



Tech photo by Sidhu Banerjee

Democratic Vice Presidential hopeful Geraldine Ferraro spoke at City Hall Wednesday.

## Ferraro speaks at City Hall

By Janice M. Eisen

Ten thousand people stood in the rain-drenched City Hall Plaza to watch Democratic Vice-Presidential candidate Geraldine Ferraro make a campaign appearance in Boston last Wednesday.

Chants of "We want Gerry!" greeted Ferraro, who arrived half an hour late. When she arrived, she responded, "You're gonna get her."

Ferraro immediately attacked the administration of President Ronald W. Reagan, saying its motto is "Reach out and crush someone."

She said she resented Reagan's recent use of President John F. Kennedy's name, and unfavorably compared Kennedy's policies to Reagan's.

The speech emphasized the issues of arms control and women's rights. "We need a President who will negotiate with the Soviets from his first day in office," she said, "not the first day of his re-election campaign."

"Mr. Reagan likes the gold standard for money and the double standard for women," she said.

Ferraro got laughs when she referred to the president's promise to make a teacher the first civilian passenger on the space shuttle: "Reagan's idea of improving education is to launch a teacher into space."

Other speakers at the rally dismissed recent polls which show the Ferraro and Democratic Presidential Candidate Walter F.

Mondale trailing the Republican ticket of Reagan and Vice President George Bush. Several speakers encouraged voter registration.

After introducing Ferraro, Senator Edward P. Kennedy described how the Boston Celtics had come from behind to win the National Basketball Association championship and presented her with a Celtics t-shirt, which she pulled on over her suit, to the crowd's cheers.

The vocal anti-abortion demonstrators who have appeared at many of Ferraro's campaign stops were not apparent Wednesday. Some signs displayed slogans like, "She knows abortion kills babies," but they were outnumbered by signs supporting the candidate, like "Catholics for Ferraro."

The still of the crowd did not last. During Ferraro's speech, an argument broke out as a man with a sign supporting Lt. Gov. John F. Kerry's Senate candidacy tried to obstruct an anti-abortion sign. He said the man carrying it had pushed other people away to reach his position.

In turn, the man with the anti-abortion sign said others had hit him and tried to destroy his sign.

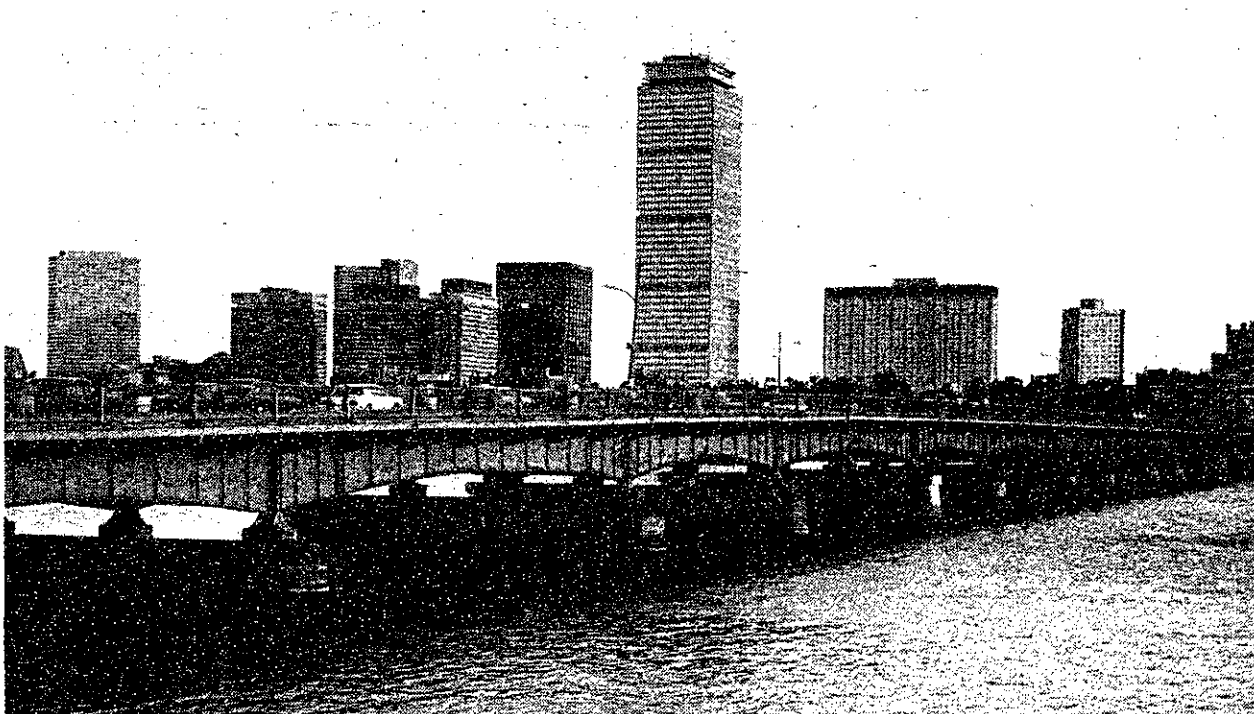
Ferraro also addressed the issue of acid rain: if Reagan were to be re-elected, the next rally in the rain would "require lead umbrellas . . . I want an administration that takes polluters to court, not to lunch," she said.

She also said she wants "an administration that shelters the

elderly, not just the income of the wealthy."

Ferraro criticized Reagan's "Madison Avenue" advertising and his party's claim to be patriotic.

"When we keep the peace, men don't die, and that's a patriotic act," she said. "When we pass the Equal Rights Amendment, we open doors everywhere, and that's a patriotic act."



Tech photo by Bill Flowers

The Harvard Bridge will be closed for reconstruction.

## Bridge to be rebuilt by 1985

By Tony Zamparutti

(Editor's note: This is the first of a two-part series on the plans for the Harvard Bridge.)

The Metropolitan District Commission (MDC) will rebuild the Harvard Bridge because of cracks found in key structural elements last year, but construction will probably not begin until the spring of 1986, according to David Lenhardt, a senior engineer for the agency.

Inspectors discovered cracks in steel hangers that hold part of the bridge's superstructure. After the discovery, the MDC closed the outer lanes of the four-lane bridge and banned trucks and buses from it.

The collapse of a bridge on Interstate 95 in Greenwich, Conn., an accident which killed three people, prompted the inspection. The bridge's structural design was similar to that of the Harvard Bridge.

E. Lionel Pavlo Engineering Company of Boston has completed a preliminary design for the new superstructure. The company will also do the final design

## Dorm proposes policy on drugs

By Joe Kilian

A policy written by Senior House housemasters, graduate tutors, and house officers giving specific guidelines for handling drug infractions is now under discussion throughout the dormitory system.

Margaret J. Keyser, Senior House housemaster, said the document has not yet been formally adopted by Senior House or by the Office of the Dean for Student Affairs.

Tutors and housemasters discussed the proposal at the tutor/housemaster workshop in August and have been asking for student reactions within the dormitories, Keyser said. She does not anticipate further discussion of the proposal until after the tutor/housemaster meeting in October.

"They will probably get more feedback then and decide how they're going to decide [what to do with the proposal]," she explained. Tutors who disagree with the policy may be asked to formulate alternatives in writing, Keyser said.

Associate Dean for Student Affairs Robert A. Sherwood said, "At this point in time, there isn't any firm uniform policy as to

what happens to each individual in any house." Fraternities would be subject to the same policies as dormitories, he added.

The proposed system for handling student drug infractions would implement a "two-warning policy." Under the policy, if a tutor, housemaster, house manager, or other MIT employee observed a student using drugs, he would tell the housemasters about it. The infraction would then be handled within the house. Housemasters would report subsequent drug use to the Dean's Office.

"A chief underlying assumption of this policy is that it takes discretion out of the hands of the tutors," said Wayne Davis, a Senior House tutor. He cited this as a strength, claiming that "students don't have a clear picture of what options tutors, housemasters, the Dean's Office, and Campus Police have in dealing with drug infractions." A tutor will be "less of a policeman" if he "doesn't have to make decisions," Davis said.

Keyser agreed, saying the proposed policy would give tutors, "an impartial position which is known to the students." She said

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Reporter's Notebook

# Night tours: a portrait of MIT hackers

"MIT has the second greatest amount of continuous passageways next to the Pentagon." — a group of MIT hackers.

By Ben Stanger

(Editor's note: Ben Stanger went on a student-run hacking tour during Residence/Orientation Week.) In the early hours of a R/O Week morning, 50 MIT freshmen emerged on the roof of one of the Institute buildings. At first chilled by the night air and hindered by the unfamiliar darkness, they quickly grew accustomed to the environment and took in the view before them.

The entire Boston skyline was visible, and they silently watched cars crossing the Harvard Bridge. Although many of them had seen this panorama before, it was their gathering to practice "hacking" that made the moment exciting.

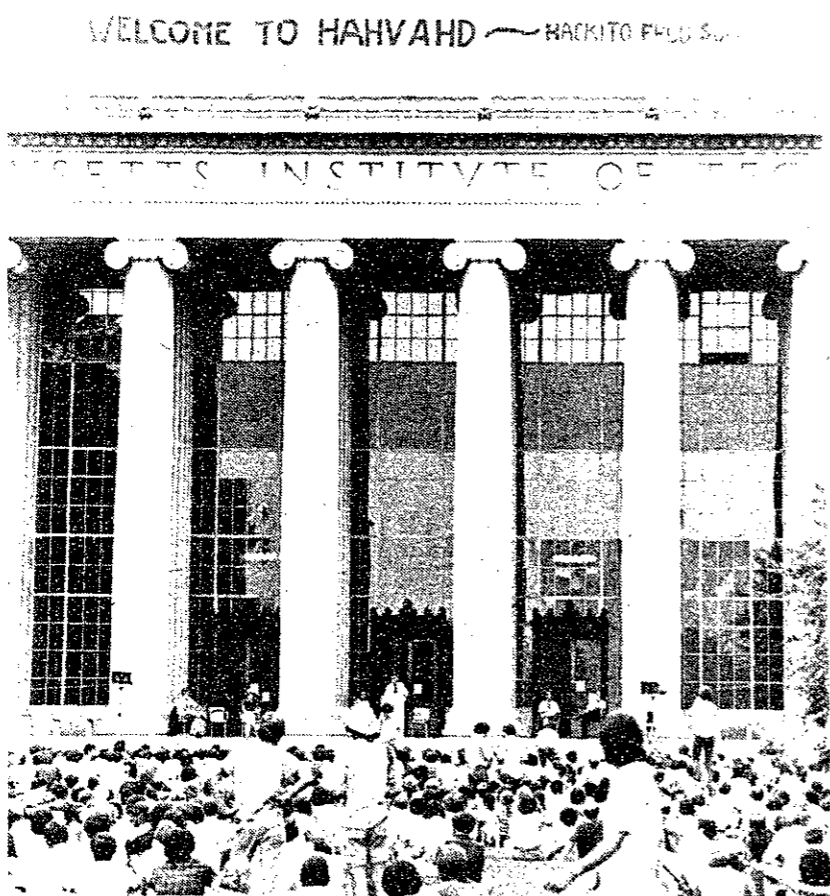
Many freshmen on the tour had heard of hacking, but few expected to hack during their first week at school.

These freshmen were participants in student-run night tours of MIT — "Orange Tours" — which were given five times over three nights before the beginning of fall term. Experienced hackers give these non-standard tours of the campus every year.

Chief of MIT Campus Police James Olivieri said the tours have been in existence in one form or another for 15 years and have grown as the Institute has developed.

"[Climbing] the little dome is trivial . . . all you need is a Vali-dine [to get through the door]. Even though thousands have done it before, there's a thrill in doing it yourself," one hacker said.

The Campus Police failed to catch anyone on a tour this year. "If we see one that's proceeding, we tag along and see where they're going and try to stop the tour," Olivieri said.



Hackers welcome freshmen to Hahvahd during the picnic of 1981.

One hacker offered the following advice on safe hacking: "Small groups attract less attention. Don't run until you're sure you can get away . . . it's a sure admission of guilt."

"If they catch you, they come down on you really hard," he said. "Don't trash anything. It comes out of your tuition anyway."

Another hacker said, "It's a lot more fun for the freshmen than for the leaders because [the leaders] have to worry about everyone."

The first tour is always small because the only way of finding out about it is by word-of-mouth. By the second night, however, one hundred students showed up for the tour, and by the third night, the ranks swelled to about one hundred and fifty.

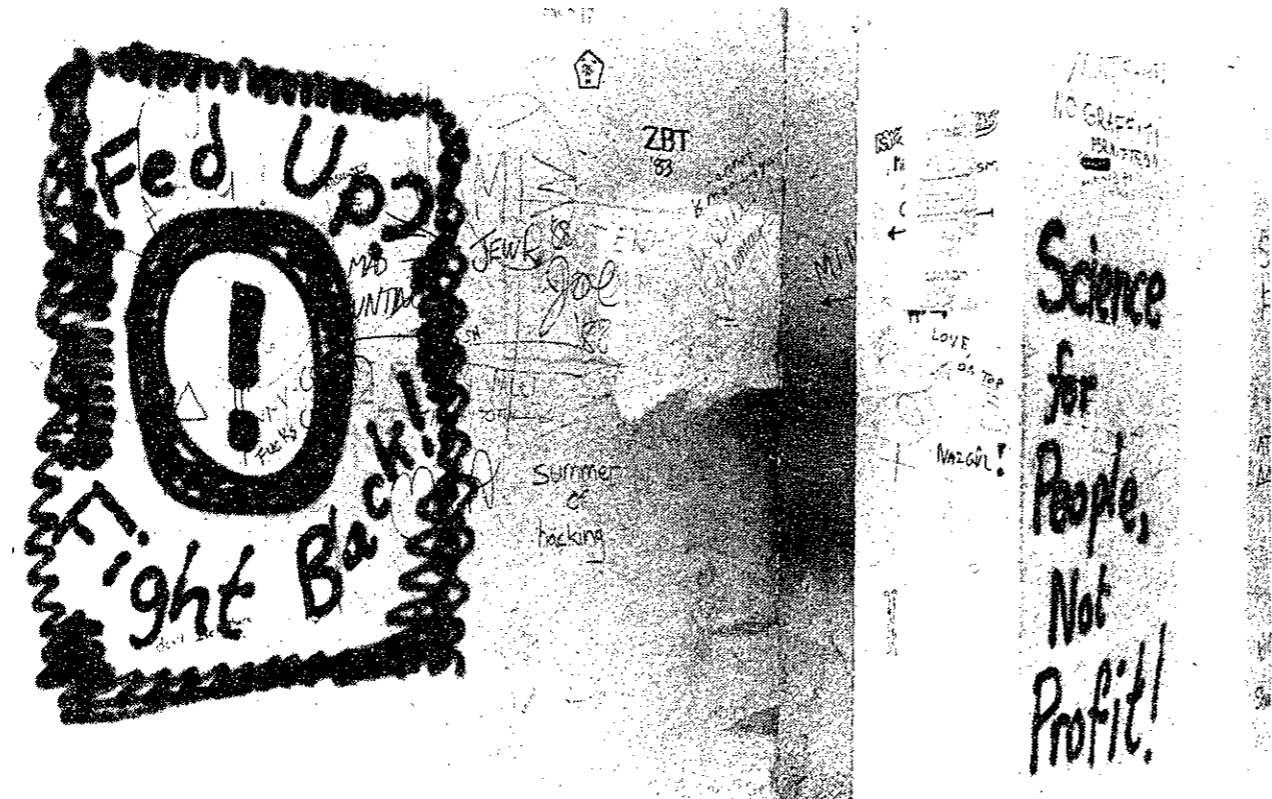
During the course of the tours, students visited the steam tunnels running perpendicular to the infinite corridor, the "tombs" under Building 9, and the roof of the Green Building — the tallest structure in Cambridge.

Although the view is spectacular, stopovers at the Green Building are rare because of sophisticated alarm equipment installed to prevent access.

Hacking is officially prohibited by the administration because of the danger involved and the damage caused by hackers, which amounts to thousands of dollars each year.

Sherwood said the only time that hacking is condoned is during the freshman picnic.

MIT levies \$50 fines on all students found on Institute rooftops, except for dormitory rooftops. The campus police assess the fine, the Dean's Office receives notification of the fine, and MIT Physical Plant receives the money. Fines are used to repair damages and to act as a deterrent.



Hackers deface an entrance to the MIT underground tunnels.

Tech photo by P. Paul Hsu

At first chilled by the night air and hindered by the unfamiliar darkness . . . they took in the view before them.

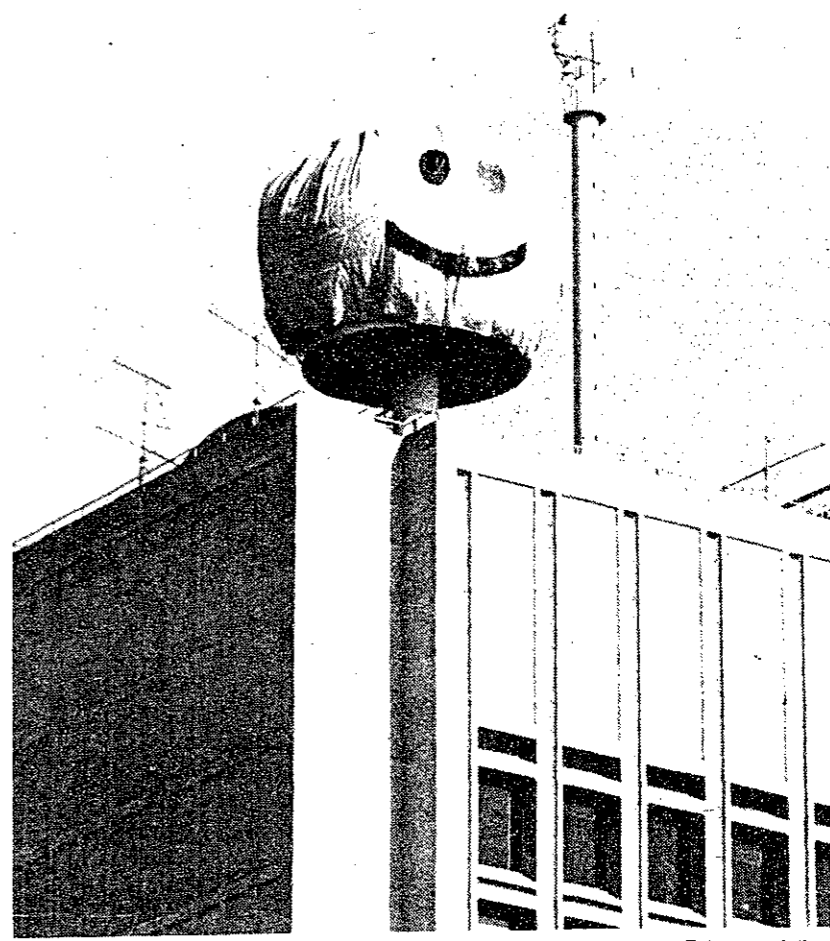


Photo courtesy MIT News Office

A smiling face "magically appears" to overlook the top of the Green Building.

Olivieri is concerned about the safety of the students participating in the tours. The chief said he believes the Institute could sponsor such tours to provide touring "in a controlled manner" and "a safeguard against the hazards."

Olivieri also believes Institute-sponsored tours would help dissuade students from hacking during the year.

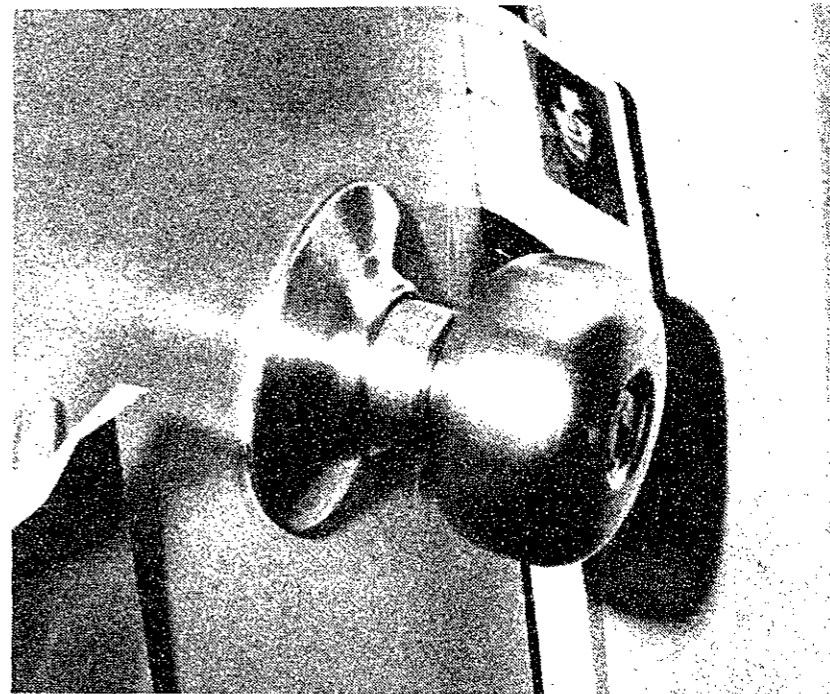
The primary reason for roof locks is student safety, according to Associate Dean for Student Affairs Robert A. Sherwood. He said he did not think night tours sanctioned by MIT would be popular because they would lack the "clandestine nature" which makes the "orange tours" successful.

"Over the years, there have been some scrapes and bruises. Sometimes a fall . . . but no serious injuries," Olivieri said.

The hackers take many precautions during the tours, and advise everyone of certain procedures before starting.

The leaders warn the participants not to run under any circumstances because of wires and holes which are not easy to see in the dark. In addition, seasoned hackers keep watch at all danger spots and climbing areas to avoid any potential accidents.

" . . . all you need is a Vali-dine to get through the door."



Tech file photo

An MIT identification card will open many doors for you.

Most hackers also recognize the importance of style in hacking. "Like it or not, MIT is your home away from home for four years," a student said. "You wouldn't kick in your bedroom door just to get in . . . Orange tours give credence to non-destructive hacking."

Olivieri said hacking "would not lead to expulsion, but there are disciplinary actions which are appropriate." Hackers say it is easier for freshmen to hack because it takes so much time and because freshmen will be released with only a warning.

Hacking "is probably consistent with the type of student here: curious," Sherwood said. "There's a lot of freedom around here."

As one hacker said, "I'd encourage every single MIT student to go up there and hack. Try it, you might like it."

"MIT is your home away from home for four years. . . . You wouldn't kick in your bedroom door just to get in. . . ."

The hackers, Olivieri, and Sherwood all recognize the important distinction between a good hack and malicious vandalism. Locks and experiments have been destroyed in the past, windows have been smashed, and chemistry lab inlets have been stuffed with coke bottles, Olivieri said.

Sherwood attributes actions of this destructive nature to "ad hoc" hackers, not to the mainstream of traditional MIT hacking. The Technology Hackers Association's "credo is to never damage anything," Sherwood said.

Olivieri agreed that THA tries to keep from doing damage and said "groups like THA have a lot more finesse."

# news roundup

## World

**Shultz and Gromyko meet** — Secretary of State George P. Shultz '49 and Foreign Minister Andrei A. Gromyko held talks in New York, in preparation for a Soviet meeting with President Ronald W. Reagan. The discussion was "a good start," according to a senior State Department official. The official said the talks dealt with issues of arms control, regional disputes, and human rights. In a United Nations General Assembly speech on Monday, Reagan outlined some proposals concerning US-Soviet relations. Shultz said, "We look forward to welcoming [Gromyko] in Washington on Friday."

**Argentina to receive credit** — A program of austerity has been adopted by the International Monetary Fund (IMF), which would make billions of dollars available for Argentina. The additional money flow from the 148-country organization would put a clamp on major uncertainty in the international market.

**Jordan and Egypt plan to resume ties** — Jordan announced Tuesday it would resume relations with Egypt. Seventeen Arab countries broke relations with Egypt after the peace accords of 1978; Jordan is the first of them to resume ties. Syria immediately denounced Jordan's plans. A Syrian spokesman said that "a departure from Arab summit resolutions [would] further complicate the Arab situation."

**Men found preserved** — John Torrington, a British Navy petty officer who was buried for 138 years in the Arctic permafrost, has been found almost perfectly preserved, according to University of Alberta researchers. He was 20 years old when he died on the ill-fated Franklin expedition across the Northwest Passage. He now lies in a grave on Beechey Island in the Canadian Arctic. Graves of two other expedition members lie nearby.

## Nation

**IBM acquires Rolm corporation** — The International Business Corporation announced Wednesday that it would acquire the Rolm Corporation, a leading producer of telephone switching equipment located in California's Silicon Valley. The purchase price is \$1.25 billion. Rolm works with computerized switchboards called "private branch exchange systems," which will eventually be used to transmit pictures and text. This acquisition is IBM's first since 1962, when it bought Science Research Associates.

**Congress votes for more forceful tobacco warnings** — Congress approved a bill which would require cigarette manufacturers to more forcefully warn smokers of the dangers of smoking. This bill requires four warnings telling of the relationship of cigarette smoking and lung cancer, heart disease, emphysema and fetal injury or premature birth in pregnant women. While the White House has not stated whether President Reagan will sign the bill into law, supporters are confident because of the strong bipartisan backing the bill received.

**Reagan blames Beirut bombing on intelligence cutbacks** — President Reagan stated on Wednesday that "the near destruction of our intelligence capability" in the years before he became president caused the bombing of the US embassy in Lebanon last week. This statement came after former Vice-President Walter F. Mondale held Reagan accountable for not taking proper steps against terrorism in Lebanon. Director of Central Intelligence William J. Casey said increases in the budget of the agency began in 1979, but that the budget was reduced under the Republican Administrations of the early 1970s.

**Acne medicine could cause birth defects** — There is evidence that Accutane, a new prescription drug for acne, can kill or malform the human embryo, according to the March of Dimes Birth Defects Foundation. "Any sexually active woman should have a pregnancy test before treatment with" the drug, said Arthur J. Salisbury, M.D., March of Dimes vice president for medical services. The drug was known to cause birth defects in test animals, and was sold with a warning of risk. To date, the manufacturer and the Food and Drug Administration have received 29 reports of miscarriages and birth defects after use of the drug during pregnancy.

**Transfusion blood product poses risk** — In a warning issued on Wednesday, health experts suggested that up to ten thousand patients each year might be contracting hepatitis and other diseases from transfusions of fresh-frozen plasma. The experts also stated that 90 percent of these patients did not need the blood product. A panel organized by federal health agencies expressed its concern over the indiscriminate use of fresh-frozen plasma.

**Young roaches in love** — Yale University chemists have synthesized a cockroach aphrodisiac. Several quadrillionths of a gram of the substance, periplanone-B, is enough to send half a dozen male cockroaches into sexual frenzies leading to their deaths, said Dr. Stuart L. Schreiber, co-developer of the substance. "They immediately stand on their back legs and start flapping their wings madly," added Schreiber. Who says New Haven is boring?

## Sports

**Holy Cow!** — The Chicago Cubs, perennial losers of America's favorite pastime, clinched the National League Eastern Division championship. This is their first championship since 1945. The Cubbies hold a record of 93-64, making the New York Mets, currently five games behind, mere also-rans. The Cubs will meet the San Diego Padres, who clinched their first playoff spot since their inception, for the National League pennant.

**Houk bids Sox adieu** — Ralph Houk, manager of the Boston Red Sox, is retiring from the position at the end of the season. After a four-year reconstruction of the team, he decided that the "packing, unpacking and travelling" had worn him down at the age of 65. The four-year record of the Sox stands at 59-49 in 1981, 89-73 in 1982, 78-84 in 1983, and 84-73 in 1984.

**Ivy football, you bet** — Starting last Saturday, public television began showing Ivy League football games as part of a new football season. This development is the result of a Supreme Court ruling in June which took away the NCAA monopoly on control of television contracts with its member schools.

**Benoit wins Sportswoman of the Year** — Joan Benoit, winner of the first women's Olympic marathon, received the Women's Sports Foundation award for amateur sportswoman of the year. Geraldine A. Ferraro, Democratic vice-presidential candidate, presented the Illinois native with the award. Mary Lou Retton, the Olympic gymnastic all-around champion and co-recipient of the award, was travelling, but was expected to make the awards dinner. She had been in Los Angeles to participate in the Emmy Awards last Sunday.

## People

**Court dismisses Beate paternity suit** — A West German court ruled that former Beatle Paul McCartney is not the father of 21-year-old hairdresser Bettina Huebers and dismissed an \$825,000 paternity suit. The chief judge said during the 10-minute closed hearing that scientific test proved beyond doubt that McCartney could not have been the father of Erika Huebers' child.

**Kissinger's former maid is charged** — Elizabeth Moyano, the former maid of Henry A. Kissinger, has been charged with possessing nearly \$200,000 worth of property stolen from the former Secretary of State's New York City apartment. Nancy Kissinger identified some of her husband's art objects at the suspect's apartment in Union City, NJ. Moyano had also stolen Mrs. Kissinger's fur coat.

## Weather

**Another weekend washout** — A weak storm system assures damp and chilly weather today with light rain and temperatures from 48-52. Cloudiness will continue tomorrow with highs from 52-56.

Ben Stanger  
Thomas T. Huang

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# opinion

## Editorial

### Faculty must take CEP plan seriously

The Committee on Educational Policy (CEP) has proposed to the MIT faculty a contingency plan to alleviate the over-enrollment problem in the Department of Electrical Engineering and Computer Science (EECS). Some students in future classes would be forbidden to major in Course VI under the proposal. Although the department already has tried some solutions, such as asking faculty members from other departments to teach, the solutions have not worked. All involved realize more drastic measures are necessary.

If the restrictions are to apply to next year's freshman class, the faculty must vote on any recommendations by end of October. The Committee on Undergraduate Admissions and Financial Aid (CUAFA) must decide by next week what to recommend to the faculty.

There are presently 350 EECS sophomores, and the department heads have agreed that Course VI cannot reasonably handle more than 270 new students a year. The CEP proposal calls for the Admissions Office to select a varied group of students — not more than twenty-five percent of the class — to receive, along with their official acceptances in April, notification that they may not major in EECS.

The administration and faculty must not lose sight of long-term solutions. The Department of Electrical Engineering and Computer Science has been bursting at the seams for many years, and requires some degree of expansion and more efficient use of facilities to better accommodate its current students.

The Admissions Office must also continue to expand its efforts to break the popular perception that "MIT equals engineering" and to attract non-traditional MIT students, such as prospective humanities and social science majors.

The Office of Career Planning and Placement must strive on the one hand to convince students that they can obtain high-paying jobs with a degree from any department, and on the other to convince recruiters to hire employees with degrees in departments other than EECS. One factor causing an excessive number of students to major in Course VI is job prospects. Many companies actively recruit EECS graduates. Every year, however, graduates of the School of Science receive salary offers comparable to those offered their Course VI counterparts.

The administration must not create an elite of students "good enough" to be permitted into EECS. The Admissions Office must determine randomly those students to be restricted, rather than basing the decision on a judgment of how likely the student will be to opt for Course VI.

Random selection will ensure that no group receives special consideration. No student will be able to say to another, "You only got into Course VI because you're a woman." Similarly, no one admitted to Course VI will be able to say, "I was admitted to EECS because I am better."

The faculty must take decisive action. The CEP proposal provides a good basis on which to build a well-planned, effective, and equitable policy for dealing with the serious problem facing Course VI and the rest of MIT. No action, or ill-conceived action, will have far-reaching, detrimental effects on the entire community.

They should also remember that a policy change of this magnitude must be re-evaluated annually, rather than after the three years that the proposal suggests. Whatever path MIT policy may take, the Institute must realize its ultimate responsibility is to return to a system of open enrollment.



Column/Joseph L. Shipman

### Mixing politics and religion

First of a three-part series

The age-old debate on the relationship between religion and politics has flared up again. I've seen enough hypocrisy and fuzzy thinking about these two institutions to impel me to present my own views. Here I address some of the questions people have been arguing about recently:

*What role should religious leaders play in political campaigns?*

Religious leaders, like anyone else, are free to support any candidates and positions they want, but they should make it very clear when they are speaking as church authorities and when as private citizens. For instance, Jerry Falwell went way too far when he called Ronald Reagan and George Bush "God's instruments for rebuilding America."

When Archbishop O'Connor of New York said "I don't see how a Catholic could in good conscience vote for a candidate who supports abortion," he implied it might be sinful to do so. This was an abuse of his position. If O'Connor thought voting for a candidate who favors abortion was sinful, he should have openly said so, but he knew Catholic church leaders would not back him up if he explicitly took that position.

In fact, the Catholic bishops have issued a statement saying that the two most important issues in this year's elections are arms control and abortion. This is a much more appropriate policy than O'Connor's, not because it is less partisan (Mondale and Reagan are each closer to the Catholic church's position than

he is on one of those two issues), but because it focuses on the issues without implying that one has a religious duty to vote for a particular candidate.

*How should political candidates treat religion in their campaigns?*

As bad as it is for clergymen to step into politics, it is just as bad for a political candidate to cloak himself in the mantle of religion and imply that God is on his side, as Reagan has been doing.

Not only has Reagan shamelessly sought opportunities to associate himself with church leaders (e.g. arranging photo opportunities with Pope John Paul II and saying he has often sought the Pope's advice, attending a prayer breakfast with 17,000 fundamentalist ministers, and appearing with bishops on campaign stops), he has represented himself as a protector of religious freedom and claimed that opponents of prayer in public schools are "intolerant of religion." This is hypocrisy.

While Reagan would agree that government has no business promoting any particular religion, he would justify his support of school prayer by calling it "voluntary", and saying that no particular religion need be favored. This is ridiculous, because:

- In general, second-graders will not be volunteering to lead prayers — teachers and school administrators will be.

- It seems inevitable, given the overwhelming majority of Christians in most towns in the United States, that the "voluntary prayers" will favor certain religions over others.

- A prayer favoring no particular religion is no prayer at all, and compromising by holding different types of prayers on different days leads to even more obvious inequities;

- Any prayer will be intolerant of agnostics and atheists. Schoolchildren are very impressionable, and a school represents tremendous authority. It is unfair to children who have been raised as atheists or agnostics to expect their beliefs to remain unaffected.

By favoring school prayer, Reagan is identifying himself with groups who do not accept the axiom that Congress ought to make no law respecting an establishment of religion, etc.

Compared to Reagan's statements, the behavior of Reverend Jesse Jackson has been exemplary. He used religious themes to good effect in his primary campaign, but he never claimed to be a champion of religion or an example of piety. The hundreds of black churches which supported Jackson made clear they were doing so as a political action, not because they thought it was religiously required.

I will not conclude "the churches should stay out of politics," or that politicians should ignore the pronouncements of churches, or that voters need not consider the moral consequences of their votes. Reagan's connection of morality with politics is a valid one. In my next column, I will argue that political discourse should focus more on moral issues, and discuss the issues of nuclear arms and abortion and the role of religion in these debates.

## The Tech

Volume 104, Number 40 Tuesday, September 25, 1984

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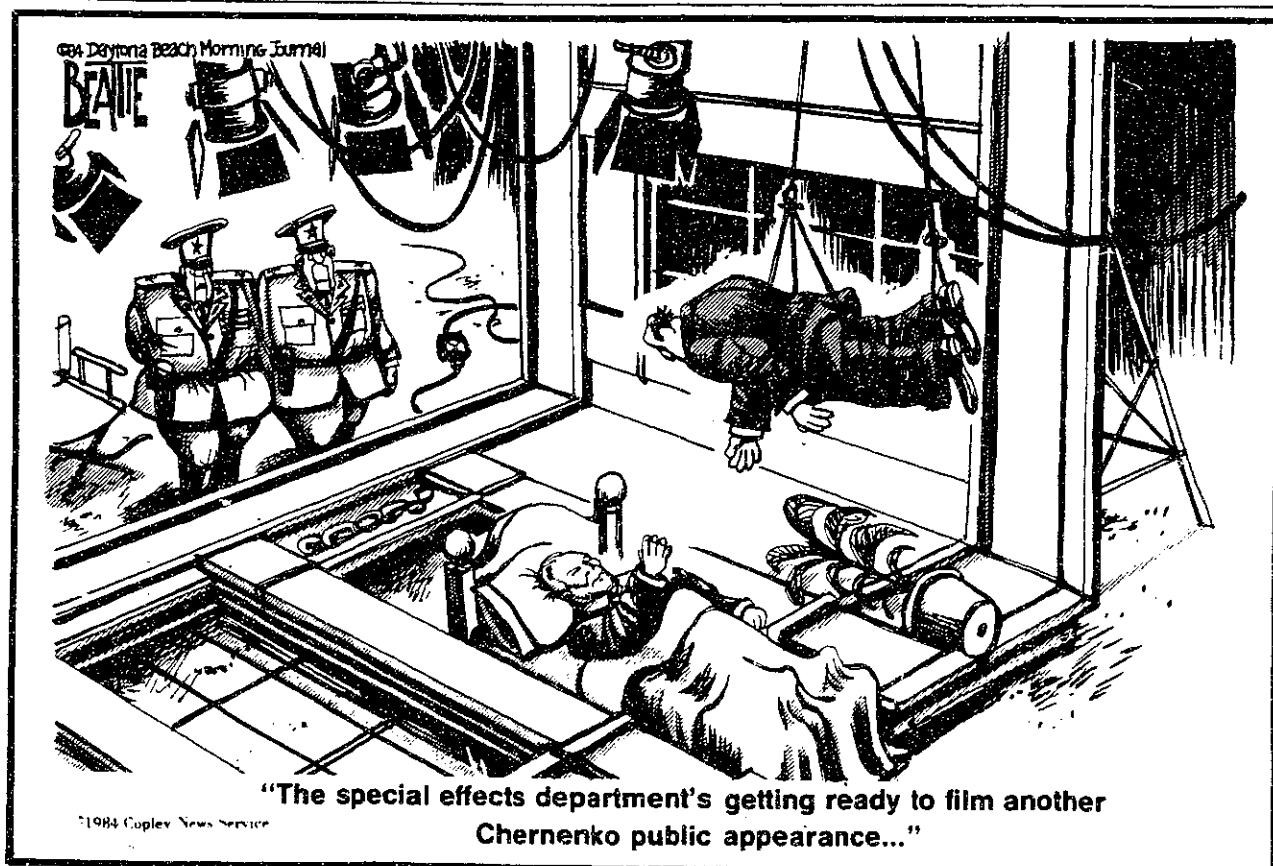
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The Tech (ISSN 0148-9607) is published Tuesdays and Fridays during the academic year (except during MIT vacations), Wednesdays during January, and alternate Tuesdays during the summer for \$12.00 per year Third Class by The Tech, 84 Massachusetts Ave. Room W20-483, Cambridge, MA 02139. Third Class postage paid at Boston, MA. Non-Profit Org. Permit No. 59720. **POSTMASTER:** Please send all address changes to our mailing address: The Tech, PO Box 29, MIT Branch, Cambridge, MA 02139. Telephone: (617) 253-1541. Advertising, subscription, and typesetting rates available. Entire contents © 1984 The Tech. Printed by Charles River Publishing, Inc.



# opinion



Column/Ken Meltsner

## MIT is not for professionals

Ask an MIT student what he or she intends to be and you will be told a Course number. Ask what he or she will actually do and you'll get no answer at all.

An engineering or scientific education is too often confused with the profession of engineer or scientist. A degree from MIT certifies only that you know the facts of your field, not their practice. The problems you will see in your job will be either trivial or impossible. Problem sets and quizzes will not prepare you for telephone consulting, nor will your thesis prepare you for project presentations. With rare exceptions, nothing at MIT will make you a professional.

Take a personal example: Two years ago at Chevron, I got ill at the start of my research project. Instead of taking a couple of days off, I forced myself to go in every morning. I did not get my work done, my writing was incomprehensible, and my body felt like I had put it through an old-fashioned washing machine.

My supervisor noticed my problems and called me in for an explanation. I apologized and mentioned that I had been sick. He blew up at this, saying that it had been my duty to stay home when I was sick, and that he would not accept excuses about

performance. In college, he continued, you could play the martyr and go to all of your crucial lectures, but if I could not do the job I was paid to do, then I had better stay at home and not waste money.

Life at MIT just does not prepare you for the real world. Rarely will you need to stay up late or work on weekends. Work, even sugar-coated with flextime and "relaxed working environments", is just a day-after-day grind. The only good thing about the world outside is that your work will end when you go home. Even \$30,000 a year should not suffice to buy your soul.

My major did not prepare me for any of this. It turned out that the subjects I took outside of my department were the most important. I got the job at Chevron because the big boss was impressed that I had learned German at MIT. Without a good background in metallurgy, I could not have done my job, but without German I might not have gotten it.

Perhaps the single most important subject anyone here can take is technical writing. No one will judge you on how clever you are, only on how well you can write about your cleverness. Chevron

engineers write at least 3 or 4 reports every week and that is the only tangible evidence of performance. If lab reports or term papers make you break out in hives, you had better find a job as a technician. Professionals must write about what they do.

It all comes back to the myth that MIT is a professional school and that when you graduate you become a professional. At least four of my friends have quit or will quit their jobs soon. They could put up with problem sets at MIT because they learned from them, but writing yet another video game or Unix program is unendurable when the learning stops. About two or three years into their careers, they all realized they were not doing interesting work and are looking for new jobs.

You can get around the second-year surprise. Insist that every assignment teach you something new. If you do not, in five years you will be in management or you will be in a new job.

In every field, you can be either a practitioner or a supervisor and what you do depends only on that choice. Do not confuse your Course with your career: A major is no more a profession than an embryo is a baby.

Column/Charles P. Brown

## Powers of CAP are not well defined

First of a seven-part series.

During the 1983-84 academic year I served as one of the undergraduate student members of the Committee on Academic Performance. This committee has the power of life and death, so to speak, over the academic careers of students, yet most students are woefully ignorant of its purpose and powers.

MIT is an educational institution, and a student's progress is evaluated in terms of his or her performance in academic subjects. Graduate students are evaluated by their departments, and undergraduates are evaluated by the Committee on Academic Performance.

The CAP is a standing faculty committee; its voting membership consists of a faculty member chairman, four members appointed from the faculty, a faculty member appointed by the Committee on Educational Policy, and three undergraduates appointed by the Undergraduate Association Nominations Committee. There are also several *ex officio*, non-voting members who work for MIT student services organizations.

The CAP has several areas of responsibilities in academic matters. First, it hears student petitions for waiving academic regulations. These include petitions for:

- dropping a subject after Drop Date
- changing a subject from pass/fail to grades or *vice versa* after Add Date
- requesting the extension of the deadline for completion of an incomplete
- asking for cancellation or reinstatement of credit for a semester
- seeking permission to exceed a freshman or warning credit limit
- applying for readmission to MIT after being required to withdraw by the CAP.

Second, at the end of each semester, the CAP reviews the performance of each student who was registered for less than 36 units or achieved a semester scholastic average of 3.0 or lower, and any other students the committee wishes to discuss. The CAP can take any of the following actions with respect to each student:

- nothing
- send the student a letter concerning over-involvement in extra-curricular activities
- send the student a letter concerning a high number of incomplete units for the semester
- give an academic warning, which usually limits the student's course load to no more than 48 units for the following semester
- require withdrawal from MIT, usually due to continued poor academic performance; with readmission to MIT possible either by petition to the CAP or by permission of the Office of the Dean for Student Affairs
- send a letter of congratulations to a student who did relatively well after being put on warning or coming back from a required withdrawal

Third, the committee approves candidates for undergraduate degrees and submits the names to the faculty for their approval.

Finally, the committee discusses other issues related to academic performance, and either changes its policies or recommends changes in Institute policies. When I was on the CAP, we discussed issues including problems faced by students who were forced to withdraw due to financial problems during a semester and the problem of students on warning who refuse to drop down to or below their credit limit. We also talked about the problem of students petitioning to complete old incompletes, the academic meaning of a "D" grade, and the procedures and privileges of a double degree program.

These issues and the CAP's duties are not always clearly defined, nor are they clearly understood by the faculty and the students.

The intent of this column and the columns to follow is to interpret what the CAP is and what it does, and to examine some of the issues it discussed during my year on the committee.

If any former or current member of the CAP disagrees with my interpretations I urge him to write and explain his beliefs. Hopefully, students and faculty can gain an understanding of the CAP and how it affects them.

Charles P. Brown '84 is a former editor in chief of The Tech.

## feedback

### Questions exemption to Right to Know Law

To the Editor:

I would like to comment on the Right to Know Law to which MIT is applying for exemption.

This state law is badly needed right now. In the last ten years, advances in genetic engineering have significantly increased the use of genetic markers (irradiated genes) in biological studies. In addition, cancer researchers have become very reliant upon radioisotopes to study target cells. In short, anything that needs to be "tagged" in a living system is irradiated.

Currently, labs at MIT use radioisotopes, carcinogens, and volatile solvents which are known to be hazardous to humans, fairly routinely — perhaps more routinely than the general student body is aware. These labs are careful to alert most students of safety procedures. But I must stress "most." It is very easy for a

UROP student working with tritiated ATP (fairly harmless) to wander into the lab next door where they're using <sup>32</sup>P (a beta emitter linked to leukemia and cataracts) or <sup>125</sup>I (a gamma emitter linked to cancer and birth defects). He'll grab a pair of radioactive scissors and march down the hall with them. No one thinks to bar a student from an adjacent lab. Perhaps with a more stringent safety law, they would.

I know this scenario might sound isolated or infrequent, but I have seen it happen many times.

And now the question for MIT students: Don't we have the Right To Know? MIT says it doesn't want to deal with the additional paperwork. I don't give a damn about their paperwork. I give a damn about leukemia and birth defects.

Amy Thompson '86



# opinion

## feedback

### Corrects ISP story details

To the Editor:

I would like to clarify a couple of points in the article about the Integrated Studies Program (ISP) that appeared in the Tuesday, September 25 issue of *The Tech*.

*The Tech* is quite correct when it reports ISP lost several students to two problems, a desire to continue language study and Advanced Placement. However, language study and Advanced Placement in the Fall term do not exclude a student from ISP participation in the spring term.

First, ISP encourages students who choose a language in the first term to consider joining the program in the second term, when an available elective slot makes continued language study and ISP compatible.

Second, Advanced Placement by itself does not preclude participation in ISP. In fact, several of our current students have received AP credit for one or two core courses. When a student enters MIT with more than two core AP credits, it becomes difficult to participate fully in ISP during the Fall term. Again, however, it is possible to join in the spring term, when some of the ISP recommended courses and the elective slot will fit the schedule of such a student.

Finally, I would like to clear up one other possible misunderstanding. *The Tech* quotes me as saying "the program will continue to be offered 'at least through this Spring,'" and Professor Trilling as saying that ISP has "a charter [with MIT] for a three-year experiment." To avoid any confusion I would like to note that the program has been authorized by the CEP for three years, and new enrollment will be encouraged for the spring term.

We are actually off to a promising start, and are quite enthusiastic about our first year. Any student interested in joining ISP may want to visit us, particularly during our Wednesday lunch series, when our students and faculty have informal seminars or field trips.

On the whole, I would like to thank *The Tech* for its interest in ISP, and for an essentially balanced article.

Anne Armitage  
Administrator, ISP

### Likes MIT's type of art

To the Editor:

In response to Kimberly Sklar's column of September 25 ["Beautiful art does not exist at MIT]:

I admit it. I'm the one. You knew there had to be somebody. You never said as much in your column — that would have been a controversial statement indeed. But you implied it. And I admit it. I'm the one you were thinking of.

I like MIT art.  
Mark Johnson '88



## feedback

### Examines CAN money

To the Editor:

It has recently come to our attention that the Committee to Assist Non-registrants (CAN) has chosen the American Friends Service Committee (AFSC) to handle its funds. ["Students raise \$3000 in aid," *The Tech*, September 21] We find this disturbing. Since the AFSC and its branch group, the New England Yearly Meeting, are in *The Tech's* words "...involved in many other politically sensitive issues," it is quite possible that the AFSC's political positions may cause a moral affront to the potential re-

ipient of CAN money similar to that which convinced him or her to refuse to register for the draft. This affront may be sufficient to compel this potential recipient to refuse the money offered on moral grounds.

Taking into consideration that the CAN's original motivation was to oppose the denial of financial aid based upon one's political or moral beliefs, we urge the CAN to reconsider its decision in order to avert a possibly self-defeating policy.

Judith Fleischman '85  
Robert Sanner '85

### Appreciates comments on art

To the Editor:

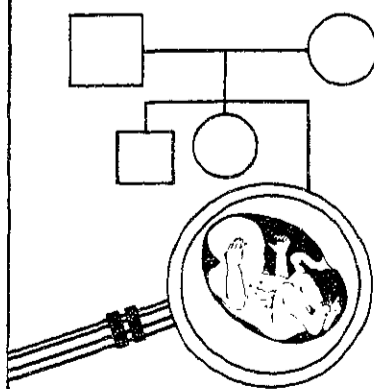
In response to Kimberly B. Sklar's column ["Beautiful art does not exist at MIT, Sept. 25]:

Kim, as a student representative to the Committee on the Visual Arts, as well as one who, along with Next House Art Committee Chairman, Michael Bernard, happened to have chosen the two particular art pieces mentioned, allow me to thank you. The fact that those two pieces stirred enough emotions to motivate you to write a column in *The Tech* serves to support our choice of works. For the two prints were not meant as much to be liked as to provoke thought. I am there-

fore only glad to read your criticism. As for your skill at football...

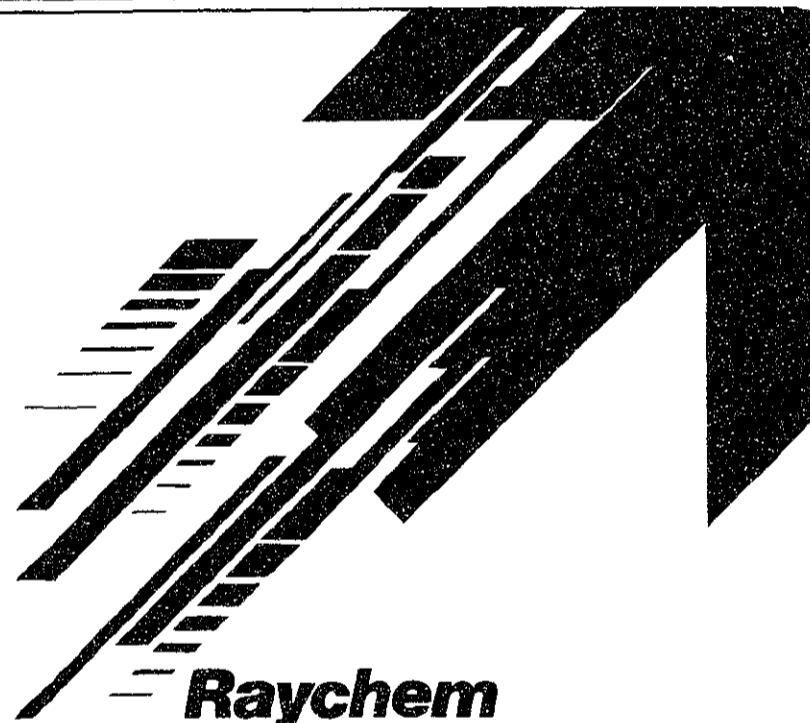
Ishai Nir '85  
Undergraduate Representative,  
Committee on the Visual Arts

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October 21, Building 4-153, 6:30-8:30pm

**On-campus interview session:**  
October 22, 1984

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

**Letters to the Editor** are welcome. They should be addressed to *The Tech*, Box 29, MIT Branch P. O., Cambridge MA 02139, or by interdepartmental mail to Room W20-483. Letters should be typed and bear the author's signatures. Unsigned letters will not be accepted. *The Tech* reserves the right to edit or condense letters. We regret we cannot publish all of the letters we receive.

# Action proposed on EECS enrollment

*Contingency Plan for Addressing the Enrollment Imbalance Problem*

## *Overview and Motion*

The report for the May Faculty Meeting discussed the potential damage to the Department of Electrical Engineering and Computer Science and its programs if steps are not taken to substantially reduce the number of EECS undergraduate majors from current levels. That report also described the various efforts being undertaken to achieve a better balance of enrollment across departments and Schools, and concluded that if these actions do not result in a sufficient decline in EECS enrollment, overt restrictions may be unavoidable.

In helping address and issue that is both difficult and divisive, the Faculty affirmed through a specific Motion in May that: a) if restrictions are to be applied, they should be applied during the admissions process and communicated to students before they accept admission to MIT, and b) the CEP should present a detailed contingency plan along these lines at the September Faculty Meeting.

The proposed course of action, developed in consultation with various faculty, students, and staff, is described in detail in the body of this report. The motion which follows enables this contingency plan to be adopted:

**MOVED BY THE CEP:** a) that the Faculty authorize under the following conditions the admission of first-year students who are restricted in their choice of major: Goals for the reduction in Course 6 undergraduate enrollment over the next several years are stated on p. 2 of the CEP's Report for the 19 September 1984 Faculty Meeting. If these goals are met, then no restrictive action will be undertaken. The Committee on Undergraduate Admissions and Financial Aid (CUAFA) will have the responsibility for assessing whether the goals have been met and for authorizing specific restrictive action as necessary, with these limitations on time: Restricted admissions could be initiated only for the class entering MIT in 1985, in 1986, or in 1987, and, if restricted admissions is initiated for one of these classes, such restrictions could be applied to no more than the subsequent two entering classes without further vote by the Faculty.

b) that restricted admissions be pursued in accordance with the following general framework: If restrictive action is found to be necessary, then a portion of admitted students will be offered admission without the option of majoring in Course 6. The Director of Admissions will determine the number to be admitted with this restriction in order to meet the stated enrollment goals, and shall be responsible, under general principles specified on p. 4 of the Report, for designating those who are to receive restricted admission and for communicating the decisions appropriately to those applicants admitted with and without restriction.

and c) that the Committee on Undergraduate Admissions and Financial Aid be charged with keeping the Faculty informed regarding the fulfillment of these provisions, including the details of implementation.

## *Conditions for Taking a Restrictive Action*

As discussed in the CEP's report to the Faculty in May, the various models explored by the EECS department heads suggest that 270-290 Course 6 sophomores constitute a reasonable load, consistent with the resources available to the Department.

A phased decrease in EECS undergraduate majors is seen as an appropriate way to achieve the desired stability in total EECS enrollment, provided that sufficient reductions in the number of sophomore Course 6 majors take place — starting the fall of 1984 — to show that real progress toward the necessary enrollment reduction is being made.

The following gradual reduction, from the fall 1983 sophomore enrollment of 380 to the desired steady state, is proposed as a condition for avoiding a restrictive action on enrollments:

Fall 1984: 350 sophomores (entered fall 1983) [Fifth week counts]

Fall 1985: 310 sophomores (entering fall 1984)

Fall 1986: 270 sophomores (to be admitted spring 1985) — steady state

Even with these reductions in the number of sophomores, the total undergraduate enrollment in Course 6 will remain above the 1983-84 level of 1149 for two more years, and will not reach a steady state 900-950 until the fall of 1988. Inability to meet these benchmark enrollment levels (which, of course, depend upon specific assumptions that have been made about available resources) would provide evidence that the various non-coercive efforts being undertaken are not sufficient to achieve the necessary reductions.

The Committee on Undergraduate Admissions and Financial Aid, assessing EECS enrollments in the context of the benchmark levels and other available information, would decide on behalf of the Faculty whether the restrictive action described below should be implemented. CUAFA's decision would be reported to the CEP and to the Faculty.

This year, a decision by CUAFA regarding the need for a restrictive action should be made by the first week of October, so that following the Faculty vote on the overall contingency plan in October the action could be applied to the class entering MIT in the fall of 1985, if necessary. CUAFA should make a decision regarding the class entering in 1986 (and subsequent years) as early as possible in order that the Admissions Office be given adequate lead time if any restrictions are to be applied. The tentative choices made by freshmen in early May can serve as a guide in this decision.

## *Proposed Restrictive Action*

As discussed in the report for the May Faculty Meeting, the specific restrictive action used should, as a general guideline, *make the least perturbation in the admissions process and on external perceptions of MIT.* The current admissions process has worked well, and therefore we would like the proposed process to appear "normal" to as many people as possible. It also is important that the action can be simply and effectively communicated to prospective students, and that it take into account the limited information students have as they make their decisions about colleges.

Different ways of placing restrictions during the admissions process were considered. Many of the possibilities, such as establishing a separate application procedure for those students wanting to major in EECS, are not consistent with the preceding guidelines.

The restrictive action being proposed is to admit, as part of the normal admissions decision process, some students who are not given the option to major (or double major) in Course 6. Most admitted students would receive the usual admissions letter, which would allow them the same flexibilities in choosing majors as currently. The proportion of students who would receive restricted admission is expected to be under one-quarter. The proposed type of restrictive action keeps the process primarily internal to MIT, leaves most students unaffected, and thereby introduces a relatively small perturbation in the current admissions system. In fact, the restrictive action can be phased out in a continuous manner as other longer-term means are developed to address the enrollment imbalance. The proposed approach does not require that students declare a choice of a major at the time of application.

In order to understand more specifically what is being proposed, it is essential to have a clear picture of the *current admissions process.* It is important to remember that current admissions judgements result from a dynamic decision-making process, involving faculty and staff, that is based on a wide variety of different types of information. The process results in admissions *decisions*; it does *not* lead to a linear ranking from which a given number of students is admitted and the next several hundred are put on a waiting list.

Each applicant's folder is read by two people (usually one faculty and one staff) and condensed on a Summary Card; a Personal Rating (PR) is assessed by each reader based on a judgment of the applicant's personal qualities and achievements. A Scholastic Index (SI) is calculated based on high school grades, rank in class, and College Board scores. During the final selection process, the applications are organized on a table in a matrix whose cells are defined by ranges of the SI and PR indicators; Figure 1 provides a schematic of how applicants, as well as those admitted, distribute over the matrix. The Summary Cards (and sometimes the folders) in each cell of the matrix are reviewed by faculty and staff members, and tentative "admitted," "wait list," and "no" decisions are made for the individuals in each group. Continual adjustments are made in this dynamic process until the appropriate number of students is admitted (or put on the waiting list) and the decisions appear consistent and coherent.

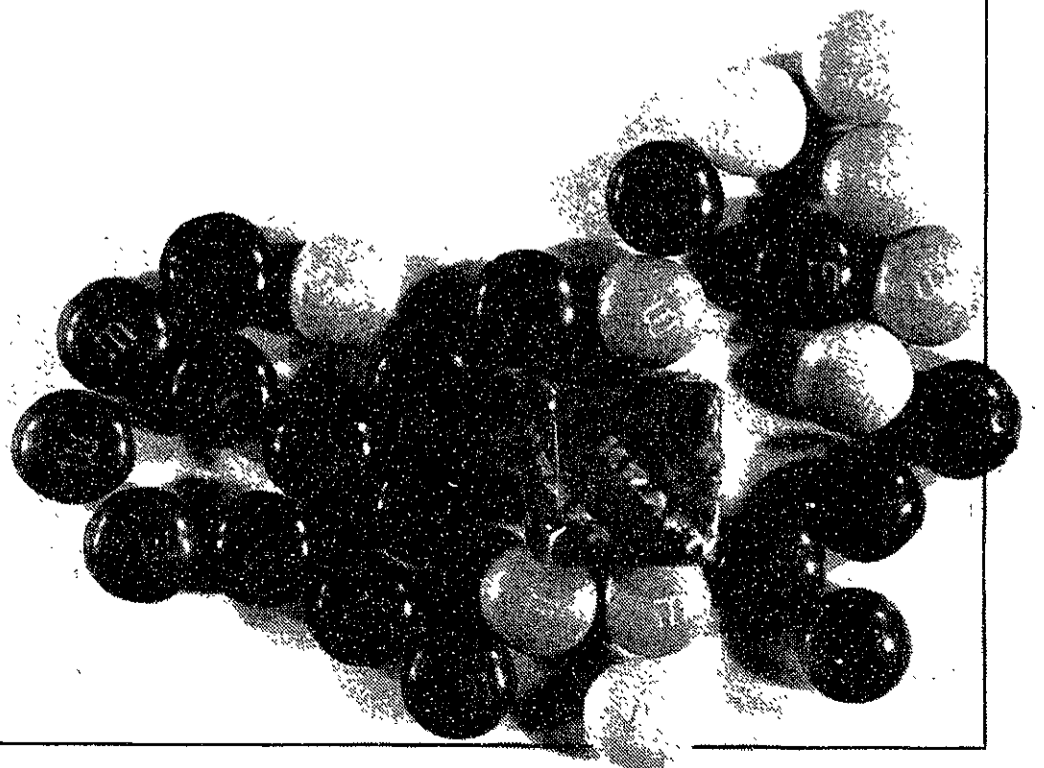
Under the proposed restrictive action, the admitted class as a whole would be selected in the manner described above, but a fourth kind of outcome, "admitted with restriction," would be included in the process as well, as outlined later.

The admissions indicators (SI and PR) are useful as rough guides to organize the overall decision process, but the Admissions Office is sensitive to the limitations of these quantitative measures. Relative academic success at MIT is determined by a wide range of factors (many of which become important after students enroll at MIT) and cannot be predicted very precisely on the basis of these admissions indicators. The human judgements that are made in the selection process with respect to the academic background, potential, personal characteristics, interest, and other nonquantitative aspects of each applicant are essential in admitting a diverse class of high caliber. Such judgements are important in doing justice to the complexity of the task, including dealing with the imperfect nature of the information of each student. Thus, it should be no surprise that not everyone with the higher SI and PR indicators is admitted, and that admitted applicants are distributed across the matrix with no sharp cutoff. For similar reasons, the proposed restricted admissions will be distributed across the matrix cells.

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**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.

**Monday, Oct. 1**

**Beth Israel Hospital's Back Pain School** teaches back pain sufferers how to manage their pain. Participants learn simple techniques that soothe discomfort. New sessions begin now. For more information, call 735-3940.

**Auditions for the Longy School of Music Musical Theatre Workshop** will be held from 7:30 to 8:30 pm, One Follen Street, Cambridge. Auditions by appointment only. For more information, call 876-0956.

**Tuesday, Oct. 2**

All students and faculty are invited to the first meeting of the **MIT Student Chapter of the International Cogeneration Society**. The meeting will be held at 5:15 pm in the Walker Lounge, Bldg 66, 2nd floor. For further information call John Malloy or Prof. Richard Tabors at x3-9032.

**Wednesday, Oct. 3**

Are you interested in forming a student committee on the ARTS? Then come to the first meeting of the **Student Committee for the Arts**. 7:30 pm in the Jerome B. Wiesner Student Art Gallery (second floor of the Student Center). For more information contact Alison at 3-4005 or Hyun-A at 491-0630.

**Thursday, Oct. 4**

A seminar on **Multichannel MDS: Wireless Cable?**, with speakers Howard Klotz, Contemporary Communications, and Peter Lemieux, Information Architects, will be held in the Bush Room, 10-105, MIT. For further information, call 253-3144.

A career workshop on "**Translating a Liberal Arts Degree Into a Job**", sponsored by the Jewish Vocational Service, will be held from 7:30-9:30 pm at Gosman Jewish Community Campus, 333 Nahanton Street, Newton Centre, MA. Fee is \$15. To pre-register, please contact Meryl Glatt 723-2846 or Emily Kirshen 965-7940.

**Friday, Oct. 5**

A forum entitled "**The Nicaraguan Elections**", featuring Kent Norsworthy, a Managua-based US journalist, will be held at 7:30 pm at the Tower Auditorium, Mass. College of Art, on Huntington Ave, near RCC, Boston. Sponsored by Frontline. \$3 donation; child care available. For information, call 247-4110.

**Tuesday, Oct. 9**

**Beth Israel Hospital's Mind-Body Group Program** can teach you to manage your stress by using the relaxation response, awareness training, and exercise. New groups begin today. For more information, call 735-3154.

**Wednesday, Oct. 10**

**Beth Israel Hospital's Quit Smoking Program** helps participants master the art of controlling the urge through hypnosis, relaxation techniques, and the use of new Nicorette gum. New groups begin today. For more information, call 735-4735.

**Monday, Oct. 15**

**Teach an adult to read.** If you have just 2 hours a week to spare you can become a volunteer basic reading or ESL tutor and help one of Boston's 100,000 illiterate adults learn to read. **The Adult Literary Resource Institute** is offering tutor training from 6 to 9 pm at 625 Huntington Avenue, Administration Building, Room 210 to persons interested in volunteering at one of the 15 learning centers serviced by the Institute. No prior teaching experience is required — just a high school diploma and a desire to help. Call Sandra Johnston-Smoake at 232-4695 or 734-1960 ext. 112 for details.

**Tuesday, Oct. 16**

A career workshop on "**What Am I Worth? Negotiating Your Salary**", sponsored by the Jewish Vocational Service, will be held from 7:30 to 9:30 pm at Gosman Jewish Community Campus, 333 Nahanton Street, Newton Centre, MA. Fee is \$15. To pre-register, please contact Meryl Glatt 723-2846 or Emily Kirshen 965-7940.

**Monday, Oct. 22**

**Beth Israel Hospital** is offering a new **therapy group for women who have been sexually assaulted**. The session will begin at 6 pm and will meet weekly. For

**Announcements**

Any citizen of the United States who is a Massachusetts resident and who will be 18 years old by election day may **register to vote** in the Commonwealth. Massachusetts and out-of-state students living in college dormitories may register to vote. **The registration deadline for the November election is October 9, 1984.** For questions about voter registration, contact Constance Navin, Elections Division, Office of the Secretary of State, Boston, MA 02133. Or call 727-2828 or 1-800-462-VOTE, a toll-free voter information hotline.

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Room 4-231

### INTERVIEWS

Wednesday, October 3, 9am-5pm  
Placement Office  
Room 12-170

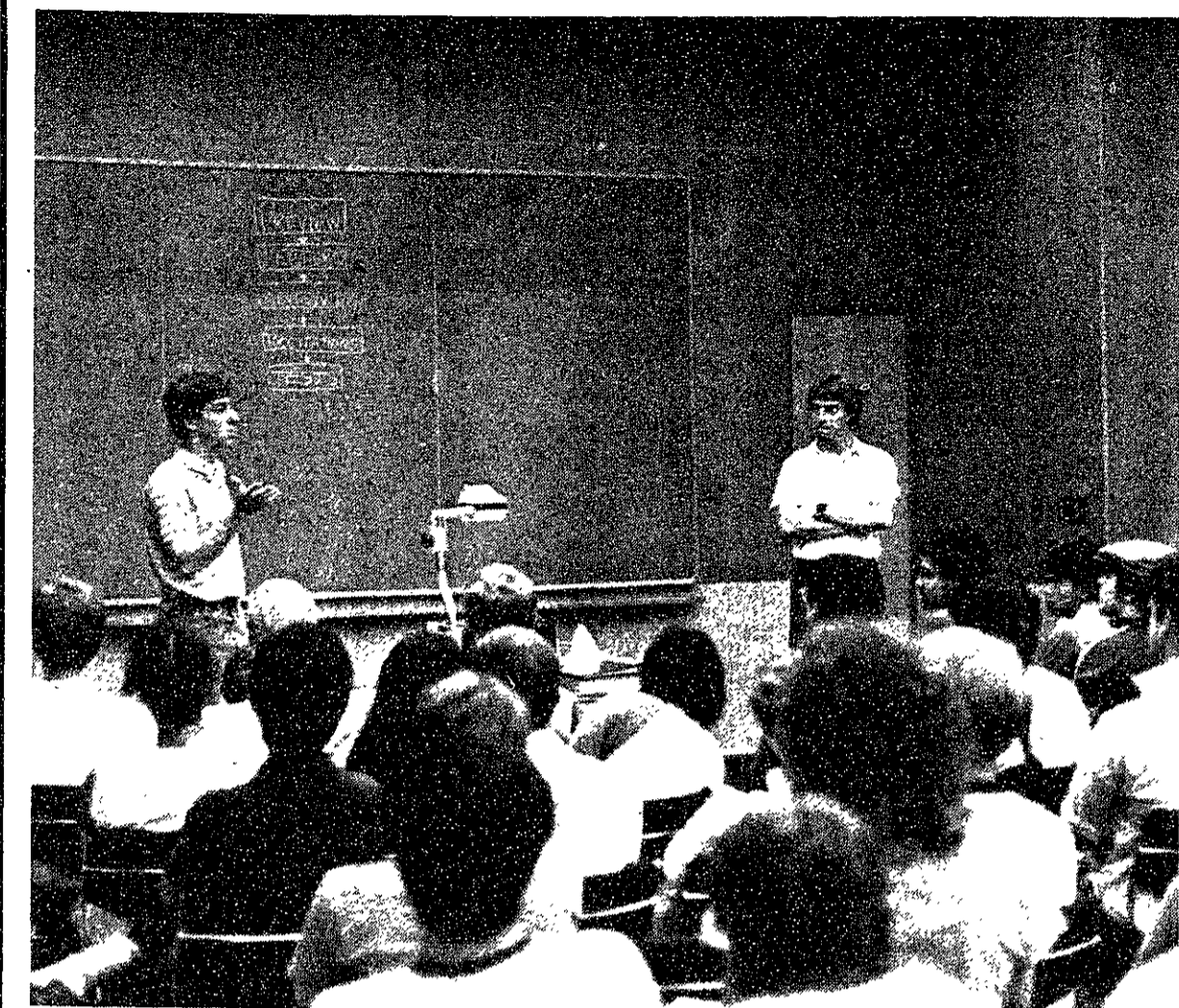
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Tech photo by Sidhu Banerjee

Gary Blackwood '86 and David DiPietro '86 offered helpful hints to about 180 freshmen last Tuesday during a lecture on "Survival with Style" organized by the two juniors with guidance from the Undergraduate Academic Support Office.

## Liberal arts help engineers

By Amy Sommer

MIT students are in demand in the job market, but they should broaden their curriculum, according to Robert K. Weatherall, Director of the Office of Career Planning and Placement.

"Firms tell us that MIT students do well," Weatherall said. "They come recruiting here [and] on the whole, cut us out last, or near last, if their recruiting office budget gets cut."

A student's major, however, "doesn't matter much if the student has explored other areas," Weatherall said.

It is important for the student to balance his curriculum and explore practical applications of it, he said. "For example, architecture majors [who take] economics or explore MIT's new real estate development program are proving valuable to firms who [finance] real estate investments."

Weatherall said students benefit from taking liberal arts courses here or at Wellesley, because "they give a broader perspective, make one more articulate, and improve [one's] understanding of

people. All of this shows up in an interview," he explained.

For liberal arts majors, Weatherall suggested taking technically oriented courses. "Economics is an obvious one. Economics is quantitative and analytical; it is [a field important] to hiring companies . . . For chemistry [majors], computer science is an obvious one."

A junior year abroad is another "wonderful complement" to an MIT education, he said.

"Engineering students aren't nerds," he said. "In the old days more engineering students were nerds, they wore white socks with dark suits. Now, they are wonderfully in tune with the outside world."

The companies are "finding people [at MIT] that you would expect to find at liberal arts colleges. More and more organizations are discovering what bright and useful people MIT students are, banks and consulting firms as well as the standards like IBM," he observed.

Weatherall said professional jobs are important: "Find a pro-

fessional job, at least one, at the end of junior year. The more professional [experience] the better."

"There are chemistry majors who go all the way to a Ph.D. and don't have experience in industry," he said. "Half of them will go into industry eventually. They graduate after eight or nine years and then question: 'Is industry the place for me?'"

Questions like these point to the need for a student to translate his academic enthusiasm into practical pursuits. Weatherall said he would, for example, advise a psychology major to "get interested in organizational psychology for management."

The more students resist exploring practical applications of their majors, "the harder it is to show the student that there are practical topics and concerns which are exciting to think about," Weatherall explained.

"Sometimes teachers who are excited about practical things can get students excited over practical aspects of the subject," he said.

## Sr. House discusses drug policy

(Continued from page 1)

the tutor would be expected to direct the student to appropriate support services in lieu of bringing the matter to the housemaster.

Under the proposed policy, a tutor would still be allowed to keep any cases confidential where a student comes to him with a drug-related problem, according to Keyser.

Sherwood said a certain amount of discretion would be maintained within a house. The Institute, "hires [graduate tutors] to use their own judgement," he commented.

Graduate tutors would be required, however, to take "some action" if they are aware of a specific drug incident, Sherwood said. The tutors "would be liable for suits, as would MIT, if they silently condoned such an action."

Some students approved the proposed policy's sharper delineation of the student's position with respect to drug issues, while others objected to the specific language of the proposal and suggested an increase in the num-

ber of warnings students would receive before being referred to the Dean's Office.

Disciplinary action by the Dean's Office would include one or more of the following: compulsory attendance at Institute drug education programs, a year's suspension from the house or the residency system, or *persona non grata* status, which would bar the student from visiting the house.

More serious infractions, such as drug dealing or the possession of large quantities of drugs, would result in the immediate notification of the Dean's Office, the

Committee on Discipline, and city or state legal authorities.

Sherwood denied the existence of any recent drug-related suits brought against MIT, but said "there have been a lot of close calls to date."

The Dean's Office and the MIT Campus Police are investigating possible action to curtail the sale of nitrous oxide to students by an industrial grade nitrous supplier in Burlington, Mass., according to Sherwood.

Legislation may also be introduced in the Massachusetts State House banning industrial grade sales to unauthorized purchasers.

## Housing Office has staff changes

By Charles Jankowski

MIT's Department of Housing and Food Services has made several changes in its operational staff in the last few months, according to Gene Brammer, Director of Housing and Food Services.

Brammer recently hired Larry Maguire to replace George E. Hartwell as Associate Director of Housing and Food Services. Hartwell left the position at the end of August after four and one-half years in the department.

Maguire had been an Administrative Officer for MIT's Research Laboratory for Electronics since 1982.

Assistant Directors for Housing Richard Sorato and Judy Douglas also recently left the department.

Douglas left her position in September to become executive officer of the residence section of the Office of the Dean for Student Affairs.

Food service unit manager Margaret Rodger and East Campus house manager Norman Magnuson, also recently left their positions, according to Brammer.

Bob Ramsey replaced Rodger as the food service manager at 500 Memorial Drive. Ramsey formerly worked with food production in the Student Center.

John Rutledge, assistant operations manager of the Department of Housing and Food Services, and Susan Lovich '85, East Campus desk captain, are responsible for the East Campus house manager's office until a permanent replacement can be found for Magnuson. "We should be getting [a new manager] next week," Lovich said.

The numerous personnel changes over the summer left the department short-staffed. Brammer said, "Everybody tried to pick up the slack where they could."

"This is a very human resource intensive department," Maguire said, "and we've really got to get to know all of the people. We're looking at the organization to simplify and clarify the organizational makeup."

Future changes in Housing and Food Services will be implemented after a careful study of the department, Maguire said.

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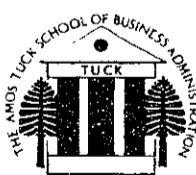
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## ARTS

## Sophomoric

*Lisa Birnbach's College Book*, by Lisa Birnbach; Ballantine Books; 515 pp.; \$9.95.

"This is a great crowd," Lisa Birnbach said when she appeared on WCVB-TV's *People Are Talking* show Tuesday. "I love show business." Lisa Birnbach is in show business. She is not in the business of accurate reporting, nor is she in the business of college counseling. You will notice that the book is carefully titled a "college book" rather than a "college guide," but that won't stop many people from taking it far too seriously.

*Lisa Birnbach's College Book* is not about college. It is a compilation of superficial observations by Lisa Birnbach, perhaps the most notorious exploiter of the youth culture since Timothy Leary. Between this book and her *Preppy Handbook*, Lisa Birnbach will have made enough money by the time she is 30 that she won't have to worry about being too old to be taken seriously on the subject of campus sexual mores.

This is a book about "campus life," in the sarcastic and leering senses of the phrase. You won't find out how many degree requirements you have to take or how close to downtown a college is from this book; you will find out how freely the campus infirmary dispenses birth control and where you can get the best pizza. Sensationalism and provincialism are the watchwords.

Birnbach got her information by distributing questionnaires to student newspaper

offices, probably with the same results students in management labs get when they try to get dorm residents to fill out surveys: most of them get thrown out and at least half the answers on the few that find their way home are facetious. She also claims to have visited every one of the schools (and an additional 90 that didn't get reviewed) over the three years she spent on the project; yet she neither spent enough time to observe properly, nor publicized her presence so that students could contact her.

You will appreciate how little time Lisa Birnbach must have spent at MIT, and, by induction, at the other 185 colleges she writes about, when you find out that "few people watch football, but many people play Dungeons and Dragons on the computer" and that financial aid is "no worse than anywhere else." You might also be surprised to hear that Helmut Schmidt is the best speaker brought to campus within living memory (i.e., the last four years) and that MIT graduated photographer John Mili and US Secretary of State George Schultz. (Correct spellings are Gjon Mili and George Shultz.)

Birnbach devotes one of her ten paragraphs on MIT (Brown, her alma mater, got sixteen) to "The Consumer Guide to MIT Men," an article that appeared in *Thursday*, an alternative newspaper here in 1977. Again, she got her information by telling her research assistant to call the *Tech* office and ask for confirmation of the facts. The two of us who were here at the

LISA BIRNBACH'S  
COLLEGE  
BOOK

State by state, school by school,  
the first and only college guide to tell it like it is...

time explained that it was an isolated incident that was neither representative of nor applauded by MIT, and there were more important things she could ask us. "I just have this list of questions I was told to ask," said the assistant. With an attitude like that on the part of the researchers, how can the product be any good?

While this pandering to popular fantasies about what's going on in the colleges is irritating, Birnbach's reinforcement of the MIT stereotype (future Nobel Laureates who will eventually "design the future") is downright dangerous. Birnbach identified MIT's academic program as "the hardest academically" in the United States, and there is the unspoken conviction that because we are pushed very hard and told we can do anything, we can do anything; that we are somehow a different

breed. She even labels one of her sources a "girl genius." Her first words to me when I interviewed her were, "You go to MIT? You must be really smart." That's an unthinking attitude most of us got enough of in grade school.

It doesn't bother Birnbach that high school students are going to take seriously her suggestions that a good roommate is one who has a coffee machine and will lie to your parents and that BU students are promiscuous and Cal Techies don't wash. This book is going to sell like designer ice cream, not like most books do. And that's all she cares about.

*Lisa Birnbach's College Book* may be clever at times, but it certainly isn't accurate. Read it for the one-liners if you think they're funny, but don't let your little brother or sister use it to choose a college.

Diana ben-Aaron

## ARTS MOVIES

## Bad Manners, bad news

*Bad Manners*, directed by Bobby Houston, starring Martin Mull and Karen Black; at the Nickelodeon.

Imagine an orphanage run by a sadistic nun and her slimy henchman, and populated by dozens of unruly, street-wise kids. Sounds like *Annie*, doesn't it? Well, not exactly. *Bad Manners*, opening today at the Nickelodeon, has all of the above and a cute little boy named Mouse: a waif suspiciously similar to Annie. But this is where any similarity to *Annie* ends. *Bad Manners* is billed as a "rowdy, contemporary, off-beat comedy" that lampoons social conventions and upperclass American values. This is a potentially amusing concept, but the humor is poorly executed. The result is an amateurish attempt to satirize American society much as *S.O.B.* poked fun at the motion-picture industry.

The comedy is burlesque: one-liners and gags are aimed at religion, ethnic groups, and the infirm. Unfortunately, the material is weak. The obligatory car chase and food fights lack creativity or imagination. The action moves from one mediocre scene to the next, making the 85-minute run time feel twice as long.

The young cast, picked largely from among the school systems in the Los Angeles area, lack both the experience and skillful direction necessary to make this type of dark humor work. Satirical comedy requires expert clowns and slapstick artists or the tired jokes, obvious puns and stock gags fall flat.

The film is not without its good moments, however. Meeting the Fitzpatricks, Gladys (Karen Black) and Warren (Martin Mull), is like looking in on Muffy and Biffy twenty years after high school and finding out that they're still the same, though perhaps a bit more neurotic. Their home is a melange of Victorian England, post-WWII Chicago, 1960's Vietnam and Computer-age Bloomingdale's. They drive a yellow Mercedes-Benz. Their son Garth (John Paul Lussier) belongs more on the set of *Apocalypse Now* than does Marlon Brando. Their daughter Sarah (Kimmy Robertson) is living proof why "valley kids" never should be allowed to have children: the genes are reinforced.

But when Mull is off the screen, the action drags. The director attempts to deliv-



Martin Mull and Karen Black in *Bad Manners*

er the message, "family is where you find it, and you cannot create an artificial family." The task of delivering this message in an "old comedy" format proves too much for such an inexperienced cast. Thus, the humor fails and the message is lost.

If you're in the mood for mindless fun

that doesn't try to take itself too seriously, try *Airplane*, playing tonight at the Harvard Square Theatre. If you're interested in incisive social satire, wait for *S.O.B.* to return. But unless you find tedious, juvenile humor exciting, *Bad Manners* is not for you.

Matt Giamporcaro

## Good jazz

*Sundance*, Kevin Eubanks, GRP Records.

Guitarist Kevin Eubanks is little known outside the jazz club scene in Boston and New York. To his credit, Eubanks has filled spots backing drummer Art Blakey, trombonist "Slide" Hampton and performed with the funk group Slave. So with his second album as leader, *Sundance*, the guitarist has tried to make a name for himself and an individual sound. The results are mixed.

The album opens with "Sting," a non-descript combination of the early 1970's jazz-rock of Chick Corea, John McLaughlin and the funk of Sly Stone, all of which were early inspirational figures. Eubanks might not be as "original" and "innovative" a recording artist as the inner sleeve might claim, but he is "blindingly fast," and not just up and down scales. The fact that he does this with his fingers (no pick) and includes popping and other percussive techniques on the strings probably makes him an exciting live performer. The effect is more subtle on record, but well worth listening for.

A good portion of each composition is devoted to technical wizardry, tight rhythmic stops (this is a quartet that has experience playing together) and jazz-rock vamps to perform the above over. This indicates that Kevin Eubanks still has some growing to do as a composer. Most songs have few medium-size sections or chord changes that are truly creative and exciting. If only they were developed more. But, hey, after a few listenings these parts really become catchy and found me playing them again and again. Eubanks can display both soul and taste.

The record is best suited for guitarists and 1970 fusion/funk lovers; it might not provide any interest for other record buyers. All the musicians have their chops down pat, particularly Kevin Eubanks and drummer Tommy Campbell, and the fact that the album was digitally recorded does seem to enhance Eubanks' recorded playing. His percussive tone and techniques on acoustic guitar (listen to "It's All the Same to Me") have a real presence on the album.

I'm not sure if I would buy Kevin Eubanks' *Sundance* for its compositional merit, but if the guitarist returns to Boston I'll be sure to check out his performance.

Scott Lichtman

## ARTS

## Film series masterful

The Italian Masters, at the Brattle Theatre, September 28-30; Rome, Open City (Rossellini); 8½ (Fellini), Oct. 1, 2; Senso (Visconti); Paisan (R.), Oct. 3, 4; Voyage to Italy (R.); La Terra Trema (V.), Oct. 5, 6; La Strada (F.); Two Women (De Sica), Oct. 7, 8; La Dolce Vita (F.); Miracle in Milan (D.S.), Oct. 9; Accatone (Pasolini); Big Deal on Madonna Street (Monicelli), Oct. 10; General Della Rovere (R.); Umberto D. (D.S.), Oct. 11; Rocco and his Brothers (V.), Oct. 12 through 15; The Bicycle Thief (D.S.); I Vitelloni (F.) or The Conformist (Bertolucci).

Today a festival of Italian film starts at the Brattle Theatre. Seventeen movies are to be shown, (almost) all dating from the first 20 years after World War II.

There is no shortage of famous names in this series; indeed, few of the movies shown would nowadays be denied a place among the very best ever made. Many of them had an enormous impact on the subsequent development of the cinema. Consequently, it is hard to make a selection; all of them are worthwhile.

A relatively large space is accorded to Neorealist film, the predominant move-

ment during the first years after the war. Both Rossellini and De Sica are represented with four works, among them such all-time masterpieces as *Roma*, *Città Aperta* and *Bicycle Thieves*. These movies are animated by a sudden awareness of the tragedy and heroism of ordinary people which has barely lost its freshness in the forty years since they were made.

People who have never seen *La Strada* should not miss this opportunity. In this 1954 Fellini classic, Giulietta Masina plays a girl sold by her mother to a traveling strongman (Anthony Quinn); after brutally abusing her, he finally drops her along the road, realizing too late what she meant to him. In the struggle of the naive girl with the hard world around her; the themes of loneliness and affection are treated in a superb way. Similar issues, but in an entirely different framework, are at stake in Fellini's *Dolce Vita* (1961), where Marcello Mastroianni as a gossip columnist discovers the doubt and emptiness hidden behind the facade of Rome's high society. (In case you don't appreciate the moral of the film, there's always Anita Ekberg bathing in the Trevi Fountain.) Don't forget *8½* (1963) either.

Luchino Visconti is present with *Senso* (1953), a tragic love story with lavish display of 19th-century scenery and costume. The other side of this aristocrat by descent shows up in *La Terra Trema* (1948), the struggle of Sicilian fishermen treated according to the Neorealist aesthetics, and the gorgeous *Rocco e i suoi Fratelli* (1961), in which the traditional scheme of brothers with different characters and destinies is used to paint the vicissitudes of Southern Italian families emigrating to the industrial North.

Many major masters produced by the Italian cinema are barely represented in this series if at all, and the article in its official title looks somewhat out of place. But in a sense, it is already a pity that a single festival features several directors each of whom would surely merit a festival of his own, especially since few people probably feel like seeing five movies in one week.

Make the best out of it, however: place at least some of the movies on your agenda. Who knows how long it will take before you get another chance to see this fantastic material?

Michael Bos



## ON THE TOWN

## Friday, September 28

As all cognoscenti know, Boston's the place to go for Baroque. Boston has established itself as America's Early Music center. Quite apart from the Springtime Early Music Festival, there are many highly talented local groups giving concerts year round. **Banchetto Musicale** starts its season tonight with the first in its series of the complete concertos of J. S. Bach in celebration of the composer's tercentenary. At 8 pm at the First and Second Church, 66 Marlborough St., Boston. Concertos for Harpsichord in F minor, Violin in A Minor, Harpsichord in D Minor and Two Harpsichords in C will be performed. Daniel Steptner, one of this country's finest baroque violinists will be soloist in the Violin Concerto. Admission \$8.

Of course, you don't have to leave technological territory to get your booster culture immunization: **Paul Orgel**, pianist, plays Bach, Schumann and Schubert tonight at 8:30 pm in Kresge; free.

If it's impossible for you to survive a weekend without a shot of Mozart, the film of the decade, **Amadeus**, continues at the Sack Charles.

The Museum of Fine Arts shows two films by Luis Buñuel: **The Young One**, an attack on American racism in the South, at 5:30 pm and **Los Olvidados**, a peek at the Mexican teenage underworld, at 8 pm.

If you're really into Ahtsy films you could take off to the **Hahvahd Film Archive** for **Sartre par lui-même** at Carpenter Center tonight and tomorrow at 7:30 pm.

Jeeves is taking charge at the Hasty Pudding Theatre, Harvard. Edward Duke's one-man show should delight the Wodehouse addict, mad dogs and Englishmen alike. At 8 pm tonight and tomorrow. Admission \$10 for students, \$18 for others.

## Saturday, September 29

The **Pro Arte Chamber Orchestra**, David Hoose guest conductor, will perform Beethoven's Third Symphony, *Eroica*, at 8 pm in Sanders Theatre. Pieces by Richard Cornell and Schubert/Webern are on offer too. If you haven't discovered Sanders Theatre yet, it's worth the trip for the architectural interest alone.

If you get lost on the way to Sanders and missed last night's **Banchetto** concert, you can get a re-run at the nearby Longy School of Music, also at 8 pm.



Georg Friderik says "get the Handel on Baroque" in Boston.

If the play's the thing, try today's opening of Cole Porter's **You Never Know** at the Huntington. Perhaps not the ultimate in intellectual excellence (the story concerns a baron and a butler dressing up as each other in pursuit of their respective loves), it should make for good humor and great schmaltzy music too.

If you care for something a little more intense, try the SCC Midnight Movie, **And Justice For All**. Showing tonight at 11 pm in Lobdell.

Finally, if come evening the Lobdell indigestion syndrome is too painful, or if that problem set you've been struggling with

sends you hallucinating into the surreal, just remember that reality can be suspended outside Technology's walls too and take off for **Illusions**, a one-man show of mime, magic and sound at the Blacksmith House, 56 Brattle St., Cambridge at 8 pm.

## Sunday, September 30

MIT students, lucky people, get into the Museum of Fine Arts free. They also get discounts for MFA concerts. At 3 pm today you can hear Jeffrey Gall singing Buxtehude, Vivaldi and Handel with the **Boston Museum Trio**.

Assuming the week-end's concert going

hasn't rendered you completely Baroque, the **Juilliard String Quartet** will be performing Mozart viola quintets in Jordan Hall at 3 pm and the New England Chamber Orchestra will play music of Purcell-Britten, Mozart and Bloch at the Gardner Museum, also at 3 pm.

All of these afternoon concerts will end in time for you to get back to MIT for the dedication of the new Technology Harpsichord. It's back to Bach for the Concerto in C minor for two harpsichords, Toccata in D, Sonata in B minor for flute and harpsichord and the Brandenburg Concerto No. 5. MIT organist, James David Christie will be on hand to perform ceremonies aided and abetted by flautist Fenwick Smith and violinist Gerald Elias, both from the Boston Symphony Orchestra, together with harpsichordist John Finney. At 8 pm in the Chapel.

## Monday, October 1

The Muir String Quartet performs tonight at 8 pm in the Boston University Concert Hall.

## Tuesday, October 2

New England Conservatory is good, and many New England Conservatory concerts are free so, if you've got nothing better to do at noon today, why not whizz off for three Brandenburg Concertos in Jordan Hall?

## Wednesday, October 3

George Russell, jazz theorist and performer, will present a series of lecture/workshops on the Lydian Chromatic Concept of Tonal Organization at the Longy School of Music beginning today from 7 to 9 pm. The five sessions continue on alternate Wednesdays.

## Thursday, October 4

If you didn't get your fill of Baroque over the weekend, here's another chance: Susan Brodie, soprano, Jane Lewis, baroque oboe, Shannon Snapp, baroque cello and Peter Sykes, harpsichord, will perform in the MIT chapel at noon.

Of course, if you have had your fill of baroque, **George Winston** will be performing tonight in Symphony Hall. Tickets are \$12.50 and \$14.50 and are available at the Symphony Hall Box Office (266-1492), Out of Town Tickets in Harvard Square, and many more places. Call the box office for details.

Soprano **Lucy Shelton** performs Schubert, Messaen, Tchaikovsky and Gottschalk at Jordan Hall, 8 pm.

Jonathan Richmond  
Ronald E. Becker

## notices

### Tuesday, Oct. 23

A panel on "Careers in T.V. and Radio Broadcasting", sponsored by the Jewish Vocational Service, will be held from 7:30-9:30 pm at Gosman Jewish Community Campus, 333 Nahanton Street, Newton Centre, MA. Admission is \$5. For more information, please contact Gail Liebhaber at 965-7940.

### Sunday, Oct. 28

WBZ's 3rd Annual Halloween Lite Monster Dash Road Race will start at 12 noon at Jimbo's Fish Shanty. All proceeds will benefit Children's Hospital. Also, immediately following the race, there will be a "Dash Bash" celebration party for the runners. For more information, please contact Donna Howard at 926-8523.

### Tuesday, Oct. 30

A career workshop on "Interviewing: For Information Only", sponsored by the Jewish Vocational Service, will be held from 7:30 to 9:30 pm at Gosman Jewish Community Campus, 333 Nahanton Street, Newton Centre, MA. Fee is \$15. To pre-register, please contact Meryl Glatt 723-2846 or Emily Kirshen 965-7940.

### Ongoing

Students and faculty are cordially invited to flex their vocabularies at the **Boston Scrabble Club** — any Monday evening in the Teachers' Lounge of the Jackson-Mann Community School, Union Square, Allston. The club features "social Scrabble" for nervous newcomers, as well as officially-rated competitive play for the real addict. Club hours are 6:30 to 9:30 pm. For more information, contact P.G. Kaufmann at 784-5325.

### Announcements

**National College Poetry Contest**, Fall Concours 1984, is offering \$200 in cash and book prizes and free printing for all accepted poems in the American Collegiate Poets Anthology. For more information, write International Publications, P.O. Box 44044-L, Los Angeles, CA 90044.

The **MIT Speech and Debate Society** is sponsoring a **Fall Speech Contest**. Winners will receive cash prizes. We are now canvassing the MIT student community for interests and suggestions. If you have the slightest interest in talking for fun and profit, call Lisa x5-8922, Nick x5-6352, Meryl x5-6354, or Christine x5-8360.

The **Christian Science Monitor** is sponsoring an **essay contest** challenging its readers to come up with possible scenarios that could lead to world peace in the next 25 years. Students and faculty at colleges and universities around the country are also invited to participate. Participants might consider such factors as economic conditions, the role of moral leadership and world armaments. Essays will be judged on the feasibility of the ideas they contain and will be expected to show a knowledge of the framework of international relations in the world today and the process by which those relations are bettered. Entries of not more than 3,000 words in English, French, German, or Spanish will be accepted. The best three will be printed in The Christian Science Monitor. Entries should be post-marked not later than December

31, 1984 and sent to PEACE CONTEST, The Christian Science Monitor, One Norway Street, Boston, MA 02115.

The **National Research Council** announces the **1985 Postdoctoral, Resident, and Cooperative Research Associateship Programs** for research in the sciences and engineering to be conducted in behalf of 21 federal agencies or research institutions. Approximately 250 full-time associateships will be awarded on a competitive basis for research in chemistry, engineering, and mathematics, and in the earth, environmental, physical, space, and life sciences. Most of the programs are open to both US and non-US nationals, and to

both recent Ph.D. holders and senior investigators. Awards are made for one or two years with stipends beginning at \$23,350 a year for Ph.D.'s and an individual determination for senior associates. Postmark deadline must be no later than January 15, 1985. Information on specific research opportunities and federal laboratories, as well as application materials, may be obtained from Associateship Programs, Office of Scientific and Engineering Personnel, JH 608-D3, National Research Council, 2101 Constitution Avenue, N.W., Washington, D.C. 20418, (202) 334-2760.

For runners looking forward to the numerous marathons this fall

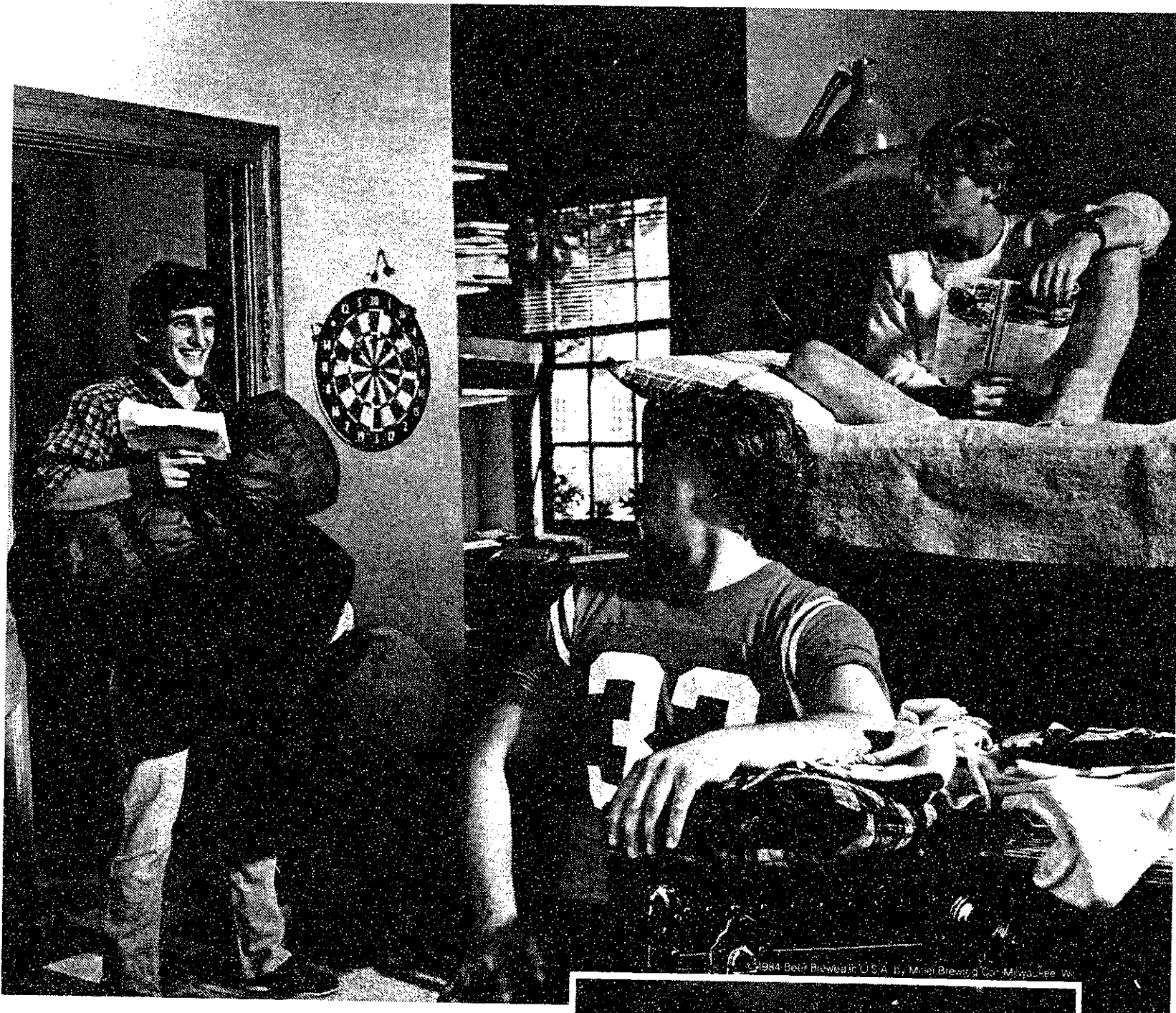
but not the arduous solo training sessions, the **MetroParks Running Center in Boston** has an answer. On Sundays at 9 am, runners training for marathons can get together and run long distances of 15 to 22 miles. Open Monday through Friday from 7 am to dusk, the Running Centre offers changing rooms and showers free of charge. For further information, call 523-9746.

The annual **Harry S. Truman Scholarship Awards** will be made to current college sophomores in good standing who are US citizens or nationals. Two MIT students will be nominated by the Institute. The awards will be for \$5000 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, Room 3-234, x3-7752, NOT LATER THAN OCTOBER 5, 1984.

Notice to the Class of 1987 and Transfer Students who entered MIT in the fall of 1983: If you have not yet completed Phase I of the **Writing Requirement**, you may do so by submitting Spring '84 papers until **add date**, October 12, 1984. Remember that you must first pick up a cover sheet from our office, Room 3-231, x3-3039, and have it signed by the instructor for whom you wrote the paper. Both paper and cover sheet should then be turned in to the committee.

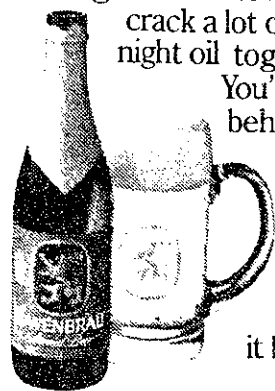
# To every roommate about to become a friend.



Right now, about the only thing you have in common is the same room. But you and those strangers who moved in with you are going to crack a lot of books and burn a lot of midnight oil together.

You're going to discover the people behind the nametags, the ones inside the roommates. And who knows? Before the term is over, your roommates may very well turn out to be good friends.

To each of you we say, let it be Löwenbräu.



## Löwenbräu. Here's to good friends.

## 1984 marks *The Tech's* twenty-sixth presidential election. Follow the campaign in our pages, as generations of MIT students have before you.

"Four hundred students assembled in Huntington Hall on Monday, Oct. 6 ... A vote for Presidential preferences was taken, and the result was: Blaine, 259; Cleveland, 85; St. John, 6; Butler, 1."  
— October 22, 1884

"The list of candidates with the parties which they represent are: Christiansen, Farm Labor; Cox, Democratic; Debs, Socialist; Harding, Republican; and Watkins, Prohibition..."  
— October 19, 1920

"To occupy the crowd until Muskie's arrival, there was a panel of local party officials, all of whom were far past thirty. They were mostly McCarthy/McGovern supporters (before the convention) however, so that most of what they had to say fell on reasonably sympathetic ears."  
— October 25, 1968

### CAREER SEMINAR

*"Careers in International Affairs in Government, Banking and Industry"*

GERARD F. SHEEHAN  
Deputy Director,  
Foreign Service Program,  
Georgetown University;  
formerly Peace Corps Training Officer,  
Central Africa

Tuesday  
October 2

12 noon  
Room 4-149

Sponsored by the Office of Career Services and Preprofessional Advising

IAP wants YOU to lead an activity. Come get details and WIN A FREE IAP T-SHIRT



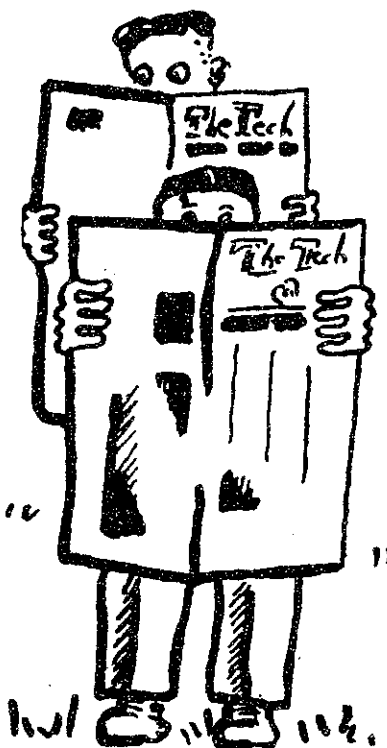
Tuesday, October 2  
11:30 - 1:30 Lobby 7  
(Shirts also on sale for \$5)

## WEST PLAZA SCHEDULING

Applications are now being accepted for the Spring Semester for Kresge Auditorium (primarily days), the Student Center, and the West Plaza Grounds. Applications may be obtained in the Campus Activities Office (W20-345). Below is the chart for deadlines and approval dates.

TIME PERIOD	DEADLINE	APPROVED BY
IAP/SPRING Jan. 1 - May 31	Friday October 12, 1984	Thursday November 1, 1984

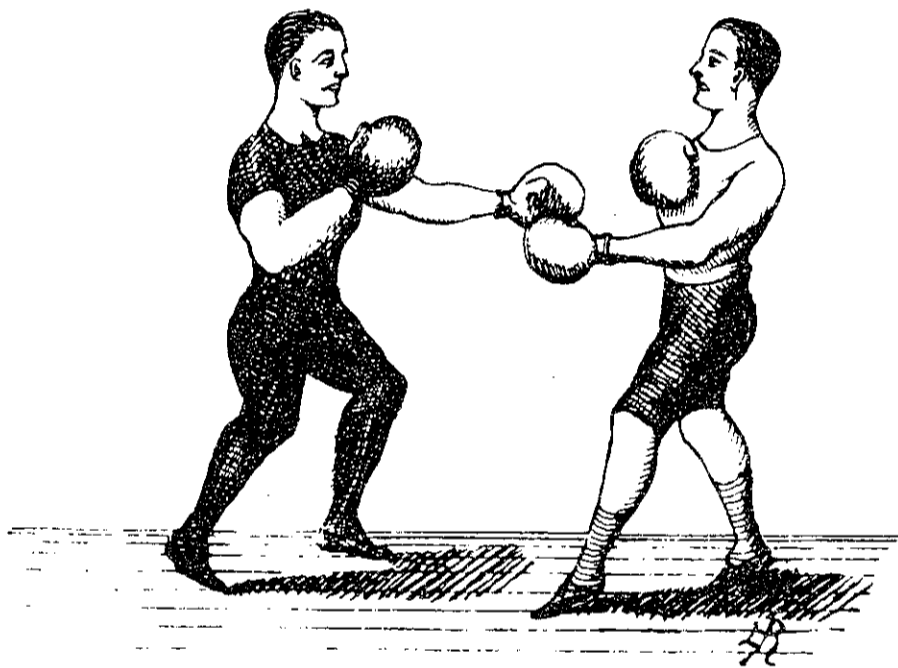
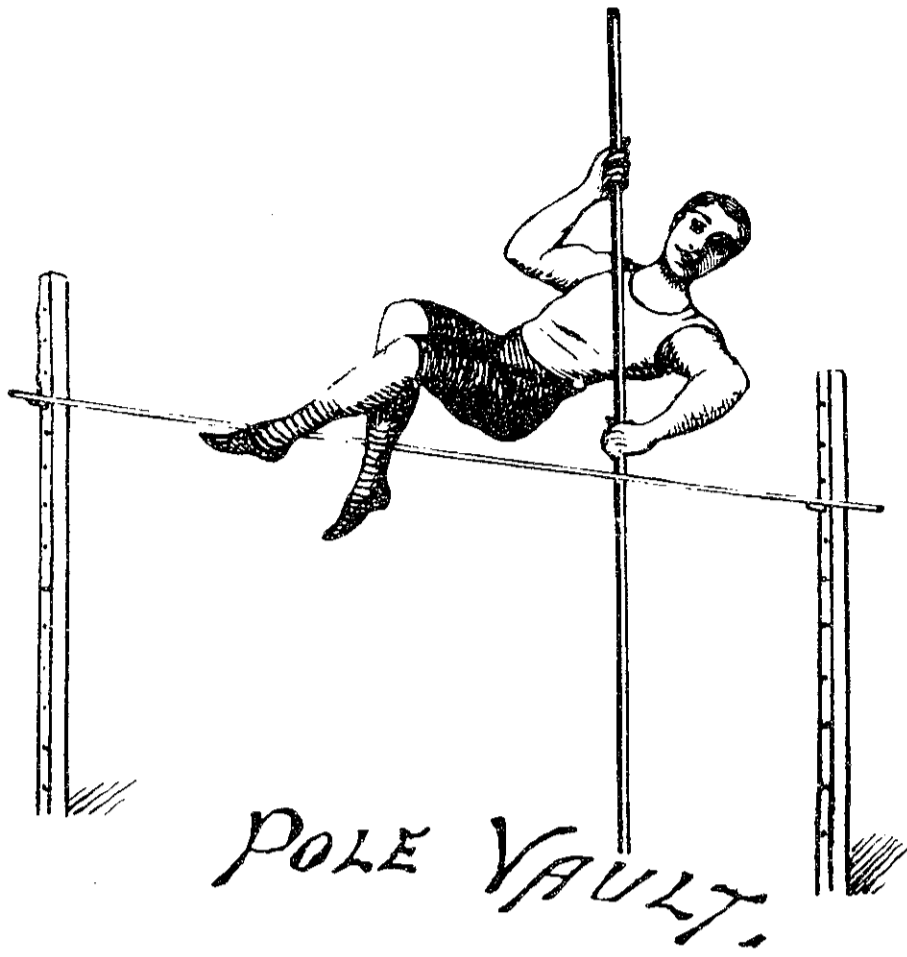
Applications will be accepted on a rolling basis after November 1, 1984.



### LaFlamme Barber Shop

is under new management. We cut the price by three dollars. We do ladies' haircuts by experienced stylists. Open 6 days a week 7:30-6. 21 Dunster St., Harvard Square, 354-8377.

# More than just the news



OUR ARTIST'S VISIT TO THE GYMNASIUM. WHAT HE SAW THERE.

Reprinted from *The Tech*, April 1, 1886.

“Continuous news service since 1881” means more than just reporting the news; *The Tech* has been covering the MIT sports scene for over a century.

The nation’s biggest collegiate sports program deserves the nation’s best collegiate sportswriters.

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# The Tech

Continuous news service since 1881

# notices

## Announcements

**Interested in children?** Teen-agers? Innovative education? The **Cambridge School Volunteers** needs you as a tutor, classroom aide, big brother or big sister, or a mini-course teacher. Work with any age student in any subject. Credit may be available. For more information, call 498-9218.

The **MIT Dance Company School of Boston** presents its ninth year of dance education, offering two fifteen week sessions from September to May. MIT continues its extensive Children's Program for ages 3 to 14, as well as teen and adult classes in modern and jazz. Classes run Monday through Saturday with levels ranging from novice to professional. Aerobics is also offered in the evenings. The School is located at 551 Tremont Street in the Boston Center for the Arts. For more information, please call 482-0351.

The **National Consortium for Graduate Degrees for Minorities in Engineering, Inc. (GEM)** is now accepting applications for its Graduate Fellowship Program which will provide one hundred-fifty awards to minority students in engineering. Candidates for participation must be American Indian, Black American, Mexican American, or Puerto Rican. Each fellowship pays full tuition and fees at a member university and a stipend of \$5000 for the academic year, as well as provides summer employment at a member-research laboratory. Deadline for application material for the 1985-86 fellowship year is December 1, 1984. For further information contact: Graduate Engineering for Minorities, P.O. Box 537, Notre Dame, Indiana 46556.

The **Peace Corps** is offering skill-training for programs utilizing the backgrounds of college graduates with mathematics and science minors. Peace Corps volunteers serve for two years. Dur-

ing their service they receive a generous living allowance, paid travel, training and health care. A post-service readjustment allowance of \$175 per month is paid to each volunteer. For information on Peace Corps service, call 223-6366 or 7366, or write **PEACE CORPS**, 1405 McCormack POCH, Boston, MA 02109

The **General Electric Foundation** and the **Ford Foundation** have made loans available for engineering Ph.D. candidates interested in teaching careers. The loans will be 25% forgiven for each year of full-time service on an engineering or computer science faculty.

Applicants should file a Financial Need Determination Form with the Student Financial Aid Office and Contact Assistant Dean of Engineering for Admin-

istration **Donna R. Savicki** for an interview. For more information, please contact **Dean Savicki** at x3-3294.

The **Huguenot Society of America** provides a \$1000 scholarship annually to one student at MIT, who is nominated by the Institute, and who presents to the Society a verifiable line of descent from a Huguenot family. This scholarship is presently open, and application forms are available in the Student Financial Aid Office.

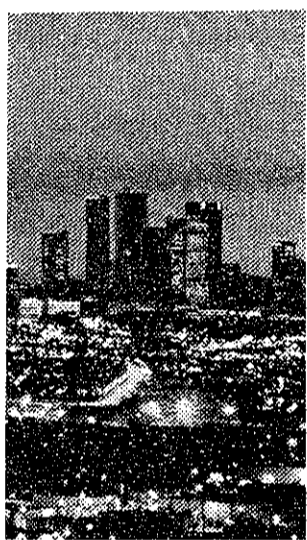
The **Jeffrey M. Frank Scholarship** for Spring 1985 is currently available through the Combined Jewish Philanthropies. Preference will be given to Jewish students from the greater Boston area. Please contact **Lucy Van der Wiel** or **Lisa Oteri** in the Student Fi-

ancial Aid Office for further information.

The **German Academic Exchange Service (DAAD)** announces the availability of scholarships for students and faculty members: **German Studies Summer Seminar at the University of Marburg** during June/July 1985. This 4-week course is designed for faculty members and, in exceptional cases, Ph.D. candidates. The seminar provides intensive language courses, seminars and lectures on political, social and economic aspects of contemporary Germany. In addition, meetings with representatives of professional groups, and excursions to places of interest are on the agenda. **Deutschlandkundlicher Sommerkurs at Regensburg University.** This course offers a 6-week German Studies program provid-

ing language instruction and concentrating on historical, cultural and economic aspects of contemporary Germany. Students from all fields with at least junior status and a good working knowledge of German are eligible. All application deadlines are January 31, 1985. For further information and application forms, please contact **German Academic Exchange Service**, 535 Fifth Avenue, Suite 1107, New York, NY 10017 or call 212-599-0464.

The **MIT Medical Department Pharmacy** is extending its hours of operation. As of Tuesday, September 4, the Pharmacy will be open from 8:30 am to 5:30 pm. To take full advantage of these earlier hours, prescriptions may be called in a day in advance and can then be picked up the following morning.



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Rosh Hashonah Evening Services, 6 pm  
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### PIANO INSTRUCTIONS

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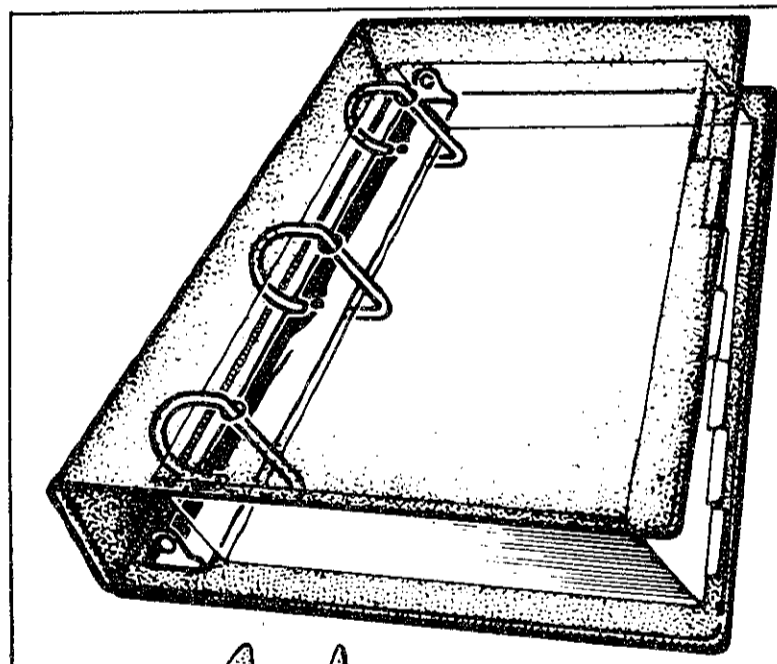
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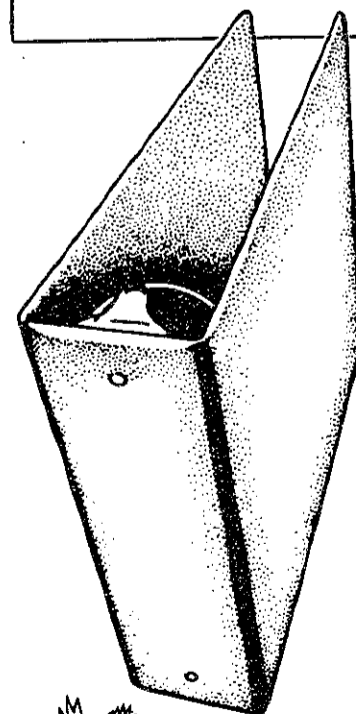
Open 7:30AM-6:00PM  
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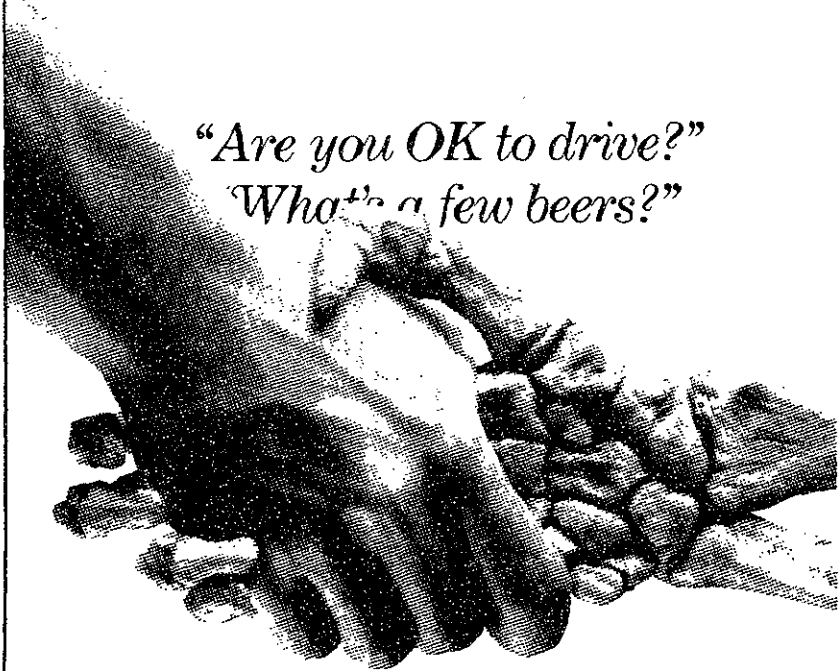
Round Ring	2.25-7.95
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"Nobody drives my car but me."*



*"Are you OK to drive?"  
"What? a few beers?"*

**DRINKING AND DRIVING  
CAN KILL A FRIENDSHIP**

U.S. Department of Transportation 

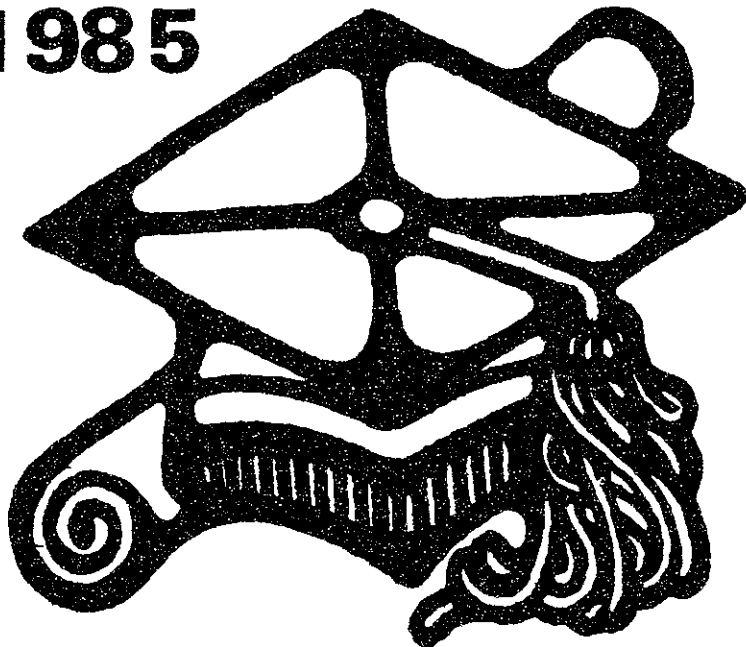
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**CLASS OF 1986**



ORDER DATE	Wednesday, October 3 One Day Only	10:00 - 4:00
NEW ORDERS	\$30 deposit required	
PLACE	Lobby 10	

**Commencement  
1985**



The Commencement Committee invites recommendations for speakers and/or topic areas from all members of the MIT Community for a Commencement speaker at MIT's Commencement on Monday 3 June 1984. The Commencement speaker should be one who will be able to address topics of relevance to MIT. Written nominations and topic areas may be dropped off at the following locations:

- The Undergraduate Association Office — Room W20-401
- The Graduate Student Council Office — Room 50-222
- The Information Center — Room 7-121

Deadline for nominations and suggestions is 17 October. In addition, suggestions may be filed with any member of the speaker subcommittee of the Commencement Committee.

They are: John H. Slater, Chairman; Donald R.F. Harleman, Ex-officio and Chairman of the Commencement Committee; Michael P. Candan, Senior Class President; William J. Hecht, Executive Vice President of the MIT Alumni Association; Rene J. LeClaire, President of the Graduate Student Council; Walter L. Milne, Assistant to the Chairman of the Corporation and Assistant to the President; and Mary L. Morrissey, Director of the Information Center. The speaker subcommittee will review all suggestions and make a short list for submission to President Gray. The list will not be made public nor will it be rank ordered. The responsibility and authority for selecting a Commencement speaker and issuing an invitation will rest with President Gray.

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# comics

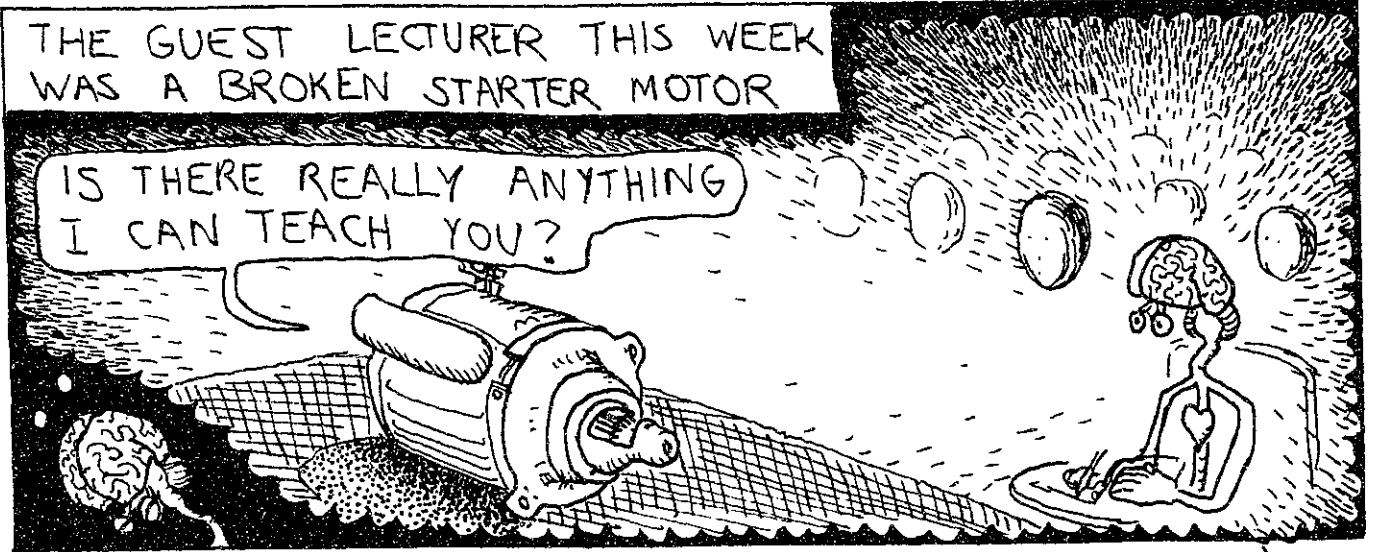
## The Legend of Fred By Jim Bredt

HERE'S WHAT  
Y'ALL'VE BEEN  
WAITING FOR  
**LEGEND  
FRED**

AS YOU MAY  
REMEMBER  
FROM THE  
FIRST EPISODE,  
MIKE MEK  
MAN, THE  
ARCHETYPE  
MIT STUDENT  
IS TAKING A  
CLASS THAT  
HE ATTENDS  
IN HIS DREAMS

THE GUEST LECTURER THIS WEEK  
WAS A BROKEN STARTER MOTOR

IS THERE REALLY ANYTHING  
I CAN TEACH YOU?



Fred the Dragon just looked this strip over and was particularly struck by what is said in

WHAT I MEAN IS...

I CAN FORCE YOU TO LEARN SOME THING OR GET YOU INTERESTED IN IT, BUT THE ONLY ONE WHO EVER TEACHES YOU IS YOURSELF

A BROKEN STARTER GIVES YOU AN OPPORTUNITY TO LEARN SOMETHING ABOUT CAR REPAIR

LIKEWISE, A 'BAD' TEACHER CAN HELP YOU TO LEARN A LOT ABOUT SELF-MOTIVATION AND INDEPENDANT LEARNING

the last frame of line 4. He wants to assign an extra credit essay exploring the

THIS IS CALLED "TAKING RESPONSIBILITY FOR YOUR OWN EXPERIENCE": YA GOTTA DO IT

I THINK I'M GOING TO NEED SOME HELP ON THAT ONE.

PRETTY HEAVY STUFF, HUH?

OH, DO YOU THINK SO TOO?

YEAH, BY THE WAY, I'M MIKE.

HI. I'M FEAR

MIKE WAS VERY STARTLED BY MEETING FEAR FACE TO FACE AND WOKE UP...

implications of this statement. How is it self-contradicting? Essays can be anywhere from

MEANWHILE, FRED IS VISITING TIM AND LIZ, SOME FRIENDS OF HIS WHO LIVE IN A FORGOTTEN LAB SOMEWHERE IN MIT

WHAT A GREAT IDEA! YOU COULD CALL IT A "KIND BOMB"! BUT WHY DO YOU HAVE TO BUILD ONE FOR YOURSELVES?

BECAUSE WE CAN!

IF WE CAN DO IT THEN THEY CAN TOO SO WE HAVE TO BUILD THIS BOMB BECAUSE THEY WILL TOO

3 words on up and may be turned in to Fred care of this paper. Much love, J. BREDT 9/20/84

ALSO, WE CAN BUILD IT OUT OF STUFF THAT WE SCAVANGE FROM MIT JUNK PILES!

WHY ARE YOU DOING ALL THIS?

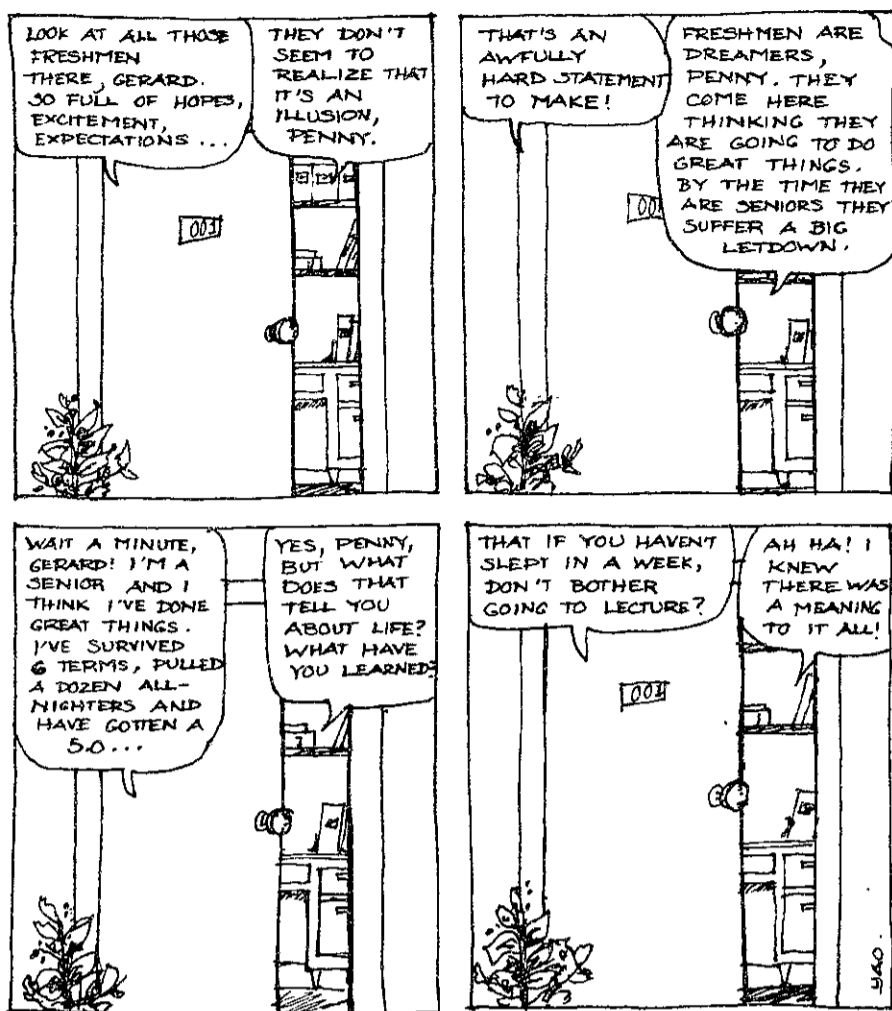
WE DECIDED THAT THE ARMS RACE DEMANDED CREATIVE SOLUTIONS...

SO WE BECAME AMATEUR WEAPONS DESIGNERS!

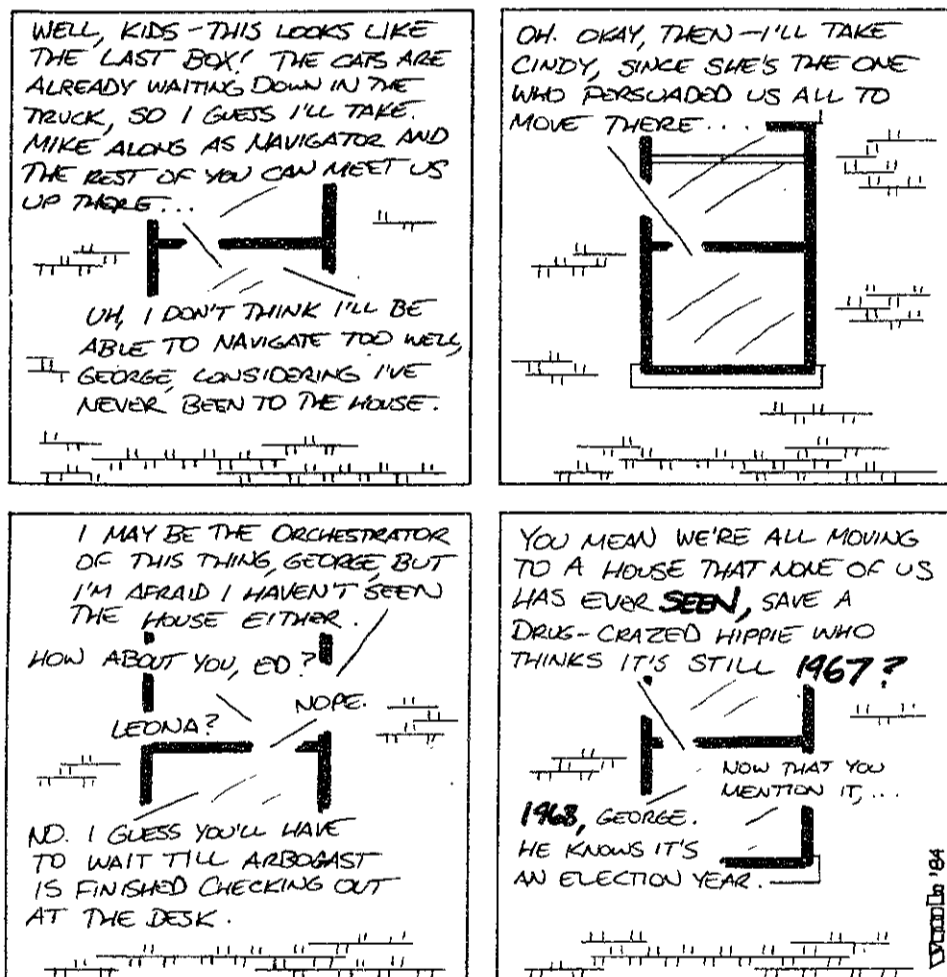
TO BE CONTINUED

# comics

Room 001  
By Carol Yao



Outside Looking In  
By V. Michael Bove



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<b>SHOWCASE DEDHAM</b> 326-4955 ROUTE 1 of 128	<b>ALLSTON CINEMA</b> 214 HARVARD AVE BOSTON 277-2140	<b>SHOWCASE WOBURN</b> 933-5330 RT. 128 NEAR 93	<b>SACK SALEM</b> EAST INDIA MALL 781-1900/595-6700

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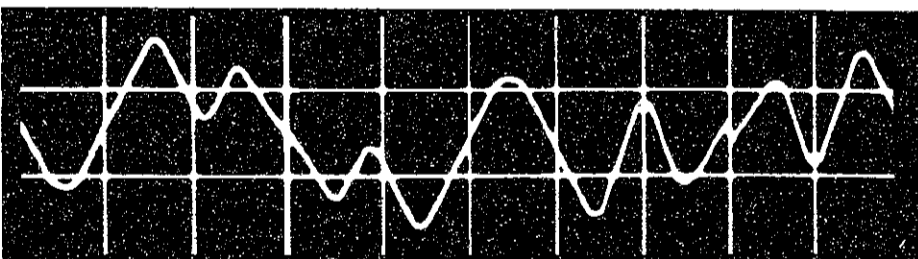
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# sports

## Coaches rank harriers fifth

(Continued from page 20)

Anton Briefer '88 finished the five miles in 26:37 to lead the Engineers.

### Women's X-country takes cup

The women's cross country team captured its half of the Engineer's Cup competition, scoring 33 to RPI's 39 and WPI's 51.

The squad's record dropped to 2-1 with a 21-35 loss to Coast Guard last weekend. Ruth Hefernan '85 led all MIT runners in both events.

Team captain Sarah de Leon '85 placed eighth in her age group (20-24) at the Bud Light US Triathlon nationals held at Bass Lake, Calif. Saturday. The MIT senior completed the one-and-one-half-kilometer swim, the 25-mile bike ride, and the 10-kilometer road race in 2:53:46.

The Engineers will be without

the services of their captain for the rest of the season, however, as she suffered a leg injury during the competition.

### Golf team off to 4-1-1 start

The golf team raised its record to 4-1-1 with a 415-432 win over Assumption College at the Pleasant Valley Country Club Friday. Rich Chleboski '87 shot a 79 to pace MIT. He was followed by Gary Zentner '87 at 81 and Eric Asel '87 at 82.

### Field hockey record stands even

The field hockey team suffered a 3-1 loss at the hands of host Babson Tuesday afternoon to fall to an even 1-1-1. The squad opened its season with a 6-3 win at Pine Manor and tied Nichols 1-1 in the Engineers' home opener last Thursday.

### Soccer falls 2-1 to Babson

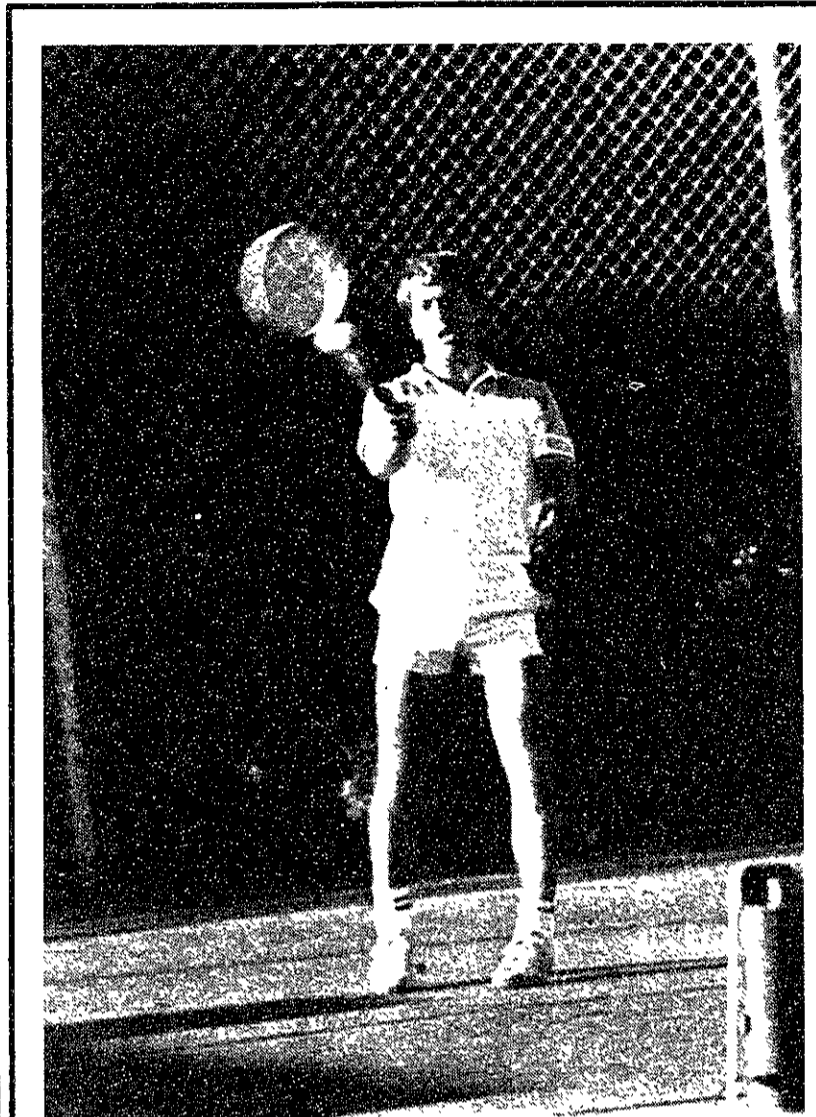
After a scoreless first half, MIT came back from a 1-0 deficit only to lose 2-1 to visiting Babson College Wednesday afternoon.

Ed Savard '87 scored the Engineers' only goal to tie the score at one, but Babson's next score went unanswered, and MIT's record fell to 1-4.

### Men's sailing has a 1-2 weekend

The men's sailing team had two successful races last weekend. The team finished first of seven at the Maine Maritime Invitational Saturday. The team returned to Boston Sunday and placed second of 10 in the Boston University Trophy on the Charles River.

Martin Dickau



Tech photo by Jim Butler

Rob Craig '86 (shown) and Ramy Rizk '86 lost their tennis match against Boston University, 6-4, 6-7, 0-1 in a last set tie-breaker called to end the match before dark. MIT lost the day's competition by 1-8.

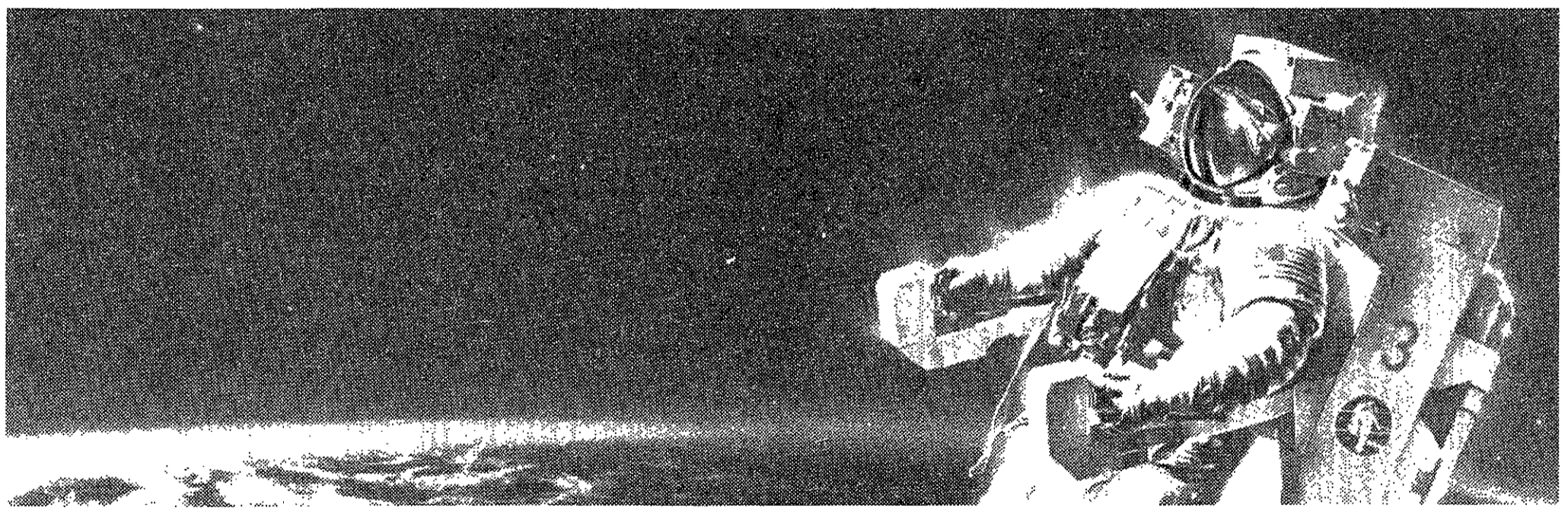
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**See our representative on campus October 4, 5**

After interviewing with our representative, pick up our full color calendar poster of the Manned Maneuvering Unit (pictured here).

If unable to interview at this time, please send your resume to Martin Marietta Denver Aerospace, College Relations Department, P.O. Box 179, Mail #L1312, Denver, CO 80201.

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# sports

## Update

### Women's tennis opens in a winning way

The women's tennis team has begun the fall season in impressive style, compiling a 5-1 record in the last two weeks.

The Engineers opened in fine form with a 9-0 shutout over Worcester Polytechnical Institute September 12.

Wins against Brandeis, 5-4, and Simmons, 9-0, followed, before a 5-4 loss to Bates Saturday. MIT got back on the winning track with a 6-2 victory over Assumption Tuesday and extended its streak to two, trouncing visiting Emmanuel, 8-1, Wednesday.

The team will be at Worcester State today and returns home Tuesday, when it takes on Clark University at 3:30 pm.

### Volleyball plucks BC Eagles

The women's volleyball team upped its record to 2-0 with a 3-0 win over host Boston College Wednesday night. MIT took the three games 15-12, 15-3, 15-12, as head coach Karyn Altman '78

gave all of her players an opportunity to get into the game.

The Engineers were without the services of co-captain Anella Munro '85, who was sidelined with a back injury she sustained in last week's match against Salem State.

### Men's X-country ranked fifth

The men's cross country team is ranked fifth in the latest New England Division III coaches poll. The Engineers have a record of 3-0 after beating RPI and host WPI, 26-57-63, in the Engineer's Cup two weeks ago and the Coast Guard Academy 20-42 last weekend.

MIT placed seven runners in the top 10, three in the top five, at the Cup. Bill Bruno paced MIT with a time of 29:38 over the rain-soaked course.

MIT's runners also dominated against Coast Guard, sweeping second through seventh place.

(Please turn to page 19)



Mike Schoen '87 dives to save an attempt by Babson College to score on a free kick during Wednesday's soccer match in which MIT lost 1-2.

Tech photo by Jim Butler

### October Home Events

#### Tuesday, Oct. 2

Soccer vs. Brandeis, 3 pm.  
Women's Tennis vs. Clark, 3:30 pm.

#### Thursday, Oct. 4

Baseball vs. Mass. Bay Community College, 3:15 pm.  
Women's Field Hockey vs. Franklin Pierce, 4 pm.  
Women's Tennis vs. Babson, 3:30 pm.

#### Saturday, Oct. 6

Football vs. Manhattan, 1:30 pm.  
Women's Sailing, MIT Invitational, 9:30 am.  
Women's Sailing, Windsurfer Invitational, 9:30 am.  
Soccer vs. Suffolk, 10 am.

#### Sunday, Oct. 7

Men's Sailing, Smith Trophy, 9:30 am.

#### Monday, Oct. 8

Women's Field Hockey vs.

Anna Maria, 3:30 pm.

Men's Tennis vs. Bently, 3 pm.

#### Thursday, Oct. 11

Soccer vs. Nichols, 3 pm  
Women's Volleyball vs. Wellesley, 7pm.

#### Friday, Oct. 12

Women's Tennis vs. Salve Regina, 3:30 pm.

#### Saturday, Oct. 13

Women's Cross Country vs. Simmons, 1 pm.

#### Sunday, Oct. 14

Men's Sailing, MIT Invitational, 9:30 am.

#### Tuesday, Oct. 16

Women's Field Hockey vs. Tufts, 3:30 pm.  
Women's Tennis vs. Rhode Island College, 3:45 pm.  
Women's Volleyball vs. Harvard, 7:45 pm.

#### Thursday, Oct. 18

Women's Field Hockey vs. Elms College, 3:30 pm.

#### Saturday, Oct. 20

Football vs. Worcester State (Homecoming), 1:30 pm.

#### Sunday, Oct. 21

Men's Sailing, Greater Boston (Oberg Trophy), 9:30 pm.

#### Tuesday, Oct. 23

Women's Field Hockey vs. Barrington, 3:30 pm.

#### Wednesday, Oct. 24

Soccer vs. Stonehill, 3 pm.

#### Oct 27-28

Men's Sailing, Schell Trophy



Tech photo by Steven Wheatman

### New England Collegiate Football Conference Team Standings

	W	L	T	PF	PA
MIT	2	0	0	43	29
Providence	1	1	0	32	30
Roger Williams	1	1	0	38	17
Stonehill	1	1	0	6	19
Bentley	1	1	0	13	10
Worcester State	0	0	0	0	0
Assumption	0	1	0	10	13
UMass-Boston	0	1	0	8	32

### Last Week's Results

MIT scored a field goal with 48 seconds remaining to edge the visiting Providence College, 24-23.

Roger Williams took advantage of the second-year UMass-Boston team, thumping the Beacons, 32-8.

Stonehill evened its record with a win over defending national champion Bentley College.

Two whitewashings took place in non-league action. Assumption pounded Siena, 21-0, and Worcester State humiliated Manhattan College, 40-0.

# TALK TO DRAPER

Wednesday, October 17, 1984  
M.I.T.

**BS/MS/PhD Candidates** — join some of the nation's most respected and inventive people at developing innovative and fascinating new technologies. As a leading hands-on "working laboratory" in Technology Square, we offer a unique environment for your career to grow and develop. **Positions are currently available for candidates in Electrical Engineering, Mechanical Engineering, Computer Science, and Aeronautics in the following areas:**

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- Guidance and Navigation Analysis
- Electronic System Engineering
- Optics
- Instrumentation System Development

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