We accept both cash and valid ID. Following the dedication of MIT Hillel's new torah during services on Saturday a special complimentary lunch will be served in the Student Center, Sala de Puerto Rico.

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# opinion

## feedback

### Coalition is tired of waiting

(Continued from page 5)

Over 30 colleges and universities across the country have completely divested, and the blacked frontline states that border South Africa — which stand to suffer severely for their actions — have called for and imposed sanctions against South Africa.

Most importantly, the blacks of South Africa themselves, whose demands we should listen to above all others, have — both individually and collectively — have continued to call overwhelmingly for the withdrawal of foreign investment from their country.

And yet not only has MIT failed to divest, but its official leaders have responded to entreaties for divestment with a stream of evasions, broken promises, and foot-dragging. A brief chronology of some recent events illustrates why we are tired, and we are angry.

A year ago, MIT held a colloquium on South Africa. It was a well-attended and very educational event. Unfortunately, it did not directly address the question of MIT's responsibility, a question which was obviously — as members of the Coalition then pointed out — the most relevant one.

We were then told that MIT was in the process of re-evaluating its South Africa investment policy, and that we could participate in this re-evaluation by meeting with the Advisory Committee on Shareholder Responsibility. A week before the end of classes we were informed that the ACSR would meet privately with three Coalition members on Dec. 11 — the second to last day of classes and arguably the worst day of the term for students. Nevertheless, we attended the meeting.

At that meeting we emphasized the importance of having an open meeting so that all members of the MIT community could participate in the re-evaluation. The ACSR said that they would call a meeting during the spring term.

After several weeks, we were contacted by the ACSR, only to discover that MIT had already completed its re-evaluation without community-wide input, and that this so-called "re-evaluation" resulted in virtually no change at all.

It was at this point that, in frustration, we built a symbolic "Township Alexandra" to dramatize the plight of the South Africans, and to show solidarity with them in their struggle. As you recall, we also brought our concerns directly to the MIT Corporation at their March 7 meeting.

Although over 100 Coalition members requested that two of their number be allowed into the meeting to present their case directly to those who make MIT's divestment decisions, this was not allowed. Instead, a week later, Simonides — the same man whose negligence caused the cancellation of this fall's meeting — and Senior Vice President William R. Dickson '56 led the campus police on a dawn raid which resulted in the destruction of Township Alexandra and the arrest of eight MIT students.

Last June, in private meetings with CJAC and with the Executive Committee of the Corporation, we again requested to meet directly and publicly with MIT's leaders — so that the MIT community could be involved in a genuine re-evaluation.

This request was received extremely reluctantly. CJAC members claimed that such a public involvement would involve Corporation members in "debate." This they deemed undesirable because it would, they claimed, serve to increase hostility between anti-apartheid activists and Institute officials.

Apparently not recognizing that it was MIT's support of racism in South Africa that was the single greatest cause of any such hostility, CJAC instead proposed a forum intended to resolve the so-called "communication problem" which had allegedly arisen

during the events surrounding the arrest and prosecution of students last spring. CJAC hedged on whether Corporation members would be a part of this forum.

It seemed obvious to us then that MIT officials wanted once again to avoid the central problem — MIT's investment policy — by concentrating only on its symptoms. Yet apparently, to judge by the cancellation of this forum, MIT cannot even keep its promises to deal with the symptoms. How then, Dr. Gray, can we expect that you or the Corporation will deal with the problem itself?

It seems clear from the above history that unless we and other concerned members of the MIT community continue to raise the problem vigorously and forcefully, it will not be dealt with. We have desired to be a part of a humane university — one that might be moved by arguments based on principles of reason and dictates of conscience.

Sadly, however, it seems that MIT's investment decisionmakers know no principle besides profit, and that unless those of us who desire a more humane investment policy are willing to learn the lessons of Columbia and Berkeley, MIT will not divest.

Accordingly, we wish to inform you that we will continue to be open to any meaningful discussions that would allow the MIT community to participate in a genuine re-evaluation of MIT's investment policy.

We will not, however, waste our time in polite conversations with meaningless committees or in backroom meetings behind closed doors. Neither will we be parlayed into passivity by endless postponements and empty promises. This issue is too important; the imperative to act is too clear. MIT must divest.

Steve Penn G  
Gretchen Ritter G  
and three others

for the Coalition Against Apartheid

### ODSA-student relations disturbing

To the Editor:

I am currently a graduate student at MIT. During a brief return to campus last weekend, I was appalled at the atmosphere among students regarding the Office of the Dean for Student Affairs. Specifically, I participated in a discussion concerning "student monitors."

Apparently, a memorandum was issued by Shirley M. McBay announcing a mechanism whereby students would serve as peer

police to enforce the policies of the ODSA. Although this memo was clearly a hack, a surprising number of students believed this to be authentic.

To point: how can such confusion exist at MIT? Moreover, why has no denial been issued by Dean McBay? Still more disturbing is the very idea that students could imagine such a policy statement to be real. Have relations between the students and the

ODSA been allowed to deteriorate to such a degree that the dean for student affairs is now considered to be a dean against student affairs? It deeply distresses me to think this is true.

Name withheld upon request



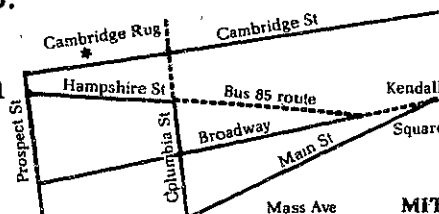
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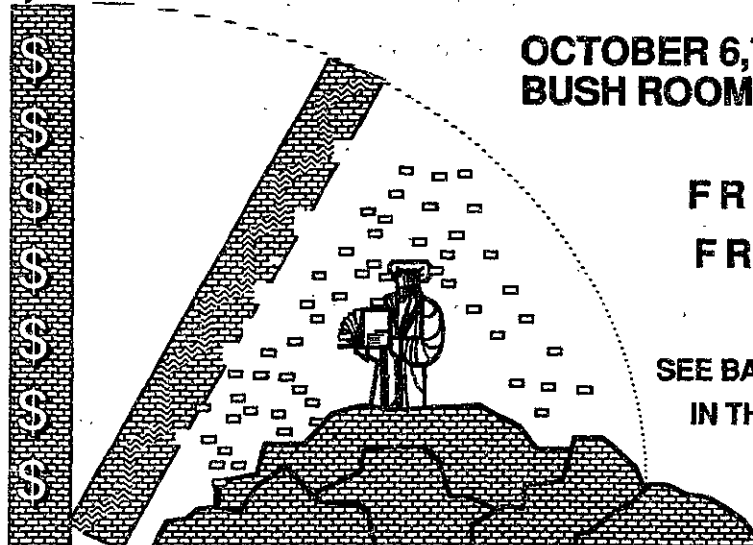
### Harry S Truman Scholarships

The annual *Harry S Truman Scholarship Awards* will be made to current sophomores in good standing who are U.S. citizens or nationals. Two MIT students will be nominated by the Institute. The awards will be for \$6,500 and are renewable for the senior year and for up to two years of graduate study. Any sophomore wishing to be considered should contact Dr. Louis Menand III, E51-201G, or Tobie Weiner E53-460, Ext 3-7752, **NO LATER THAN OCTOBER 3, 1986.**

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# Gravity telescope to be built

(Continued from page 1)  
electric charges produce a magnetic field.

Only extremely massive objects or those traveling at extremely high velocities can produce these gravity waves. The need for greater sensitivity has prevented past experiments conducted in the laboratory from yielding any positive results, Weiss explained. Thus, investigation into gravity radiation has now focused on strong gravity fields, such as black holes and super novae.

The primary purpose of the LIGO project is to meet the necessary sensitivity for gravity-wave detection and provide confirmation of Einstein's prediction. Once detected, these waves should permit researchers to peer through the "cloud" of cosmic radiation enshrouding the center of the universe and thus learn more about its origin, Weiss said.

Essentially, LIGO will be a network of antennae, each receptive to gravity waves, Weiss said. The basic antenna design is to be an L-shaped evacuated chamber containing a laser with high frequency stability and freely-suspended mirrors at the bend and the ends, he said. Then, splitting the laser beam and directing each new beam along a perpendicular leg of the chamber, the component beams would reflect back and forth many times before exiting the chamber.

Since gravity waves are, in theory, polarized, they would stretch the beams in directions orthogonal to each other, leaving them slightly out of phase, Weiss explained. The resulting oscillations produced by these waves could then be distinguished from ground interference by compensating for seismic activity and road traffic.

The MIT team has adopted a curved-mirror reflection system, whose construction is planned to begin in 1988 in a Maine blueberry patch, while the team at Caltech has plans for a Fabry-Perot cavity to be located at a desert site, Weiss said.

Determining the direction of a

gravity wave's origin will require four antennae for precise measurements, Weiss said. Also, absolute determination of gravitational radiation will necessitate several antennae to eliminate any remaining external influences. To this end, the aforementioned research teams from around the world are concentrating efforts on similar gravity wave detectors

to function as integral parts of LIGO, he said.

Frank Shutz, LIGO Project Manager, described LIGO as "very significant," saying that, after gravity wave detection is confirmed, further scientific experimentation should, in all probability, lead to "unexpected results," thus deepening our understanding of the universe.



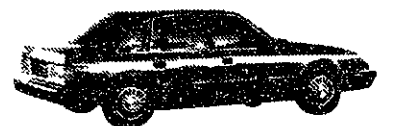
Mike Niles  
Brent Williams '87 and Ken Fagin '87, both majoring in aeronautics and astronautics, prepare to launch a model rocket from Briggs Field.



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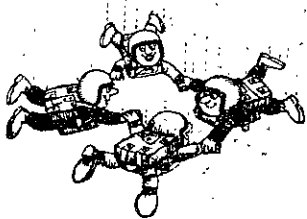
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# sports

## Volleyball defeats Brandeis

By Jerome Braunstein

The women's volleyball team beat Brandeis University Tuesday three games to one by scores of 15-11, 15-6, 12-15, and 15-12. This gave the Engineers an outstanding record of nine wins and only one loss.

The MIT team showed they were there to play right from the start, scoring the first three points in the game. Brandeis came back, finally tying the score

at 11-11. The Engineers took great advantage of their superior height, using their blocking and spiking to take the game 15-11.

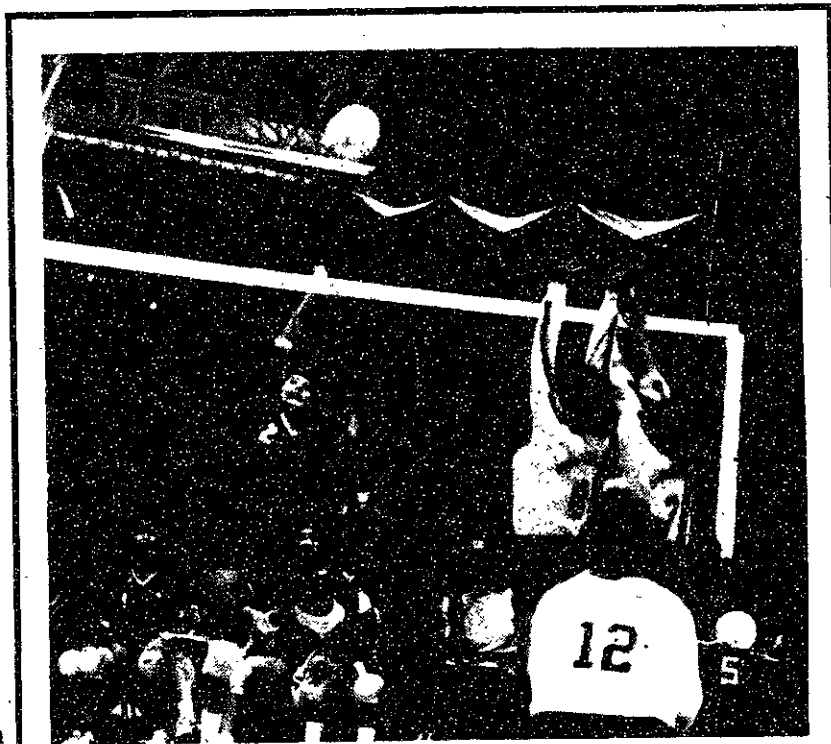
Brandeis scored the first three points of the second game. But the passing and setting of the MIT players led the Engineers to a 13-3 lead. Brandeis held on for a while, but finally succumbed, losing 15-6.

MIT had the lead most of the third game. But fatigue became

evident as the Judges gained the lead, 11-10. The Engineers were unable to stop Brandeis from winning 15-12.

Brandeis led most of the fourth game, but the Engineers mustered up enough strength to win the game 15-12, and the match 3-1.

Captain Chin predicts better playing by the Engineers in their game tomorrow. They are hosting Smith College at 1 pm.



Tom Coppetto

Teri Lowenstein '89 attempts a spike during yesterday's women's volleyball game vs. Mt. Holyoke. MIT won the match in 4 games 12-15, 15-2, 15-4. MIT also defeated Eastern Nazarene the same night, 15-7, 15-7. MIT's record now 11-1.

## Sprys is Academic All-American

### Swimmer named Academic All-American

Linda M. Sprys '88 has been named to the Division III Academic All-American first team. Sprys won the New England Championship in the 200 meter butterfly, and competed in the 1986 NCAA Swimming and Diving Championships.

### Field hockey star sets scoring record

Martha Beverage '87 became the leading goal scorer in MIT field hockey history when she connected twice in a match against Babson College. Beverage's 34th and 35th career goals put her past Julia Neuringer '81 on the all-time list.

### Court star to become basketball coach

Craig Poole '86, the ninth highest scorer in MIT men's basketball history, will be joining first-year head coach Leo Osgood, Jr. as an assistant coach. MIT opens its 1986-87 season hosting the David Koch Co-ed Basketball Classic Nov. 21.

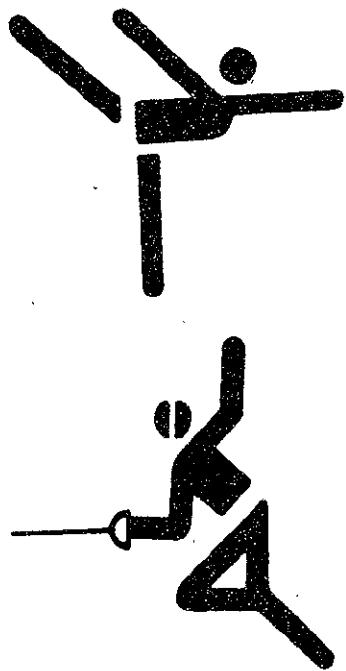
### Volleyball takes second in Salem tourney

The women's basketball team captured second place in the Salem State College Invitational last weekend. MIT defeated Salem State, Fitchburg State, Eastern Nazarene, Roger Williams, the University of Vermont, and Southeastern Massachusetts University before losing in the finals to Eastern Connecticut State.

### Running back named co-player of the week

Christopher J. Adams '87 was named co-Offensive Player of the Week in the New England Collegiate Football Conference. Adams ran for 133 yards on 23 carries, in his second consecutive 100-yard game.

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# sports

## Field hockey conquers Curry

By Marcia Smith

The women's field hockey beat Curry College by a score of 8-0 yesterday. MIT dominated throughout; the inexperienced Curry team never got out of the starting gates.

Kirsten Domingo '90 started off the game with a goal only a minute into the game. MIT kept the pressure on the Curry defense, leading to another goal three minutes later. Cathi Cherubino '88 brought the ball close to the goal, passed to Ann Ferriter '87 who shot the ball past Curry's goalie Diane Gilman from three yards away.

MIT continued to play well, taking many shots. Ten minutes later, Captain Martha Beverage

'87 faked out two defensemen, and took a shot from the left side to bring MIT's third goal.

At this point, coach Louise Jandura took advantage of the lead to give her substitutes playing time. Play was little shaky at first, but Julianne Zimmerman '88 came through with a close-range goal.

Two minutes later Nikki Cianciarulo '90 got her first of three goals. MIT kept the offense strong, but retired the half with a 5-0 score.

MIT play was a bit sloppier in the second half. They made quite a few wild shots, leading to more than the normal number of free shots. Six minutes into the half, Cianciarulo got her second goal.

MIT went back to a slow-paced

game, giving Curry a chance to take charge of the ball more often, but the team could never get a shot on goal.

Jandura then decided to let her players try different positions. For example, she moved forwards Domingo and Cherubino to link and back, respectively.

After 18 minutes of play, Ferriter got the ball from a cross and took it straight to goal, for her second score. Seven minutes later, Cianciarulo made the third goal of her hat-trick.

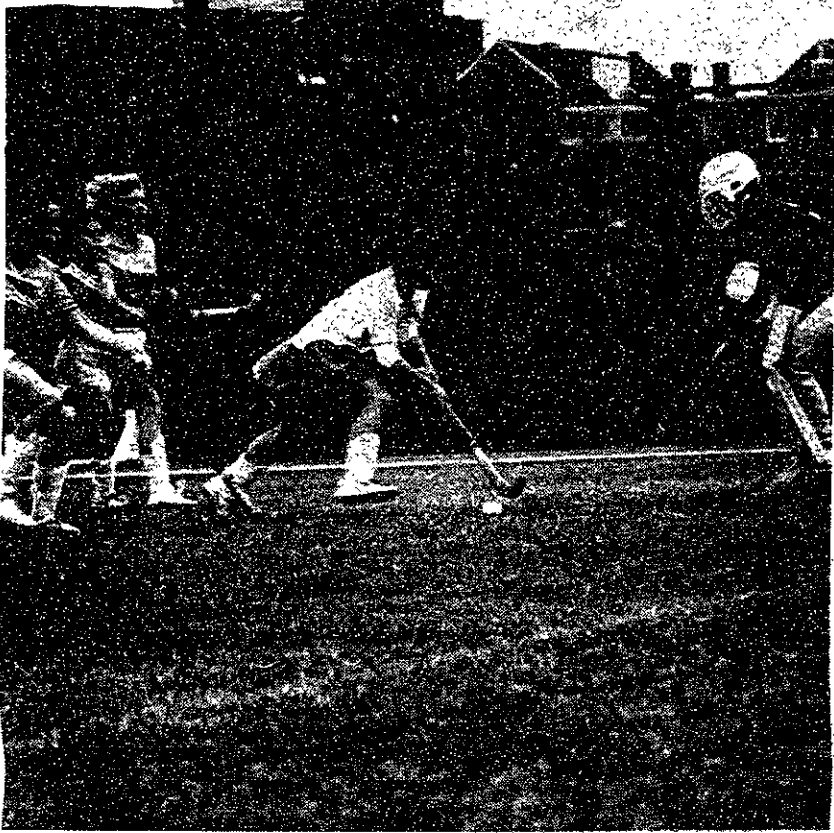
In the last few minutes, MIT came close to getting more goals, but couldn't get the ball in the net. Other players who had strong games were Joanie Fand '89 and Stacy Mann '88.

Women's field hockey's next home game is Nov. 8 against Stonehill.



Mark Virtue

Martha Beverage '87, captain of the women's field hockey team, passes the ball to her teammates during yesterday's 8-0 rout of Curry College.



Mark Virtue

Kristen Domingo '90 takes a shot on goal during yesterday's game.

## Men's soccer team upsets Brandeis

By Marcia Smith

In the finest performance this season for the MIT men's soccer team, the Engineers upset ninth-ranked Brandeis 2-1 last Tuesday at Briggs Field. The team improved their record to 1-5.

The play was very competitive the first half, with action around both goals. The MIT defense of Matthew Solomon '87, James Goldstein '89, Robert Boye '88, and Robert Lohr '88 prevented Brandeis from taking many shots.

But after 15 minutes Brandeis' Don Bulka made a toe shot over goalie Michael Schoen '87 to get the Judges' lone goal.

"The score was only one to nothing at halftime, so I figured we had a very good shot at the game," said coach Walter Alessi. "We held back a team who usually wins by eight or nine goals when they get rolling."

In the second half, MIT took

more initiative. Bashar Zeitoun '87 scored the first goal for MIT, with co-captain Thomas Hoffman '87 assisting. The goal was a very, very slow shot, but the goalie could not make the save. Several spectators called it "half a goal."

MIT kept the pressure on the goal, but the Brandeis defense held strong for 20 minutes.

With only minutes remaining, Hoffman passed the ball up to Edward Savard '87 who faked out one defenseman, challenged the goalie, and made a shot past his left side for the winning goal.

After the second MIT goal, Brandeis began to get desperate, taking ill-advised shots on goal. The team stopped passing; this left them little hope of scoring again.

"Our defensive line was great," commented Schoen, who only had to make six saves for the game. "Brandeis came from a

loss to Harvard, and expected to walk over us. We were confident because we knew that we can play too. We kept control of the ball and didn't allow them to intimidate us." The Engineers held Jeff Steinberg — one of the nation's leading players — scoreless.

The Engineers passed much better this game than in previous losses. In prior games, the offense has had problems putting the ball into the net.

The team's next game is home on Saturday at 10 am against Suffolk.

### MIT 2, Brandeis 1

Brandeis (6-3).....	1	0	-	1
MIT (1-5).....	0	2	-	2

Scoring: Brandeis, Dov Bulka (Jeff Steinberg) 34:57; MIT, Baschar Zitton (Tom Hoffman) 63:36; Ed Savard (Hoffman) 85:01.  
Saves: MIT, Mike Schoen 6; Brandeis, Mike Alamillo 3.  
Shots on goal: MIT 7; Brandeis 17.  
Corner kicks: MIT 2; Brandeis 7.

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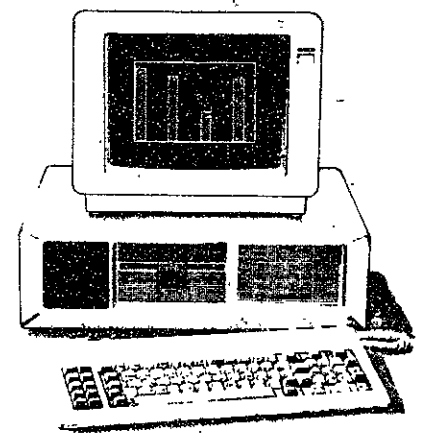
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