

Students examine Institute role in SDI research Students petition against Star Wars

By Donald Yee

The MIT Disarmament Study Group (DSG) has collected over 400 signatures from students who pledged not to participate in Strategic Defense Initiative (SDI) research, according to Chris Linn '87, DSG student chairman.

Members of MIT Student Pugwash and the DSG collected the student signatures at a booth in Lobby 10. Some students and faculty are currently circulating petitions in labs around the Institute in the pledge drive for faculty, which began approximately one week ago.

"Our goal is to get pledges from around 1000 graduate and undergraduate students, over half the physics faculty and a large number of engineering faculty, particularly those in the electrical engineering department," Linn said.

The nationwide pledge drive was started by graduate physics students at Cornell University this summer, he said. The students wanted to demonstrate that some people are not willing to accept SDI research funds and to show that there is opposition to the program, Linn explained.

The drive at MIT was actually sponsored by the MIT Students Against SDI, although a large number of the people involved in the drive are members of the DSG.

"The problem is that [SDI] is misguided," said Professor of Physics Aron Bernstein, faculty chairman of the DSG. "The only counter to a defense is an increased offense. The program intended to protect us could lead to a Russian buildup. That's not a very wise move."

Bernstein explained that "the DSG exists to promote discussion, education and understanding of the nuclear arms issue on



Tech Photo by Stephen P. Berczuk
Dr. James Ionson, director of the Innovative Science and Technology Office, speaks at the SDI forum yesterday.

MIT lab performs Star Wars studies

By Edward Whang

"To make a statement one way or another about [the feasibility of the Strategic Defense Initiative (SDI)] can't be done," said Lincoln Laboratory Director Walter E. Morrow Jr. '49 at a Student Pugwash forum last Wednesday.

Morrow discussed the lab's policies and history regarding classified military research. Pugwash held the forum, attended by approximately 30 students and faculty members, to examine the role of MIT's Lincoln Laboratory in SDI research.

"There is grotesque ignorance in the SDI literature," Morrow said. "We are trying to bring hard facts."

The laboratory is studying the feasibility of SDI, he said. Scientists are researching surveillance radars which would distinguish decoys from real missiles, Morrow said.

A preliminary SDI test in June featured a specially-designed mirror built by the laboratory, Morrow

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Gray talks of MIT experience

By Jim Brody

MIT must preserve its intellectual freedom, said President Paul E. Gray '54 at a lecture Thursday night.

Summary of Gray's remarks, page 10.

MIT is concerned about the

federal government's attempts to limit university research and to restrict some research papers, Gray said.

He expressed the faculty's alarm about Accuracy In Academia, a national right-wing group that recruits students to monitor professors expressing liberal views in class. Gray said he did not know whether Accuracy in Academia is active at MIT.

The president also evaluated some of the goals he set at his inauguration five years ago. There are more women students and faculty members today at MIT than there were five years ago, but still not enough, he said.

The decrease in the number of black students and faculty members, however, is "shameful," Gray continued. Much of higher education has the same problem, he added.

Gray reiterated how he thought divestment and dis-investment actually affect South Africa in response to a student's question concerning whether MIT's policy on South Africa affects the number of black students at the Institute.

Gray also discussed a new capital campaign to increase MIT's endowment, which will begin within 18 months. The endowment

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Majors show decline in EECS

By Katie Schwarz

Forty sophomores have declared majors in alternative programs initiated last year to alleviate crowding in the Department of Electrical Engineering and Computer Science (EECS), according to the fifth-week count by the Registrar's Office.

Physics with Electrical Engineering attracted 22 sophomores, and Mathematics with Computer Science attracted 18, contributing to an increase in the popularity of the School of Science by nearly 25 percent over last year.

All of the engineering departments except EECS had steady or increasing enrollment, yet the total enrollment in engineering declined. EECS dropped to 316 sophomores from over 350 last year.

The Committee on Undergraduate Admissions and Financial Aid decided last spring not to invoke a plan restricting next year's freshmen from majoring in EECS. Preliminary data had shown a drop in EECS enrollment.

The second and third most

popular departments after EECS are Mechanical Engineering and Aeronautics and Astronautics. Just over half the members of the Class of 1988 have declared majors in one of these three departments.

Although there is some concern among the Aero/Astro faculty about rising enrollment, no crowding problem has been seen yet, according to Professor Emmett A. Witmer of the department's undergraduate office. "For the time being, we're managing quite well," he said.

Biology and Physics followed closely behind Aero/Astro in popularity. Biology enrollment, up sharply this year, is still below its peak in the 1970s. But a shortage of space and resources could arise if the number of students continues to climb, said Associate Professor Graham C. Walker.

Physics nearly doubled its sophomore enrollment, from 56 to 96, including the new program with Electrical Engineering. The department had expected enrollment to rise with the introduction of the new degree program, but

the increase was greater than predicted, according to Kim Wainwright, head of the undergraduate physics office.

It is difficult to determine why so many more sophomores chose physics, said Professor Felix

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Black students hold conference

By Thomas T. Huang and Craig Jungwirth

The 13th annual MIT Black Students' Conference on Science and Technology examined "The MIT Experience" last weekend. Two major addresses and a career showcase highlighted the event, but the conference's plenary session and three workshops were sparsely attended.

Text of Wesley Harris' speech, page 11.

The number of students who attended each workshop ranged from two to five, not including company representatives or panelists. In his luncheon speech, Professor James H. Williams Jr. '67 warned, "The conference has atrophied. It has decayed. And you're stupid if you don't want to hear that, you see, you need to be told that if it's the

(Please turn to page 16)



Tech photo by Sidhu Banerjee

Professor James H. Williams Jr. '67

Williams gives own view

By Craig Jungwirth

Professor of Mechanical Engineering James H. Williams Jr. '67 warned black students that many of them are being trained to mediocrity, that many are afraid to think and act and that many minority administrative leaders do not represent the true concerns of the minority community.

He related his experiences as a black American and a minority member of MIT at a luncheon session during the MIT Black Students' Conference on Science and Technology Saturday.

Williams last attended the conference in 1973, when he proposed the establishment of a black think-tank. Others who were present at the conference thought the idea impractical, and therefore impossible, he said.

Williams hoped the young people in the audience would gain a better perspective of the history of the black struggle. Civil rights

progress was "fueled by a lot of work by some liberal whites and some Jews, but mostly fueled by sacrifice and bloodshed of black-folk," Williams said.

Many of these liberal whites and Jews have "given up the struggle," Williams said. "There is a lot of work for you to do."

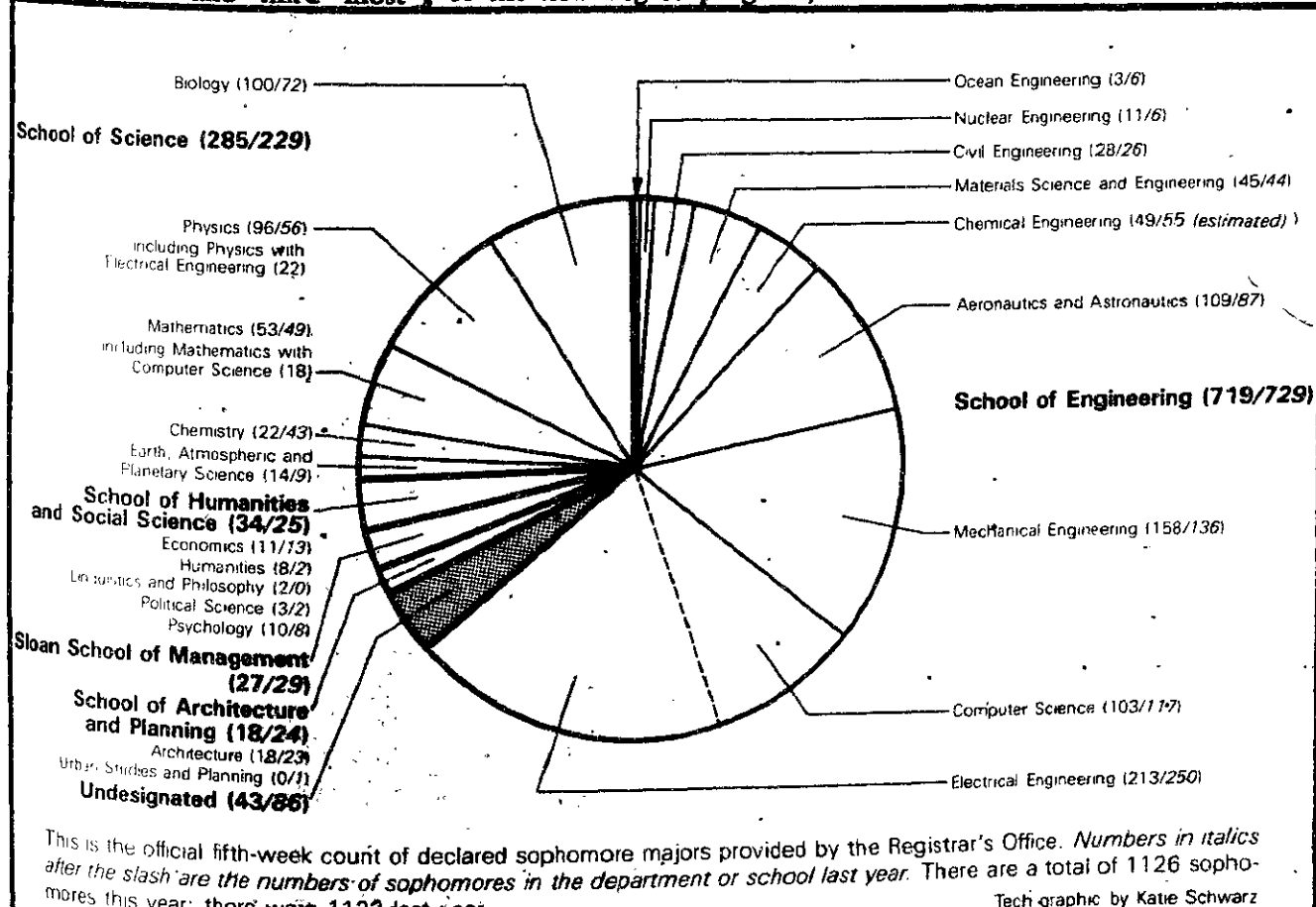
Williams presents his personal time-line

• May 17, 1954: The Supreme Court rules that segregation in the public schools is unconstitutional. Williams pursues his studies in Virginia under the 1896 ruling of *Plessy v. Ferguson*: "separate but equal."

"Little colored boys and little colored girls don't dream of being engineers," Williams said. They think of engineers as the people who "drive trains."

"Many whites say that Negroes don't have the skills to excel at

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Tech Photo by Stephen P. Berczuk

Happy two Millionth, LSC
John Chang '89 was LSC's two millionth Customer. After arriving at Saturday's early show, John was awarded with an LSC cape, a "medium" popcorn (pictured), and a free pass to LSC movies through June. LSC has been showing movies since 1951.

CUAFA program provides incentive

By Kyle Peltonen
and Craig Jungwirth

The Student Financial Aid Office (SFAO), in conjunction with the Committee on Undergraduate Admissions and Financial Aid (CUAFA), has implemented a two-year Pilot Outside Scholarship Incentive Program beginning this academic year.

The experimental program provides eligible upperclass students with up to a \$1000 reduction in their National Direct Student Loans (NDSL) if they receive new scholarships from certain sources outside of MIT.

The number of students participating in the program is "still so small," said Assistant Director of Financial Aid Lucy Miller. "We haven't seen any major perturbation in the NDSL program" due to CUAFA's pilot experiment.

Program's rationale evolved from previous policies

"There has been a great concern among the administration, faculty and students," Miller said, "that [MIT's] current outside scholarship policy provides a disincentive for upperclass students to apply for new scholarships as well as [to] renew scholarships held in their freshman year."

CUAFA was concerned with the current policy on outside

scholarships, according to Professor Kenneth R. Manning, chairman of CUAFA. The committee "wanted to have a situation where students could enjoy outside money," he said.

MIT traditionally deducted outside scholarships from MIT-administered grants, rather than loans. "We are not sure that [it] is the case" that the Institute's past policy "provides a disincentive," Miller explained.

"The point of the experiment is to gather some data," she said. "There is no benefit to MIT, except for data collection."

Manning said the committee is "looking for every way to help students of diverse economic backgrounds to make it through [MIT] in every way."

CUAFA takes into account the "concern of students," Miller said. The SFAO "is ultimately concerned" about students, she added. But the pilot program is viewed "very much as an experiment to learn some things [and the SFAO] is helping students in a different way."

CUAFA considered program last academic year

CUAFA was looking for a scenario last year that would make allowance for students who received money from outside scholarships, according to Manning.

SFAO Director Leonard V.

Cambridge shuts down Central Square clubs

By V. Michael Bove

The Cambridge License Commission has ordered two Central Square nightclubs closed and restricted the operating hours of three others. Complaints about noise and parking problems, as well as concern over the ability of emergency vehicles to pass through crowded side streets, prompted the commission's actions.

Residents of the Brookline St./Green St. area, angered at traffic congestion and at noisy crowds which they claim spill out from the clubs onto nearby streets, have been pressuring the commission for over a year to take some action. They claim the problem has greatly increased with the recent opening of new nightspots and the expansion of existing ones.

In an October 8 meeting, the commission voted to:

- Close Man Ray, a nightclub which opened in March and has been praised in both local and national media for its meticulously researched 1950s decor, including kitchen and bomb shelter. Failing court intervention, the closing will take effect Nov. 1. But manager Bruce Johe has expressed his intention of obtaining an injunction against the closing while an appeal is being decided.
- Shut down the Latin Quarter, a room above Latin-O's res-

taurant and bar which has been open for dancing Saturday nights.

- Revoke the entertainment license of T. T. the Bear's, a restaurant and bar which recently began featuring live local bands.

- Order a 1 am closing time for Latin-O's, T. T. the Bear's and the Campus, a gay men's club operating under the same management as Man Ray. The three establishments had previously stayed open until 2 am.

- Suspend the liquor licenses of T. T. the Bear's and the Campus, beginning March 1, 1986, unless the owners agree not to appeal the commission's other rulings. T. T. the Bear's license would be suspended for 15 days, and the Campus's license until Aug. 1, 1986.

James T. McDavitt, chairman of the three-member License Commission, said that his group was never contacted for permission when Latin-O owner Juan Cabrera leased the restaurant's second floor for the Latin Quarter, nor when Campus owner Don Holland opened Man Ray. Furthermore, he said, T. T. the Bear's failed to notify the commission that it had been bankrupt for over two years when it applied for and received permission for a 2 am closing and live entertainment.

MIT readies for "Beaver Fever" Autumn weekend

By Betty J. McLaughlin

Feature

This week will be filled with "beaver fever" as the MIT community celebrates Autumn Weekend, Oct. 23-26. Parties, barbecues and sports events are among the activities scheduled for Autumn Weekend by the Undergraduate Association (UA) Social Council.

The weekend will begin Wednesday, Oct. 23 with the Freshman/Sophomore Ice Cream Orgy, sponsored by the Classes of 1988 and 1989. The event will start at 8 pm in Lobdell Dining Hall in the Julius A. Stratton '23 Student Center. A small admission fee will be charged.

The Junior/Senior Pub, organized by the classes of 1986 and 1987, will take place Thursday from 9 pm to 1 am at Lobdell. Admission to the pub is \$1 and live entertainment will be provided.

Friday's events will begin with the football cheerleaders' pep rally on the Student Center steps at 3:30 pm. Balloons, buttons, pompons and football team pamphlets will be distributed.

Friday will also feature "Student Center Committee Presents Comedy Night" from 9 pm to 1 am in Lobdell. Magician and comedian John Ferrentino and ventriloquist Taylor Mason will perform. Admission will be \$1, and refreshments will be available.

Saturday's activities start with a pre-game tailgate picnic from

12:30 pm to 2 pm at the barbecue pits near the Athletic Center. This event is sponsored by the Dormitory Council and Baker House.

MIT will oppose Bentley College at 2 pm in the Homecoming football game at Steinbrenner Stadium.

The Amherst Alley Halloween Video Party will be held in the Delta Kappa Epsilon (DKE) back lot in Amherst Alley from 9:30 pm to 1:30 am on Saturday, Oct. 26. The video disc jockeys Videostar will play music videos, and everyone is encouraged to wear a costume.

The best-costumed party-goers will win prizes if enough guests arrive masqueraded. Otherwise the prizes will be awarded to the best dancers.

The video party is sponsored by the UA Social Council as well as Tau Epsilon Phi, DKE, Alpha Tau Omega, Phi Beta Epsilon, and Tau Delta Chi fraternities.

The Skuffle Costume Party, presented by the Phi Kappa Sigma fraternity on Beacon Street in Boston, will also begin at 9:30 pm, Oct. 26. Approximately 150 couples will be able to attend Skuffle for \$4 each.

The football cheerleaders and Thallians, a group of MIT women attempting to form a sorority, will sell MIT Homecoming pennants for \$1 in Lobby 10 throughout Autumn Weekend. They will also distribute schedules of the weekend's events, buttons carrying this year's theme of "beaver fever," balloons and pompons.

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news roundup

World

Black youths are the vanguard of struggle in South Africa — Seventy percent of the more than 700 persons killed over the last 13 months in anti-apartheid demonstrations in South Africa were 25 or below, according to a private police-monitoring group. Hundreds of thousands of black students have not attended classes during the last year, honoring boycott calls by the Congress of South African Students. Their credo is "Freedom first, education later." This movement has led many parents to call their sons and daughters "the lost generation."

Israel finds proposed US arms sale unacceptable — Israeli Prime Minister Shimon Peres said in a televised announcement that the US-proposed arms sale to Jordan is unacceptable, even if the package is reduced from \$1.9 billion worth of aircrafts and related anti-aircraft defenses. "Our feeling, contrary to the prevailing feeling in some circles in Washington, is that arms will not lead to peace," he said. The only acceptable arrangement, according to Peres, is to "let have peace."

US holds upbeat meeting with Egypt — US Deputy Secretary of State John C. Whitehead met with Egyptian Foreign Minister Esmat Abdel Meguid on Sunday in hope of improving the relations between the two nations. Whitehead met with President Reagan yesterday to discuss the Egyptian charges that the interception of their plane carrying the hijackers of the cruise ship *Achille Lauro* was part of a conspiracy by the US and Tunisia.

Prince Charles and Princess Diana rebuff gossip — Great Britain's favorite prince and princess rebuffed gossip that their marriage has gone sour. The announcement was televised to at least 20 million viewers with the prince and princess portrayed as a happy couple while the two young princes William and Harry tried their banging talents on a nearby piano.

Nation

Leon Klinghoffer honored as symbol of innocence and goodness — Leon Klinghoffer was hailed as a symbol of innocence and goodness in a harsh world by President Reagan and New York legislators. An Army honor guard, elected officials and family members gathered at Kennedy Airport on Sunday as the remains of Klinghoffer were returned to the United States. Senator Daniel Patrick Moynihan said that Klinghoffer died because he was "an American, because he was a Jew and because he was a free man." Mrs. Klinghoffer and her daughters made no public announcements at the ceremonies. She said, according to a family spokesman, that they were observing the traditional mourning period called Shiva.

Trial to begin for sanctuary supporters — Two Roman Catholic priests, a nun, a Presbyterian minister, a Quaker activist and six other voluntary workers will go to trial today on federal charges of smuggling and harboring illegal aliens in the United States. The case is seen as a challenge to the Reagan administration's tough policy and as a major test of the churches' four-year-old sanctuary movement.

Eight aging Mouseketeers returned to Disneyland — Former Mouseketeers Darlene Gillespie, Cubby O'Brien, Bobby Burgess, Tommy Cole, Bonnie Lynn Fields, Lonnie Burr and Sherry Alberoni returned to Disneyland last weekend to revive some old routines to mark the 30th anniversary of the "Mickey Mouse Club."

Hollywood stars gathered at Rock Hudson's tribute — Elizabeth Taylor organized a tribute for her late co-star Rock Hudson which was attended by some of Hollywood's biggest stars. Carol Burnett, Jane Withers, Ricardo Montalban, Robert Mitchum, Angie Dickenson, Martha Raye, Glenn Ford, Roddy McDowall, Jessica Walters and Todd Clark, Hudson's long time companion, were among the 140 who attended the tribute. They gathered to pay a tearful tribute to the late star and shared the margaritas, Mexican food and mariachi music that Hudson loved.

Anh Thu Vo

Local

Boston investigates ambulance delay — Boston emergency medical technicians said most of the 12 ambulances in the city's fleet are in poor condition and that there have been at least four fires involving the vehicles since January. The Health and Hospitals Department is investigating. City Council President Joseph M. Tierney is seeking public hearings on the problem.

Sports

Cardinals crow over Royals — The St. Louis Cardinals have flown ahead of the Kansas City Royals two games to none, by margins of 3-1 on Saturday and 4-2 on Sunday in Kansas City. The series resumes tonight in St. Louis with Joaquin Andujar facing Royal ace Bret Saberhagen. Kansas City has the weight of history against them: No team has ever lost the first two games at home and come back to win the series.

Weather

Clouds on the horizon — and overhead — Yesterday's brilliant sunshine gives way today to clouds with highs 56-60. Cloudy this evening with overnight lows 45-49. The clouds may break up tomorrow, raising the expected high of 60-64.

Robert E. Malchman

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opinion

Editorial

Do not find Bexley guilty on rumors

Bexley Hall was the first choice for fewer freshmen than any other dormitory in Institute housing this fall. The dormitory has received a reputation — perhaps undeserved — for deliberately causing this poor showing.

MIT administration officials have alleged anti-rush incidents at Bexley Hall. Housemaster Judah Schwartz, however, does not believe the incidents constitute violations of Institute rules.

Some people have argued that the current residents should be removed by the Institute and replaced with other students. Associate Dean for Student Affairs Robert A. Sherwood has said he was considering plans to turn Bexley into a house for the members of Alpha Phi sorority; to use Bexley for graduate student housing; or to house students crowded in other dormitories.

Consideration of such precipitous actions is premature at best. No infractions have been proven to have occurred. No individual has been charged with any infraction.

The Dean's Office, furthermore, is not the proper body to investigate the alleged violations. That office, and Sherwood in particular, have seen the anti-rush hobgoblin hiding within every undersubscribed dormitory for years. Tastes in housing change from year to year, as any rush chairman will attest. Those fluctuations cannot necessarily be attributed to any particular house action.

The Committee on Discipline should investigate the charges against Bexley made by the Dean's Office and students. While at that task, the committee would also do well to investigate whether Bexley has been slandered by members of other living groups. How many of the students who refused to live in Bexley have ever set foot in the building? Only 70 of the over 1100 members of the Class of 1989 visited Bexley during Residence/Orientation Week, according to Schwartz.

If individual residents of Bexley Hall have violated the Institute's policy on harassment, then they should be found and held accountable. Until anyone has been found guilty of these alleged infractions, it is inappropriate for the Dean's Office or the student body to regard the house as guilty.

Unless a large proportion of the residents are found guilty of these alleged infractions, it is unacceptable that the house as a whole be punished. It would be an injustice to destroy the community of an entire dormitory for the actions of a few.



HA!... Looks like I bagged another Commie culture...

Guest Column/John Harbison

Can We, too, be the world?

Statement and Counterstatement:

1A The July Live-Aid concert was the "greatest day in the history of music." (ABC-TV)

1B The greatest day in the history of music was the day Bach handed out the parts for the Matthew Passion.

2A Bob Geldoff, member of the Boomtown Rats and Initiator of Live-Aid "was not surprised by his nomination for the Nobel Peace Prize." (USA Today)

2B The members of the Music for Peace group, who live among the poor in India, bringing them music, medicine and spiritual counsel, would be very surprised to be nominated for the Nobel Peace Prize.

3A Live-Aid was the "greatest example of selfless human cooperation of all time." (Capitol Times, Madison)

3B Selfless human cooperation, more easily evaluated when a billion people are not watching, could also describe the work of Quaker volunteers, hurricane relief squads, or even an amateur orchestra.

This is dangerous terrain, planted with mines and sour grapes. But for musicians in concert music, Live-Aid and the various *We Are the Worlds* which preceded it, in addition to their magnificent philanthropy, recalled us to some important truths about our profession:

1. Rock music like all the economic juggernauts at the upper levels of our economy, can do anything it wants. It does not need to raise money to exist, it makes money beyond comprehension.
2. Rock music is music to the vast majority of listeners, from the most illiterate to the most educated.
3. Compared to the economic fact of rock music, all concert music, even involving stars like Pavarotti and Perlman, is commercially ephemeral and its struggles and triumphs a side-street.

In those terms, new music ensembles like collage work in an alley of a side-street. Our breweries and distilleries are located upstairs in the rear, and we are overdue on the rent.

Is it possible that this is where we belong, that rather than being prophets and poets and visionaries, we are irrelevant neurotics singing into our armpits?

The Playmate of the Month lists "contemporary music" as one of her interests! But it is not Jacob Druckman and Andrew Imbrie she fancies, it is the Stray Cats and Duran Duran. "She's right," says my friend the literature professor, who reads Updike and Bellow, looks at Poons, and endorses that very music:

"Michael Jackson, Madonna, and Prince are the Mozarts and Beethovens of today, music lives, you guys just haven't caught on!"

What Tina Turner expresses and what Roger Sessions expresses are different things. Sessions' recent death robbed me of one of my most persistent fantasies, to have Tina introduce him to America at some gonzo pan-musical epiphany. But the fact remains that different musics aim very differently. The finer they are the more they overlap, but in general rock seems to embody rebellion, against parent and society, extrovert sexuality, aggression of a more or less tolerable kind, and the childlike need for loudness, reiteration, and pulsation. The rock performer is expected to swagger, flaunt, and harangue, to give the impression that he will live forever without impediment. Concert music, while touching these at times, seeks transcendence, the awareness of death, the control of time, the hope, not the certainty or immortality. These guests take place within the music. If concert music fails to undertake this calling, this guest, it doesn't deserve our care. Our secret fear is that our present back alley addresses comes partly from our failure to distinguish ourselves from popular music, in terms of the magnitude of our aims, the poignance of our hopes, the grotesqueness of our failures.

Collage would like to donate

Column/Elliott Marx

MIT needs a stronger humanities education

A stronger humanities education for undergraduates is needed at MIT. There is no core curriculum in humanities, and students are only required to take eight courses.

Many students do not take advantage of the humanities offered here. In preparing for a career, students often overlook the value of a liberal arts education. Perhaps they are also discouraged because they do not do well in humanities courses.

We need to encourage students to appreciate humanities by exposing them to a core curriculum and requiring more courses. As every scientist knows, most discoveries are made by accident. Similarly, I believe that we may discover humanities courses that interest us after being exposed to them.

I remember in high school when I complained about having to take a literature course in order to graduate. I figured that

the proceeds from its season to help the increasing number of homeless and hungry people in Boston. But we still haven't been able to pay players for our final concert last year. We would like to play pieces which would fill Fenway Park, but we have appetites and aspirations which lead us urgently in other directions. We would like to be able to tap into the generous corporation support for music for which Minneapolis and Pittsburgh are becoming famous, but we are in Boston, renowned as the proudest and tightest arts city in the country.

This leaves us morally inferior, publicly dimmer, financially weaker than our colleagues "in the world." But we are not the world; we are some small parts of the flesh and brain of the world, some essential enzyme. We are really lunatic (moon-mad) enough to believe that some part of the music we play will last as long as someone is there to listen.

All good music helps someone, either frontally, in lifting depression through absorption, or therapeutically, in enlarging the emotional like. At our back alley address, which we share with our friends from similar groups, we plan, with your help, our new campaigns.

(Editor's note: John Harbison is a professor of music at MIT. This column is reprinted from the Fall 1985 issue of collage.)

once the course was over, I would not need to know anything I had learned. I also recalled struggling through a previous course in Shakespeare — after that course, I thought "Never again!"

Although I did not do too well in my required literature course, I was greatly inspired by what I learned. I have since become an avid reader, enlightened by what I could learn about different cultures and societies.

It would be unreasonable to expect all students here to be master literary critics and historians. MIT's main goal is to graduate people who will be leaders in technology.

But because whatever we do will most likely have an impact on others, we should become socially aware. If the humanities requirements are increased, students will more likely find humanities courses that interest them and thus increase their social perspective.

The Tech

Volume 105, Number 43

Tuesday, October 22, 1985

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opinion

column/Simson L. Garfinkel

Pornography bill has flaws

The proposed pornography amendment to Cambridge's Human Rights Ordinance is bad English and bad law. This referendum must not be approved by the Cambridge electorate.

Although the writers of the law may have good intentions, the issue which Cambridge voters will be deciding is how to change the Cambridge Human Rights Ordinance. If some future court makes a judgment based on these changes, it is the words — and the words alone — which the court shall make its ruling. If the Women's Alliance against Pornography must place an anti-pornography referendum on the ballot, I wish that they could not have written one as blatantly sexist as this.

By defining pornography as "a graphic sexually explicit subordination of women through pictures and/or words," the amendment paints women as defenseless beings whose unique needs and special problems must be specifically addressed by the law. Although pornography and the violence it engenders may be a crime primarily against women, there is no reason for the law to adopt the same sexist thinking as the criminals. There is no reason for the law to use the word "women" when "person" would do just fine.

The amendment states: "Any man, child or transsexual who alleges injury by pornography in the way women are injured by it also has a claim [against the offender]." The effect of this clause is to deny the full coverage against pornography to men, children and transsexuals which the amendment extends to women. There are indeed unique ways in which men can be injured by

pornography; the amendment does not make these injuries by pornography a crime.

When the amendment spells out that it additionally applies to transsexuals, the text conveys the impression that transsexuals are somehow less than human, since they are not covered under the terms "men" or "women" but must be addressed separately. This is beyond sexism: this is dehumanization.

Literary merit aside, the proposed amendment is bad law.

By defining "Trafficking in pornography" as a crime, the effect of the bill is to outlaw the sale of all pornographic material in Cambridge. No damages need be proven; if a merchant sells a pornographic publication, or shows a pornographic movie, he is breaking the law and may be arrested or sued. This deliberate censorship will be the major effect of this referendum if it is passed.

While legislating against "Coercion into pornography" is commendable, the proposed amendment defines "coercion" in such a way as to make any participation in the creation of a pornographic work definable as "coercion."

If I were to take photographs of my girlfriend naked in my dormroom in Cambridge, the passage of this amendment would allow Suzanne Melandy, one of the proponents of this bill, to file suit against me in Cambridge courthouse for coercing my girlfriend to perform pornographic acts. The fact that my girlfriend had "showed no resistance or appeared to cooperate actively in the photographic sessions [Sec. 2, § 8A 18.a.x]," had "signed a contract or made statements affirming a willingness to cooperate

in the production [18.a.xi]," and "no physical force, threats, or weapons were used in the making of the pornography [18.a.xii]" would make no difference to the judge making a ruling based on this ordinance.

Under this law, anybody who makes pornography in Cambridge can be legitimately accused and convicted of coercing their model.

If Cambridge adopts such a law on pornography, it will be denying artists and authors the right to create, market, distribute and show works depicting a true and legitimate facet of the human experience. Existing obscenity laws do not deny artists the right to create such works; they merely regulate their distribution.

Whether we wish to admit it or not, there are both women and men who take on roles as sexual objects, who enjoy pain and humiliation, who enjoy being tied up and physically hurt. These things happen in reality; they are happening now. The duty of art and literature is to comment on the human condition. This amendment, if it became law, would deny artists in Cambridge the right to make such comments.

If the amendment were well written, Cambridge voters would be free to decide on the bill's legal and moral merits. The discussion surrounding the passage could center on the issue of pornography. But the poor use of language in this bill demands that voters reject it on stylistic grounds alone.

I call on all Cambridge voters to vote against the anti-pornography referendum on November 5.

feedback

Ordinance will not curb rights

To the Editor:

The following is a response to Adam Dershowitz's letter to the editor printed in *The Tech* ["Porn measure violates rights," Oct. 18].

Why is it "ironic" that civil rights for victims of pornography should be part of the Human Rights Ordinance? Of course, it is true that victims of pornography are nearly always women. It is also true that the Human Rights Ordinance does not currently include us. If it did, there would be no need for an ordinance that gives civil rights to victims of pornography, because there wouldn't be any.

Dershowitz is concerned that "our" freedom of speech will be violated. Women's speech is violated by pornography (but then again, the Bill of Rights was never intended to cover women.) If pornography harms women (via rape, torture, subordination...),

then is its "speech" value more important than the rights of pornography's victims to equality (that is, not subject to systematic subordination, rape, torture...)?

Dershowitz takes a part of the definition of pornography: "women are presented as being penetrated by objects of animals," and claims that "this clause describes sex." I hope, for the sake of any woman who has had or will have sexual contact with him, that he does not define sex as the ordinance describes pornography. (In order to be pornography, the material must (1) be sexually explicit and (2) subordinate women and (3) include one or more of the following... (including) (viii) women are presented as being penetrated by objects or animals.)

He says if someone proposes sexual relations with someone else, that would be pornography

— "graphic sexually explicit subordination... by words." Perhaps the word subordination got past him. It means "1: to place in a lower order or class, 2: to make subject or subservient; subdue." If this is what he proposes when he proposes a sexual relationship, then I can see why he is against those who seek to redress pornography's harm. Pornography legitimizes and is his sexuality.

And finally, Dershowitz proposes that people vote against the ordinance because it may be unconstitutional. I propose that people vote for what they believe in. That is, vote yes if you think victims of pornography should have civil rights. And after that, if you worry if they have this constitutional right, then let such a decision be made by the Supreme Court, not Adam Dershowitz.

Betsy Salkind G

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opinion

feedback Israel is responsible for escalation of violence

To the Editor:

The MIT Committee on the Middle East strongly condemns the Israeli bombing attack on PLO headquarters, and subsequent Israeli threats toward Jordan. The attack was conducted by American-made F-15's, within Tunisian territory, and resulted in seventy-three deaths. Israel justified this attack as retaliation for the recent murder of three Israelis in Cyprus. We are opposed to all acts of violence in the region and do not wish to distinguish Israeli acts of violence from other acts, but believe that there is an important difference between state violence and the violent acts of individuals or small groups. Israel's policy of retaliation has not eliminated terrorism or done anything to solve the causes of terrorism, but has resulted in further escalation of violence.

The attack closely followed the visit to the United States by King Hussein of Jordan, during which the Reagan administration praised efforts to bring about peace in the Middle East; however, the threats against Jordan by Defense Minister Rabin, the day after the bombing, show an obvious intention to undermine any peace process and to destabilize

the politics of the region. This attack was just another political effort, like the invasion of Lebanon, designed to increase hostilities and to diminish possibilities for peace.

Apparently suffering from retaliation-envy, Reagan initially condoned the attack, thus disregarding his own statements about peace and showing the Arab world his lack of credibility. The administration did manage to abstain during the UN Security Council vote (amidst apologies to American Jewish leaders), but this will not diminish Arab skepticism of the real American position on peace in the Middle East.

The results of these acts were displayed by the Achille Lauro highjacking, and then the str-e-initiated highjacking of the high-jackers. In the midst of the activity, charges, and counter-charges, the path to peace is again diverted, and the path to war more likely.

Ur Shlonsky G
Mark Anderson G
Wayne O'Neil
Michael Diener '86
and four other members
of the MIT Committee
on the Middle East



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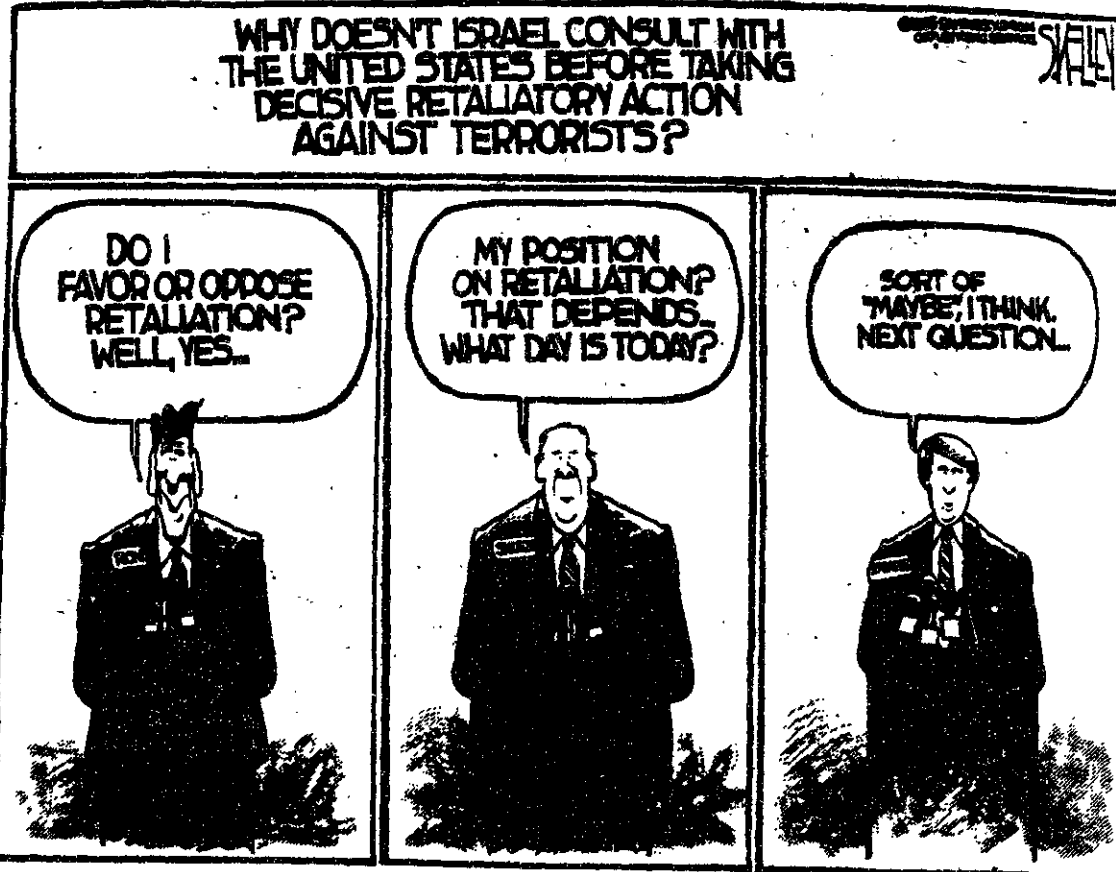
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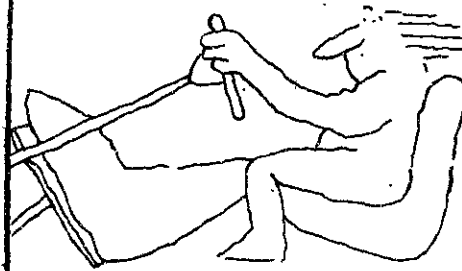
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opinion



feedback

Question the CIA's activities

To the Editor:

Several letters to the Friday Tech indicate that further explanation of the student protests against the CIA are necessary.

In particular, Paul Sherer '87 "Survival is only determined by might and not by right," Oct. 18] tells us that we should support the actions of the actions of the CIA, because "survival is determined by might, not right," and that "America stands for democracy and human rights." I suppose this means that we somehow symbolize these ideals while actively destroying them in tiny Third World countries whose absorption into the monolith of world communism will bring about the demise of our vulnerable republic.

Only the ignorance of the American public has allowed this convenient government claim to remain largely accepted. Only the violence on the scale of the Vietnam War seems capable of breaking through this wall of ignorance. Here are some examples of how the CIA has protected us from the Soviet Union:

Very few Americans are aware that in 1954, after eight years of democratic rule, the government claim of Guatemala was overthrown by the CIA and local fascists. Our government didn't like the left-leaning tendencies of the president of this small Central American country, but Guatemala's real sin was expropriating the "unprofitable" land that United Fruit Company, was keeping in reserve at a time when thousands of Guatemalans were starving. The government could put up virtually no armed resis-

tance because they had virtually no external (ie. Soviet) support. The legacy of our intervention has been thirty years of military rule that has murdered at least seventy-thousand civilians — and the people are still malnourished.

Chile's threat to the United States was its demonstration that a socialist president could legitimately be elected president. Kissinger was particularly worried that European countries such as Italy might be so impressed by Chile's example that they, too, would succumb to this threat of democracy. The only choice was to use the CIA to secretly do all it could to destabilize the country. When the military finally struck, with tacit US approval, it replaced decades of parliamentary democracy with a totalitarian military dictatorship that whithered the freedom and respect for human rights that persisted under the Socialists.

To complete this sampler of CIA activities (only a fraction of their many tricks around the world), we come to Nicaragua. In 1979, where were the "freedom fighters" the CIA brought together in 1982 to attack their own country from bases in Honduras? They were in the National Guard, protecting Somoza from just about everybody else in the country. Why use Guardsmen, so widely hated in Nicaragua, to attack the regime? According to CIA testimony, they were "the only ones who wanted to fight". [The Washington Post, 5/8/83].

That groups such as the Political Science Committee on Central America seek to educate the American public about the

crimes that are being committed in our name does not mean we are in favor of similar Soviet actions. On the contrary, we must always fight this assumption that every place on earth must be owned by one of the two superpowers. Until the KGB begin to recruit on campus or MIT students tell me that the Russians must fight US imperialism in Poland, it seems more relevant to try to influence the actions of our own government. For forty years the Soviet Union and the United States have used each other as excuses to control smaller countries (though five years before the Russian Revolution were invading Nicaragua to protect it from "Mexican Bolshevism"). In reality actions such as those I have described have little to do with a Soviet threat *per se*, but with an erosion of US influence in countries which wish to assert their own sovereignty.

The people of Central America are not pawns to be moved around by the big countries. They are people with enough problems without the United States screaming at them about the Russian threat when with our moeny and guns and our bombs we are their main threat. I invite everyone to future Committee on Central America events — lectures, movies, debates, etc. Come to listen, to argue. But do not out of ignorance condone the suffering our government is causing just because it waves the flag. In a society that prides itself on being ruled by the people, that would be irresponsible — and dangerous.

Barry Klinger '85

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opinion

feedback

Concert series offers exceptional opportunity

To the Editor:

It is not often I stir myself to write to *The Tech*, but I feel that I have now been amply rewarded for at least reading it. The *Tech* concert series has now afforded me two affordable and immensely enjoyable concerts at Symphony Hall, which I otherwise would not have been financially able to attend.

I went to the heavenly Mahler/Haydn program given by the Concertgebouw Orchestra of Amsterdam recently, and I attended yesterday afternoon's performance of Scriabin and Rachmaninoff works by Andrei Gavrilov. In terms of sheer musical beauty, both concerts are unrivaled in my recent experience.

Gavrilov's performance yesterday was absolutely riveting, and the shamefully sparse Symphony Hall crowd knew it from early on in the first half of the program. The question on everyone's mind, "Why such a lopsided Romantic program?" was amply answered by Gavrilov, who paid tribute to his late 19th/early 20th Century Russian forbears with amazing technique and blinding tempos (which never seemed to miss anything!). The audience applauded all but one of the works on the second half of the program (there were seven), and the reason for this abstinence was that the audience was too moved — there were audible sighs in lieu of clapping.

notices

THE CHINESE INTERCOLLEGIATE CHORAL SOCIETY meets Sundays 3-5PM in W20-491. Anyone who likes to sing and can speak any Chinese dialect is welcome. Currently rehearsing Chinese folk songs. Free voice lessons and music theory classes at 1 P.M. For further info., call Thanhthu Huynh at x5-9678.

* * * *

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.

* * * *

Boston University's Fatherhood Project now offers programs for both mothers and fathers alike in recognition of the stress and complexity of family life. Workshops being offered this fall are: "Becoming Parents: A Workshop for Couples with Babies," Wednesday, 6-8:30 p.m., October 2-November 20; "Co-parenting: Balancing Work and Family," Tuesday, 6-8:30 p.m., Oct. 1-Nov. 19; "Single Parenting: Going it Alone," Tuesday, 6-8:30 p.m., Oct. 8-Nov. 26; "Step-Parenting: The Second Time Around," Wednesday, 6-8:30 p.m., Oct. 9-Nov. 27. All workshops will be held at Boston University's School of Education, 605 Commonwealth Ave., Boston. For reg. info., contact Dr. Ronald Levant at 353-4227.

No greater tribute is possible.

At concert's end, Gavrilov was pleaded with for encores, of which he provided two (both Etude Tableaux). His body motions throughout were flashy but never extraneous, always eminently appropriate for every piece; his appearance was extremely likeable, and his music absolutely captivating. Tears formed in my eyes more than once. His first-half performance of Scriabin's left-handed prelude was perhaps the loveliest work on the bill; its performance was texturally perfect and ultimately captivating.

I could go on, but I would become redundant before long; therefore, let me again thank *The Tech* for the exceptional opportunity it has provided me and all MIT students in offering these cut-rate tickets for such exceptional musical events in the Boston area. I will remember those two at least for a very long time.

David Saslav '87



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First woman astronaut speaks about shuttle

By Robie Silbergleit

Feature

Astronaut Sally K. Ride, the first American woman in space, presented a "home movie" of her 1984 shuttle flight last Thursday. Her lecture was sponsored by the Lecture Series Committee (LSC). Ride narrated a 20-minute film made of shots taken during her second flight. "It turns out astronauts are really a lot like tourists. We get up into the space shuttle and all we want to do is take pictures," she said.

Ride first entered orbit on the flight of Challenger 2, the seventh shuttle mission, in June 1983. But "I've had to talk so much about that" first flight, Ride said, "that I'm tired of it and that's all you're going to hear about my first flight."

Ride's second mission on Oct. 5, 1984, was dedicated to geological science, and included an oceanographer and a Canadian astronomer in addition to the five career-astronaut crew. It was the first shuttle mission to carry a Canadian astronaut and the first to carry two female astronauts. The flight was the second to land at Kennedy Space Center in Florida instead of Edward's Air Force base in California.

Ride's film chronicled the mission from the breakfast before the launch through touchdown. It featured shots from most aspects of the mission, including a satellite launch, a space walk by two crew members and many pictures of the earth. Ride spoke about the mission:

- The moat around the landing strip at Kennedy Space Center is a wilderness reservation and is filled with alligators. She said this provided added incentive for the pilot to make a good landing on the runway;

- The way astronauts orient themselves in the cabin "evolves" during the course of the mission due to weightlessness. Most crew members kept themselves perpendicular to the Earth at the beginning of the mission. But after several days in zero gravity, "people

are every which way and there's no concern with up and down;"

- The National Aeronautics and Space Administration (NASA) uses 25 T38 jet airplanes to maintain the astronaut-pilots' flying proficiency. Shuttle crew members are informally taught how to fly the airplanes as they gain proficiency in navigation and communication. Also, all astronauts are allowed to use the planes for travel as well as training.

Ride became an astronaut in 1978. She was chosen from an applicant pool NASA developed to meet the personnel needs of the then-new space shuttle program.

She became a member of the first group of astronauts selected since the mid-1960s. The first six women in the astronaut program were among the 15 astronaut-pilots and 20 astronaut-scientists accepted in Ride's class.

The current NASA astronaut selection criteria, according to Ride, requires the applicant to be healthy, have eyesight correctable to 20/20, be between 5' and 6' 5" and have a bachelor's degree in math, engineering or science. Neither superior fitness nor graduate or post-graduate education is required, she said, but a graduate degree is helpful.

Ride has a PhD in physics from Stanford University, with concentrations in astrophysics and free electron laser research. NASA provides scientist-astronauts with the option of continuing research in their fields, Ride said. But since joining the space shuttle program, she no longer actively works solely in these fields.

A representative of LSC reported that 437 people attended Ride's lecture.

MIT Student Center Committee presents

COMEDY NIGHT

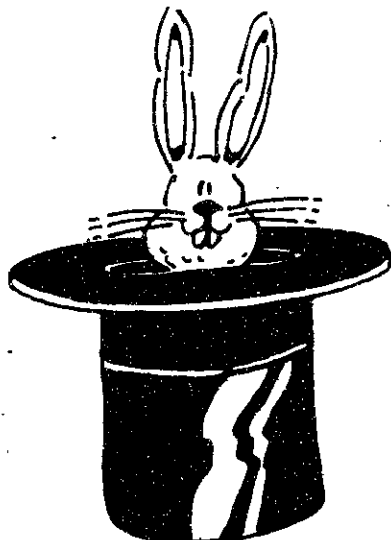
(Rescheduled due to Hurricane Gloria)

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Featuring

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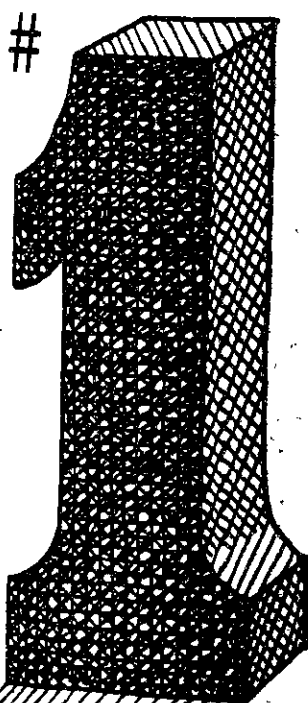
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President Gray speaks about future of education

Compiled by Thomas T. Huang
(The following is a summary of major points made by President Paul E. Gray '54 in "The Future of MIT as an Educational and Research Institution," Thursday.)

I have four comments about the context of your educational experience at the Institute:

1. There is much more to MIT than your formal term-by-term program. It's easier said than done — I know it is hard to focus on other things when you're worried about problem sets and quizzes. But it is important to keep in mind objectives "satisfied only if you make your education much more than the sum of the parts" — subjects, classes, papers and quizzes.

The student needs a balance in personal activities — outside of the classroom, in living groups, activities, and on athletic fields. Strive for personal growth. Your success lies not just in the mastery of skills and knowledge, but in the manner in which you develop interpersonal relationships.

2. There is an inevitability of change in your personal goals and professional program.

Prepare yourself to be effective over a working lifetime in a context which you can't predict or anticipate. Strive as early as possible for educational self-sufficiency — an independence and personal capacity to learn without formal structures, such as lecturers, quizzes, syllabi, course catalogs, and recitation instructors. Define for yourself the important questions not asked before, and learn to discover the answers for yourself.

3. Think of science and engineering in the context of contemporary society. The support of science depends a considerable degree on the support of the public at large. Technological problems grow out of social needs. Their solutions must satisfy those needs and must be harmonious with the social context. Side effects must be accounted for, and consequences must be explored.

4. I urge you to contemplate your experiences in terms of your responsibility to leadership. You are an elite, and I make no apology for that word. You are an elite in terms of intellectual ability, in terms of motivation, capacity for sustained effort, demonstrations and potential for creativity.

The future of this society... is in your hands.

Future of MIT

1. In 1980, I said MIT must rededicate science and technology as socially powerful activities. The future of civilization is inexorably tied to continued scientific progress and through the humane and thoughtful application of science. We must understand and engage the larger social, cultural and historical domains of which science and technology are a part.

The humanities, arts and social sciences are essential to our efforts as distinct intellectual disciplines, each with its own integrity, and as forces which develop a sense of time and place, encourage the arts of expression, and share the values necessary to complete the education of our students.

In 1985, there has been an important reorganization in the Provost's Office. The Committee on Educational Policy has fissioned into the Faculty Policy Committee and the Committee on Undergraduate Policy. There is going to be a curricular review, as well.

2. In 1980, I said we should review the character of the MIT

educational experience: the pace, the coherence and the intellectual impact. MIT students are highly motivated and committed to high achievement. Sustained hard work is the norm. The members of the faculty hold responsibilities to the Institute, to their professional commitments and to their personal families. This produces all too often a frenetic pace of life, self-rewarding, mutually reinforcing. But it is not without its costs.

It would be foolhardy to argue against the virtues of hard work. But should we not consider the possible benefits of more time for contemplation, for pursuit of interests and activities outside the professional realm and for developing friendships and a sense of community?

3. In 1980, I said that the issues centered on the human condition at MIT should be on the top of our agenda. We are concerned that we work to develop a community of the best faculty and student body from as diverse a population as possible.

A good deal of learning at

MIT is based on daily interactions among people of different backgrounds, experience and points of view. The international character at MIT has enriched the institution over a period of many years.

I believe the social and intellectual endowment of MIT will be similarly enriched by growing numbers of women, and of blacks, hispanics [and other] minorities. It should be our goal to make this a welcome environment for them, to attract them in growing numbers... to benefit from their creativity.

Now in 1985, as I look back, I must report that it is a mixed record. With respect to women at MIT, we have for the most part done well — not well enough — but well enough to support a certain amount of justifiable pride.

The number of women on the faculty for first time in history exceeds 100. Women make up 30 percent of the undergraduates. Women make up 20 to 22 percent of the graduate students.

With respect to minorities, in particular black Americans, we

have done very badly and have no reason for particular pride, no reason for complacency. There were more black Americans on the faculty five years ago than there are today. More black students entered MIT in 1975, than entered in 1985.

This dilemma is shared by the American higher education in general. The number of young black Americans pursuing collegiate studies has been in slow decline. The difficulties at the faculty level are to a large extent reflected by the fact that the fraction of doctoral degrees awarded to black Americans in the areas of engineering, physical science and life sciences remains at one percent.

The only thing we can be proud of is the number of engineering degrees awarded to black students: we are ninth in the nation. In general, there is much more cause for concern about how we do it better.

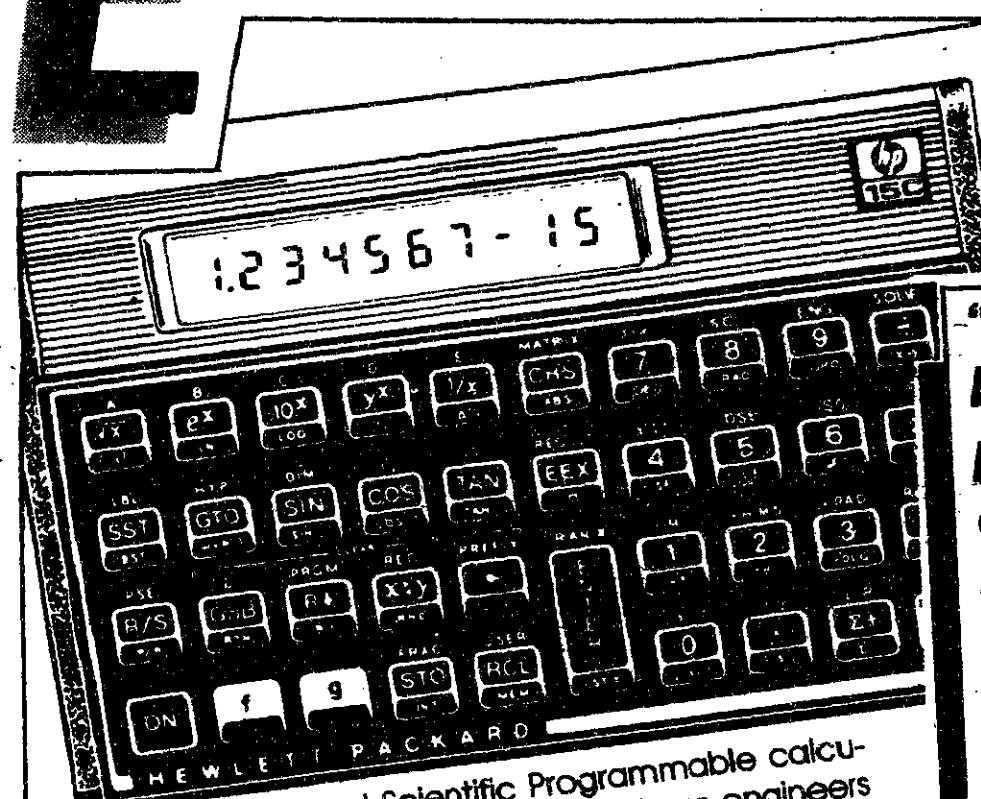
4. MIT has a pressing need to double the size of its underlying capital base — its endowment. If you compare the size of invested

capital with the size of the operating budget, you come up with interesting comparisons. The ratio is 1:1. At Harvard, 5:1. At Princeton 3.5:1. At Yale 3:1. At Stanford 1.5:1. The future of MIT depends significantly on increasing the capital base in the coming five- to ten-year period.

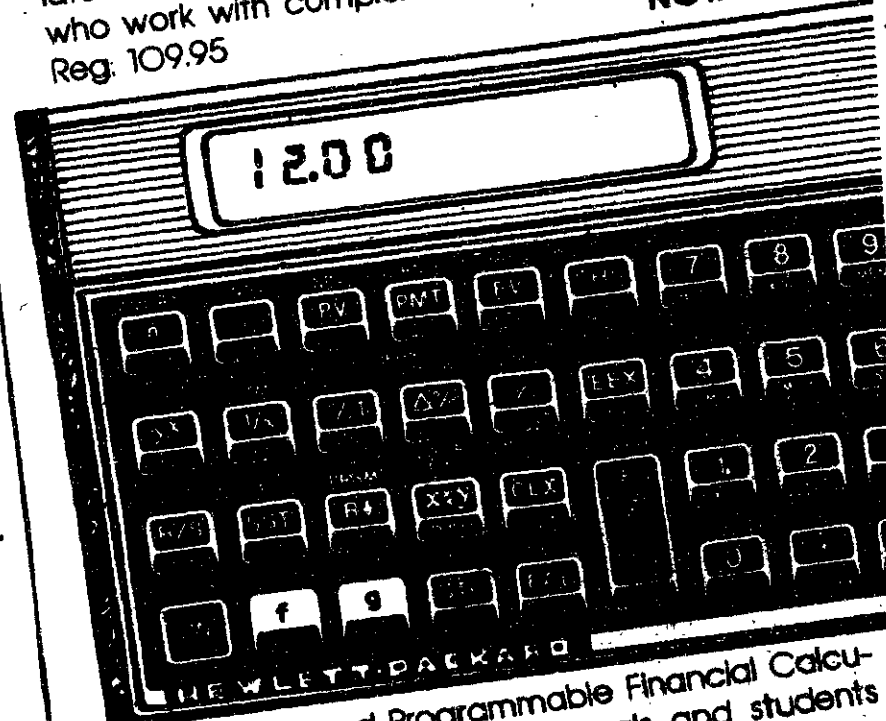
5. With respect to "Accuracy in Academia," there are volunteers in universities who attend lectures and take note of whether or not the teacher is — in that individual's view — presenting an appropriately unbiased view of whatever it is that happens to be the subject matter. Now it is of interest that this group which calls itself "Accuracy in Academia" is openly and strongly right-wing in its orientation. I have no idea whether it exists at MIT, but there are members of the faculty that are concerned about this kind of threat and the pressure which can arise from a group that is interested in presenting its own views.

We must not take for granted that an MIT education is a guaranteed freedom.

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2:00 - 4:00 Aurora Calculators
10:00 - 12:00 Smith Corona Typewriters

October 24th

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2:00 - 4:00 Sony Audio Products

October 25th

11:00 - 2:00 Panasonic Audio Products
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Meet the representatives from Hewlett Packard, October 24th at the MIT store from 10:00 4:00.

HARVARD COOPERATIVE SOCIETY **the Coop**

Harris discusses model black student-professional

(Wesley L. Harris, dean of the School of Engineering at the University of Connecticut at Storrs, presented the keynote address at the Thirteenth Annual Black Students Conference on Science and Technology last Friday.)

He is formerly a professor in the MIT Department of Aeronautics and Astronautics and director of the MIT Office of Minority Education. He was instrumental in the startup of such programs as Second Summer to encourage and support black students at MIT.

The speech is entitled: "What Constitutes the Model Black MIT Student-Professional.")

Gentlepersons, I am especially pleased to share this occasion with you. For you see, although I cannot walk and chew gum at the same time, I am *not* one of you — that is — an MIT alumni. When Mr. Cohen asked me to give some comments during your banquet, I immediately agreed because I believed he had your support and that he had his hands on your wallet. I now see that I remain a poor student of economics and an even poorer person.

Before saying nothing about the theme of this year's conference or about anything else, I will attempt to hold your attention by recalling one aspect of an event which occurred on this campus on Tuesday night, May 14, 1985. On that evening at about 10:30 pm in the MIT Faculty Club, the only *statement of significance* to be uttered by a black person at MIT was made. This SOS was made by my friend Dr. John B. Turner. Because you are black MIT alumni, this profound statement by John must be heard by you and be allowed to penetrate your consciousness. Get a copy before you leave this conference.

Legend and folklore have it that there exists a great university in this city of Cambridge. It is thought to be quite old, rich and distinguished. Legend and folklore also say that the greatest president of this university died some years ago and went straight to Hell. Yes, straight to Hell! Of course, this made Satan quite pleased. Satan had captured the ringleader of nonsense in the Western world. So old Satan decided to appoint this distinguished leader President of the University of Hell. After walking around, making observations . . . and developing a management plan, the ringleader agreed to accept the job. The ringleader said, "This is easy. What's the catch?" Old Satan agreed that there was a catch and with great excitement informed the ringleader that the University of Hell had two schools of medicine.

Now, I am really ready to take your money, waste your time and interrupt your "Miami Vice." The question this evening is: What is the model black MIT student-professional? Only with-

in this august audience does one have a chance of posing such a question. I assure you that one has absolutely no chance of answering or resolving that question. However, because I am an engineer from Princeton and ambiguity, dichotomy and conflict resolution are commonplace, I will proceed.

First, I will attempt to restate the problem. Let's reason this thing out. The only thing I need to do to resolve this problem is to integrate over this audience with the proper Green's function and Heaviside step function as my kernels and wrap the resulting infinite series around r in hyperspace. Now you know why white folks don't understand us! We are complicately complex.

Let's return to our search for the model black MIT student-professional. Is this student female or male or neither? Is this student from New York, NY, or Nevada, MO? Is this student an engineering major, a science major or a humanities major? Is this student a member of Tau Beta Pi or is this student one who keeps the CAP busy for long hours? Is this student one-dimensional, multi-dimensional or null-dimensional? Is the model dynamic or

static? Each of these questions have a bearing on the challenge. If we were only bright enough to think of all the other possible questions.

Now you must realize that Mr. Cohen has assured me that if I only give a partial answer this year, then he would invite me back next year so that I could repeat this disaster and also get paid for it!

To continue, I share with you my somewhat ancient views of what constitutes the model black MIT student-professional. I stated the salient features of the model in the spring of 1976 at the NSBE conference at Ohio State University and on several occasions on this campus. Recently the essential concept of my model has been used to give life to another model. I quote the following from Evelyn Fox Keller, professor of mathematics and humanities at Northeastern University:

"The very triumphs of modern science impel us to recall other, often forgotten dimensions of the promise of science — the search for understanding per se, for knowledge as a means of connection, of being in touch with the world around us. These, too, are

strains of the scientific aspiration, persisting throughout history in the practice of many scientists, even while absent from the prevailing ideology.

"As it happens, one of the best present-day examples is provided by a woman. Barbara McClintock, winner of the 1983 Nobel Prize in Medicine or Physiology, offers a vision of science that is predicated not on domination but on respect — above all on 'a feeling for the organism.' . . . To the question: What is wrong with dominating nature? McClintock's example provides an answer that goes beyond the familiar social and political arguments — an answer that must be heeded by all scientists on purely scientific grounds: It impedes our search for knowledge."

Let's use Keller's proposal to get a bit closer to resolving our issue. Suppose we delete/add a few nouns and pronouns in Keller's proposal. Say, Barbara McClintock is replaced by Arthur Lewis and that Medicine or Physiology is replaced by Economics. Then the question is: "What do we have?" The answer: BLACK ECONOMICS! I dare you to think BLACK SCIENCE!

Keller's proposal indicates the

importance of posing our questions in such a way that a wide spectrum of issues are presented. In the delineation of the salient feature of the model black MIT student-professional, we are compelled to ask what gender, social/economic background, course or major, performance level, dimensionality, time-profile and more.

Since each of you black MIT alumni falls outside of the null-set based on the above list of parameters (gender, dimensionality, etc.), you are each a model. Now I must assign each of you an ordinal number or risk observing orgastic opulence more mordacious than Jaws. I'll take names later!

In closing, we might reflect on the need to understand the importance of being able to define a model or the model black MIT student-professional. It is important for at least two reasons. First, such an understanding would allow us to identify the greatest change agent outside of the Pacific world. Second, such an understanding would initiate an integration of racial, emotional and intellectual properties. — true pluralism.

Thank you.

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Wrote Jonathan Richmond of Boston Lyric Opera Company's recent production of *Agrippina*: "In league with an orchestra whose every phrase provided pleasure, Boston Lyric Opera Company has produced an opera that would do justice to any stage in the world; this adventurous local-opera company is on strong form, and deserves Boston's attention."

Pictured here is a scene from *La Voix Humaine* by Poulenc to be performed by the Boston Lyric Opera Company on Friday, October 25. Also on the bill will be Walton's *Façaade*. Tickets — normally priced at \$15 — are available through *The Tech Performing Arts Series* for only \$6. Drop by the Technology Community Association, Room W20-450 in the Student Center, or call 253-4885 to check on availability.

Unfortunate performance by New Orchestra

The New Orchestra of Boston, conducted by John Harbison, American Academy of Arts and Sciences, October 19; Hermann Prey in *Die Winterreise*, Jordan Hall, October 18; Westminster Cathedral Choir, Symphony Hall, October 20. Event in *The Tech Performing Arts Series*.

David Epstein, conductor of the New Orchestra of Boston was unfortunately sick and unable to preside over Saturday's concert at the American Academy of Arts and Sciences. John Harbison stepped in to replace him, and perhaps these disrupted circumstances were partly responsible for a performance which under normal conditions might have marred the orchestra's reputation.

Mozart's *Divertimento in D*, K. 136, is an elegant work, but the New Orchestra played it without polish. The ensemble sounded thin and uneven: there was a particular problem in the first violin section, a failure to play *legato*. While there were some superficially attractive moments in the *Andante*, there was a lack of cohesiveness, of continuity, of style: The movement was therefore of little interest. Matters did not improve for the *Presto*: Uncoordinated, the finale sounded clumsy.

Arthur Berger's *Prelude, Aria and Waltz: Three Pieces for String Orchestra* — a parody on neo-classical themes — was more enjoyable. The Orchestra brought out the bold lines of the *Prelude*, and there were some poetically introspective passages in the *Aria* — including a nice viola solo by Eleftherios Eleftherakis. But there were also times when the *legato* was out of order, a problem which periodically threatened to emasculate the otherwise gripping *Waltz*.

Despite the thin-sounding *tutti* start to Mozart's *Piano Concerto No. 9*, K. 271,

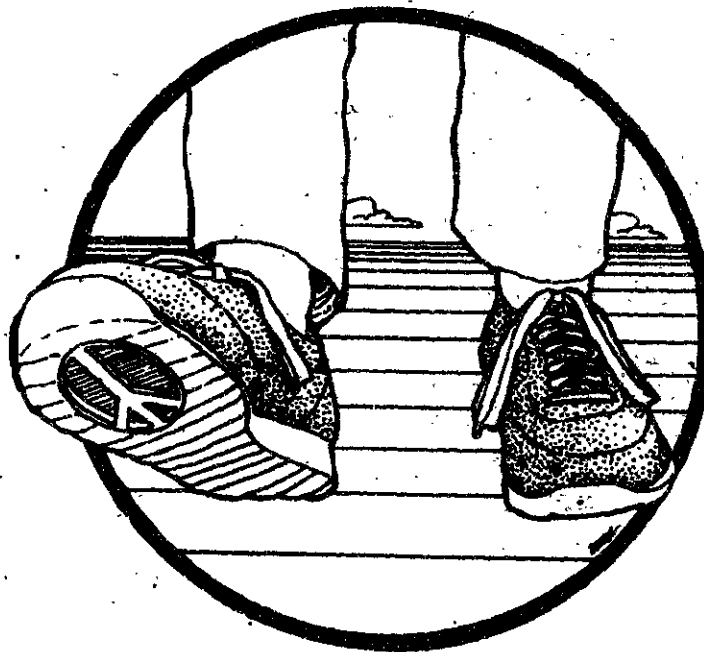
attention was soon drawn to the involved performance of soloist Thomas Lorango. His was a deeply personal reading of Mozart endowed with a light and free-flowing spirit simultaneously extrovert and inward-turned. Lorango's playing drew to mind Vladimir Ashkenazy's performance of Mozart: a style that is both intimate and fresh.

The *Andantino*, too, was given a muddled orchestral opening; but Lorango answered with straightforward but quite beautiful piano playing: He drew complex emotions out of simplicity and directness and inspired the orchestra into at last responding with a soft, supportive *legato*. Although the orchestra displayed further patchy playing in the *Rondo: Presto*, they were more relaxed towards the conclusion, displaying some of the agility we would have wished for throughout the afternoon.

Hermann Prey is a master of the lied. Prey's voice has a singular beauty that demands attention and draws the listener in to Schubert's special world of enchantment. His rendition of *Die Winterreise* Friday night had global appeal: It had romance, poetry, pathos. The tears could be heard flowing in *Gefrorene Tränen* ("Frozen Tears"), there was a gentle — but deep — passion to *Der Lindenbaum*, further embellished by accompanist Leonard Hokanson's immaculate piano playing, a flowing sadness to *Wasserflut* ("Torrent"), signs of joy and hope in *Frühlingstraum* (A Dream of Springtime), bitter — but still beautiful — crying-within during *Der Wegweiser* ("The Signpost"), a haunting transparency of voice for the concluding *Der Leiermann* ("The Organ-Grinder"): A moving evening to remember.

(Please turn to page 13)

PEACE ON FOOT



On Sunday, November 3rd, you, and thousands of other students across America have a chance to do something about nuclear weapons that could really make a difference. By participating in the November 3rd College Peacewalk you'll be giving your moral and financial support to next year's historic, 9-month Great Peace March. On March 1, 1986, five thousand people will

leave their jobs, schools, homes, and families to walk 3,235 miles across this country, from Los Angeles to Washington, D.C. Their goal: to rid the earth of nuclear weapons for good.

The nuclear arms race is not just another issue, and the November 3rd College Peacewalk is not just another walk-a-thon. So tie your shoe laces. We're going after peace. On foot.

The November 3rd College Peacewalk

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GO TO THE CIRCUS!

Ringling Bros. and Barnum & Bailey Circus, Sunday, October 20, appearing at the Boston Garden through Sunday, October 27. Ticket prices: \$15.00 (ringside), \$9.50, \$8.50, and \$6.50.

Ladies and gentlemen... children of all ages, the circus has come to town and you should go. The Greatest Show on Earth has once again lived up to its billing. Elephants and show girls in glimmering costumes, acrobats, and clowns provide a colorful backdrop to the death-defying feats of the aerial artists.

This year marks the 100th anniversary of the first performance of the Ringling Bros. Circus. To celebrate the occasion, stunningly attired performers of the "blue troop" reenacted highlights of circus history. Clowns carrying colorful banners depicted the 1919 marriage of the original Ringling Bros. Circus and the Barnum and Bailey Circus. Mishu, the world's smallest man — only 33 inches from head to toe and 22 pounds — delightfully portrayed circus legend General Tom Thumb.

Bouncing, frolicking clowns entertained the audience with their comical hijinks throughout the show. Prior to ringmaster Jim Ragona's opening of the show, individual clowns displayed their talents with

musical acts, tumbling, and the customary practical jokes. Frequent, well-choreographed clown acts provided an enjoyable transition between the many acts.

Early in the show came three rings of continuous teeterboard action. Center ring featured the Rodogel Troop, whose star performer did a full flip on high wooden stilts. Meanwhile, in ring three, The Mosoianus successfully completed a spring jump to a towering six person height.

Following intermission, trapeze artist Miguel Vasquez, the only human to conquer the quadruple somersault, once again successfully completed his "impossible" feat, to the awe of those watching. His Mexican family overshadowed the faltering Flying Ramons, who failed at their attempt at a triple somersault.

Special to the blue troop were two contortionists — Rudolph Delmonte and Nellie Ivanov. Delmonte, the better of the pair, was remarkable. His athletic performance convinced the audience that his body was made of rubber. For his finale, he performed repeated pushups, while balanced in a handstand with his legs tucked under his armpits.

Animal acts were a major focus of this year's show. Camels, dogs, bears, zebras

and, of course, the savage tigers were among the many trained beasts. The absence of superstar Gunther Gebel-Williams, currently on tour with the sister red troop, was noticed. The caged animal show, performed by Wade Burke in his Ringling Brothers and Barnum Bailey debut, was not impressive. Burke seemed unable to fully control the 15 somewhat sluggish tigers in his act. The expected mixture of breeds of jungle animals — a highlight of earlier shows — did not materialize.

The other animal acts demonstrated the skills of the trainers. As the elephants were making their debut, a young girl exclaimed, "Look mom, there are tons of elephants." Have you ever seen less than "tons" of elephants? In all seriousness,

though, the elephant acts were spectacular. Trainer Axel Gautier led the 250,000 pounds of pachyderms through numerous dance numbers as if they were Las Vegas showgirls. Well, almost.

The circus ended with a big bang — quite literally, as Captain Christopher was shot from a cannon the full length of the arena. The performers gathered for one final time to pay their farewells, wishing the audience that all its days be circus days.

The circus — supposedly for children — is really an excuse for adults to be infantile for two-and-a-half hours.

Take an escape back to the carefree days of childhood: Go to the circus.

Steven Wheatman
and Ellen L. Spero

The Tech Performing Arts Series presents...

BOSTON LYRIC OPERA COMPANY

La Voix Humaine & Façade

La Voix Humaine, Poulenc's tale of a woman who cannot face the end of an affair is paired with Walton's *Façade*.

Northeastern University, Alumni Auditorium.

October 25 at 8pm. MIT price: \$6.

ANNA RUSSELL

Farewell Boston appearance

Musical Parody, Anna Russell style.

Symphony Hall, October 25 at 8pm. MIT price: \$6

CHAMBER MUSIC SOCIETY

Boston, Lincoln Center joint concert

Members of the Chamber Music Society of Lincoln Center will join the Boston Chamber Music Society for a special gala concert of works by Doppler, Dvorak and Mendelssohn. Sanders Theatre, October 27, 8pm.

Tickets normally \$35 or \$12.50. MIT price: \$8 or \$5.

COLLAGE

MIT goes contemporary

MIT Professor John Harbison conducts Collage, the contemporary music ensemble, in 1985 Pulitzer Prize winner Stephen Albert's *Into Eclipse* and works by Christopher Rouse, Robert Selig and MIT senior lecturer Edward Cohen. Edward Pickman Hall, Longy School of Music, November 4, 8pm. MIT price: \$4.

Tickets for all four events are on sale courtesy of the Technology Community Association.

Drop by Room W20-450 in the Student Center, or call 253-4885 to check on availability.

The Tech Performing Arts Series, a service for the entire MIT community from The Tech, MIT's student newspaper.

GET OUT ON THE TOWN WITH
THE TECH PERFORMING ARTS SERIES. . . !

Cathedral Choir

(Continued from page 12)

Sunday afternoon, the Westminster Cathedral Choir brought bliss to Symphony Hall. Their voices have a tranfixing purity, their glorious polyphony at once human and spiritually sublime. The program put the Choir's versatility on display: The first group — of pieces by Whyte and Philips — brought out a compelling clarity and di-

rectness. Bruckner's *Ecce sacerdos* was propelled by divine splendor. Pieces by Delius, Stanford and Elgar evoked many colors, and some quite amazing boy soprano solo singing. Howells' *Motet on the Death of President Kennedy* was touching, its lament leaving the audience rapt in thought.

Jonathan Richmond

ARTS

ARTS

Williams relates civil rights movement to MIT

(Continued from page 1)

that all-American game basketball."

• **Dec. 1, 1954:** Rosa Parks refuses to give up her bus seat in Montgomery, Alabama. The civil rights movement begins. Dr. Martin Luther King Jr. is its leader.

• **Oct. 4, 1958:** A tremendous uproar in the US is caused by the launch of Sputnik by the Russians. MIT responds to the nation's technical needs.

"But when I discover that tuition is \$550 per semester at MIT, I keep my ambitions to myself because I believe my parents will have to sacrifice too much," Williams said.

• **Summer, 1959:** Williams conducts a single-person demonstration at his high school graduation. He graduates first in his class.

• **1960:** Williams sees Malcolm X on television saying, "Violence perpetrated by crackers on Negroes will be met by violence by Negroes on crackers." Malcolm X then became a hero of angry young men, Williams said.

• **Feb. 1, 1960:** Four Negro students go into a Woolworth's and demand to be served at the counter. Within a year, 70,000 sit-ins are conducted by college students across the South.

• **May, 1963:** Williams travels to Boston to gain admission to MIT.

"Look, you can't make it at MIT," the director of admissions informs Williams. "But look, if you want to come here, I'll let you come here and embarrass yourself, waste your time and spend your folks' money." Williams replies, "Fine, let me do that."

Ten years later, Williams was faculty marshall at the graduation ceremonies at which the director retired.

• **August, 1963:** Williams enters MIT as an undergraduate. On August 28, on his way to Boston, he attends King's "I Have a Dream" speech in Washington, DC.

Williams is one of three Negro freshmen at MIT. The total number of women enrolled at MIT in his four years exceeds 100; "however, there are no Negro women."

The assassination of President John F. Kennedy "fortells one of the most turbulent" eras in the nation's history, according to Williams.

• **1964:** King wins a Nobel Peace Prize. "Without Malcolm, there would be no peace prize for Martin," Williams said.

The first Negro woman comes to MIT.

• **Mid-1960s:** Riots over racial issues plague the nation.

• **By 1966:** "Isolation of minority students at MIT, especially females, and the national movement" prompt discussion among minorities at MIT. Williams said the sole outcome of the meetings was the decision that MIT should increase the number of black students.

The concept of black power transforms Negroes to black people, Williams said. Most leaders of the black movement at that time resist the change, according to Williams.

• **1967:** Williams considers applying to graduate school. His academic advisor suggests that he should "go back to Virginia [because] you have exceeded your parents' achievements."

• **Summer, 1967:** 70 cities in 22 states are hit by riots. Williams is now one of 16 minority graduate students entering MIT.

• **April, 1968:** King is assassinated on Williams' birthday. Two months later, Robert F. Kennedy is assassinated. MIT accepts 59 minorities, 52 of whom are black, into the first "big class" of minorities at MIT.

• **1970:** National guardsmen shoot students at Jackson State

and Kent State. Williams is appointed assistant professor in MIT's Department of Mechanical Engineering in this "time of transition." He is the only black professor in the school of engineering at that time.

Black students shut down an MIT faculty party. The students call for the admission of more black students and additional support for black students already at the Institute. Williams and three of his colleagues on the faculty back the students.

• **1972:** Professor of Aeronautics and Astronautics Wesley L. Harris, Associate Dean for Student Affairs Mary Hope and many other minority faculty and administration members arrive at MIT.

"Through meetings on the Task Force on Educational Opportunities, whatever that is, the concept of the Commission on Minority Education is formed. . . . As one of the architects of that concept, I'm asked

to chair that commission.

"Black students [were] flunking out like mad." It was "a national issue. Black students everywhere [were] flunking out of engineering and science," Williams said.

The improvements in education that would benefit "black students will help white students."

Williams proposed to the MIT administration that he be supported in his Commission efforts for two years, at which time he would resign his faculty position. The Institute declined his offer and asks him to pursue the Commission in addition to his responsibilities as an assistant professor.

Williams does not accept the position for two reasons: the "master's view of our problems will always be less than our view of our problems, and the master's solutions to our problems will always be less than what we need; [secondly] I choose my own battles. So if the master asked me to undertake a battle that will benefit the institution, he's got to

give me the resources that I need in order to be able to have a chance at being successful according to my criteria."

• **1975:** Wesley Harris is appointed first director of the Office of Minority Education (OME).

• **1980:** Shirley M. McBay is appointed dean for student affairs, Paul E. Gray '54 becomes president of MIT and Ronald Reagan is elected president of the United States, Williams said.

• **November, 1983:** The insensitive dismissal of Mary Hope "displayed not only a lack of compassion for a sister but also demonstrated an appalling ignorance of both the history and sentiments of the minority community at MIT. The irony is that . . . a whole lot of you don't even know who Mary Hope is. . . . In my opinion the initial support and existence of this conference and its year-by-year persistence" is due to Hope.

"Why am I here?"

Williams discussed a "double-edged sword called affirmative action. I was winning awards, but a job was being done on my head," he said. He characterized affirmative action backlash as the master saying, "If you succeed at something, it is because of our generosity."

He explained to the audience why he remains as a member of the faculty if he is not pleased with the state of MIT. He is "here by [his] selection for the fulfillment of [his] professional goals."

Because MIT is "paid for substantially by the federal government," Williams said, "it belongs to me as much as anybody."

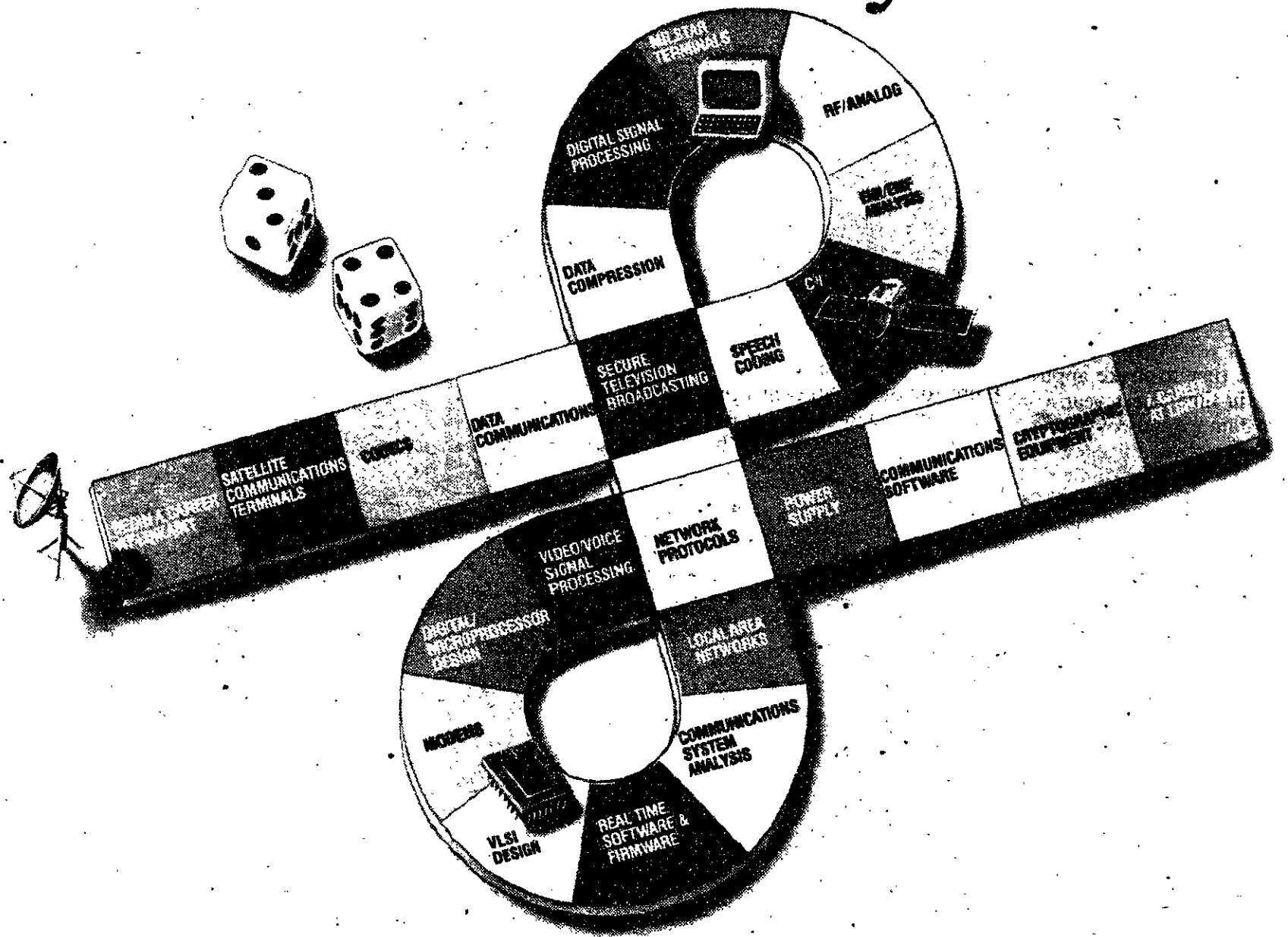
The state of minority affairs

Minority affairs are presently "in a mess," Williams said, adding that conditions are worsening. "Some of us, in fact now, some of us here believe that our phones are tapped. Some of us

(Please turn to page 15)

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COMPANY PRESENTATION
Wednesday, November 6-7:00-9:00 pm
Building 12, Room 102
***Refreshments will be served.**
ON-CAMPUS INTERVIEWS
Thursday, November 7

Williams offers advice to minorities

(Continued from page 14)

believe that the master has secret files on us and in fact we know that. And in many instances these files are maintained by our own sisters and brothers. Some of us ... are paid less than our comparable white colleagues."

"We [minorities] are devouring ourselves," Williams continued, because of the lack of a common agenda and a common vision. "Many of us are getting very tired."

There is very little camaraderie among minority members within MIT, as jealousy is common. No common agenda "is our major failure," Williams explained.

The minority community's leaders are "hand-picked by the master." Some blacks are used to take the pulse of the black community, to relieve the master's guilt complexes and are provided as leaders, Williams said.

"These Negroes are not the leaders of anyone except other Negroes," Williams said. He found "them capriciously insensitive to the educational needs of our young people. They occupy a particular no-man's land," Williams said.

These "hand-picked leaders" constitute:

- "a greedy bunch. ... They have actually stripped OME of any black faculty participation. They want OME to be charge of Negroes." An OME "operated by

an Office of Student Affairs [is an] insult. ... Nowhere at MIT is there a comparable treatment of white educational activities."

- a "staff [that] is being advertised. He's saying, 'Hey, everybody, check these niggers out down here.'"

Williams also discussed issues of quantity and quality:

The "number of black freshmen has decreased. Over the past decade, the number of minorities has decreased [and] the number of black faculty has decreased."

"Many of the people who have left here are better than those who remain. But the master has control of our blood." Blacks coming to MIT are "coming in the person of new niggers ... as students, faculty and administrators," Williams explained.

They are characterized by thinking "they are here on the individual basis of their own merit," they "have no concept of what went down before they arrived ... they will argue that in the year of 1985, there is equality" and "new nigger professors don't realize that they're here on a two-for-one basis," Williams said.

"What should I do?"

"Nothing I have said, say today, or will ever say should suggest that you should hate anyone," Williams said. He encouraged the students to strive for equality

in education through action, but equated hatred with sickness. "Hate destroys the hater more than the hated."

Williams asked his audience to "to think, and then act. ... You are being trained, not educated. Many of you are so simple-minded that you don't care."

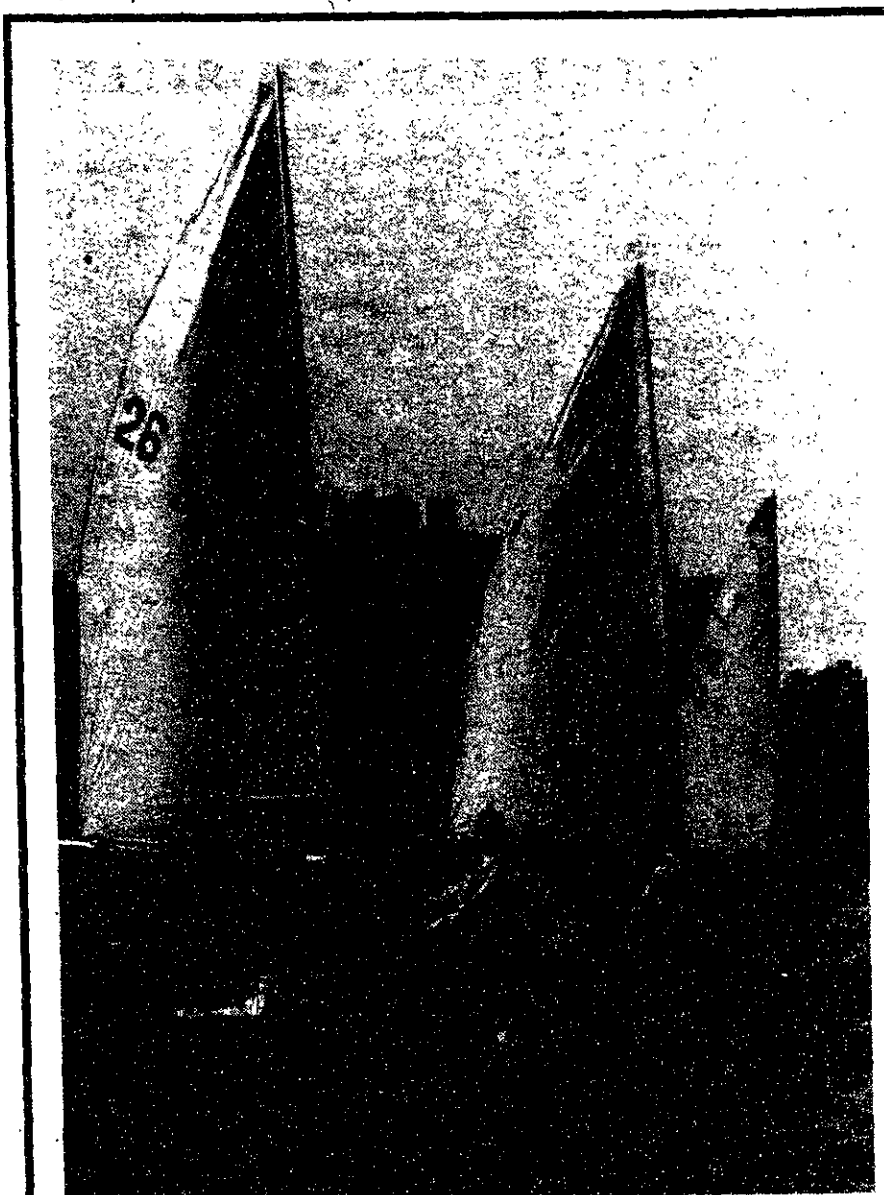
The re-evaluation that MIT is conducting on its undergraduate curriculum has little to do with blacks, Williams said.

"The education ... for black people on campus will be lacking in the new MIT education," he said. "You will not be poised for leadership. At MIT today, you are being trained into mediocrity, not educated into superiority."

Advice to minority students

Williams concluded his talk with four final points:

- Ignore those people who attempt to limit your education.
 - Study extremely hard to develop skills to make you first class in creative areas.
 - "Get the hell out of here when you graduate, then pursue those goals."
 - When you look back at the blacks here at MIT, "ignore us. There are no black heroes here."
- "The civil rights movement has stalled because it is dead. We are now in an equality movement. We cannot adopt the master's rules. They have failed us."



Tech photo by Steve Y. Kishi

Don Hejna '89 and Kyle Peltonen '89 approach the half-way marker in Sundays Freshman Regatta. MIT finished 8th in against 12 colleges.

Scholarship program instituted

(Continued from page 2)

wasn't perfect."

"The upperclass financial aid and process mailing begins in the beginning to middle of July. ... All of the upperclass students who receive any type of financial aid receive a letter. We hope that with a second year that [students] will have the time to make application ... in time" next year.

The program extends over two years because "time is needed to see how it works," according to Manning. "One year is just not long enough."

"The number [of scholarships] that have actually come in that have been treated under the new policy is 24," Miller said. "That is a very small number [and] that is why we're doing a two-year program."

Program evaluated in two years

Manning said the main criteria for evaluation of the incentive program will be an analysis of how many students use the program and how well it works. "I have confidence it will continue ... it is a sensible plan," he said.

"We will evaluate [the program] at the end of the two-year program," Miller said. The SFAO is "looking for hard data [such as] the number of students who participated" in the program, she explained, and "soft data such as student, faculty and administration reactions ... things that are impossible to quantify."

"If a student who fell under the pilot program received a reduction of NDSL for his or her scholarship, the reduction will

continue past the two-year period," if the outside scholarship is retained, Miller added.

Manning said that CUAFA is very concerned with developing a flexible financial aid policy.

Jobs available on campus

"There seems to be, from what [Director of the Student Employment Office Jane] Smith told me, a slight increase in the number of students working on campus at this time," said Miller. But "this could change. ... It may not hold true all year."

"Jobs are there. I believe the office has been used equally as in the past."

Financial aid may be confusing

Miller cited two reasons that students may be confused about the SFAO's responsibilities. "Financial aid offices are different at every school," she said. That is "particular [confusing] with freshmen, particularly with [MIT's] work program. People just can't fathom it."

Also, the SFAO is "involved in a lot of different areas," she explained. "Any dealing with money is cause for great seriousness and consternation. That is a human trait."

A booklet recently published by the SFAO "addresses questions and misconceptions that continue to be popular on campus," Miller said. "I don't know the specific impetus" for the publication, but the "development took at least one year."

notices

Ongoing

The Project for American Israeli Research, Inc., a non-profit organization, is currently recruiting students from Boston area universities to perform research locally for Israeli businesses, government offices, academic and scientific institutions. Research projects will be available in many fields, including marketing, finance, law, computers, engineering, design and others. Duration of the project varies dependent on specific requirements of the Israeli sponsor.

P.A.I.R.'s objective is to strengthen the relationship of American university students to Israel and contribute to Israel's economic growth by enabling students to donate their skills as researchers. Students may arrange to receive academic credit for projects. Projects may lead to thesis work, internships, or future employment in Israel. Graduate and undergraduate student applicants accepted. For more information, please contact Tamra Morris, Executive Director, Project for American-Israeli Research, Inc., 479 Statler Office Building, Boston MA 02116

Discuss Your Future With General Electric

Who?

BS and MS candidates in electrical engineering, computer science, mechanical engineering, chemical engineering, aeronautical engineering and nuclear engineering.

What?

Informational meeting on career opportunities within the General Electric Company. Recent MIT grads will provide their views on the transition from MIT to GE via various entry level alternatives:

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- Chemical-Metallurgical Management Program
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- Individualized Direct Placement

Opportunities exist in such fields as:

- Artificial Intelligence
- Expert Systems
- VLSI
- Robotics
- CAD/CAE/CAM
- Computer Graphics
- Plastics
- Metallurgy
- Ceramics
- Software Engineering
- Signal Processing
- Controls

For more information on these programs and the major business areas available refer to the General Electric file located in your placement office.

When and Where?

Thursday, October 24th, 5:00 — 6:00 p.m.
Bldg. 4, Rm. 149

What else?

Informal mixer with various GE technical recruiters. Refreshments served.

When and Where?

Immediately following recent MIT graduate's presentations 6:00 — 7:00 p.m. Same location.

The future is working at General Electric



An equal opportunity employer

Conference examines "The MIT Experience"

(Continued from page 1)

truth, you see.

"And the reason I can tell it is because I've watched the hour hand over a period of time. All you're doing is looking at the hour hand and you're trying tell whether or not the clock is moving or stopped or working, you see . . . I'm telling you that you haven't put together a good conference . . ."

Ernest M. Cohen '64, treasurer of the New England section of Black Alumni at MIT, said, "The idea is to try to bring out important issues, techniques and approaches with the idea that we use the experiences of minorities who graduated from here to help undergraduates with the experience [here] and in the outside world."

One of the most important goals of the conference "is to present role models to MIT students. Minority students can often feel quite isolated," he explained. The speakers hope "to remove the isolation and maintain a proper perspective."

In the past years, the conference "concentrated on problems outside of MIT. This year, we thought we would look at making minority students at MIT successful students by looking at MIT education," Cohen said. The conference would also examine the role of minorities in the MIT culture.

This includes learning how to get things done, and how to interact with faculty, staff and offices, Cohen said. "This includes building self-confidence."

"Not only do we want to increase the yield of minority students, but we want to see more minority students graduating and moving successfully on with their careers," he said.

Cohen described several important skills: gathering information from people around you; salvaging mistakes gracefully and learning to present your work and yourself.

Gray sees MIT in future years

(Continued from page 1)

ment must be doubled to make it comparable to those of Harvard, Princeton and other such schools, he said.

Gray spoke on the importance of education outside of the classroom: "Not all of your education occurs in classrooms. Much is in living groups and on athletic fields."

He also urged students to strive for "educational self-sufficiency," the ability to learn without formal teaching. Achieve this objective at MIT and you are prepared, Gray said.

The most important skills MIT can teach are working hard and thinking analytically, Gray said, citing a recent alumni survey. Technology changes quickly and what one learns at MIT might soon be outdated. Critical-thinking skills will remain useful throughout life, he concluded.

Approximately 100 people attended the speech, sponsored by the Lecture Series Committee.

Petition against SDI research

(Continued from page 1)

campus. . . . As a group, we don't take a position, but as individuals we do. I signed that pledge. I helped to circulate that petition."

Linn agreed: "Our main orientation is as an educational group. I do not try to hide the fact that I am opposed to SDI, but we [the DSG] aim not to be partisan. We encourage the expression of all points of view at our meetings."

All activities were open to all members of the MIT community. "Although we have not stated that, it has always been our policy," he said.

Workshop discussions

There were "workshop opportunities to maximize exchange between speakers and students," Cohen said.

In the morning session on "Skill in Social Interaction: A Necessity for Success," Campus Police Officer Ted Lewis said, "being successful calls for a vision — a way of communicating with the brain." Something in our subconscious causes us not to succeed; fear, which stands for "false education," appears real.

Many MIT students fear they will not satisfy what they perceive

to be the expectations of others, he said. One has to read, study successful people, visualize one's own success and perform in order to succeed.

Lewis offered the following guidelines for success within an organization: early training and education, effective management of meetings, professional visibility, knowledge of how to make decisions and awareness of current developments in one's field.

"It's important to keep a positive attitude," Lewis said. "Everything is a learning experience."

Negative reinforcement is acceptable as long as one has the attitude that "if you don't believe I can do it, let me show you I can do it," said John Searles '86, a panelist on the plenary committee.

Five panelists discussed issues of personal development at one of three workshops held Saturday afternoon. The discussion began with a comparison of MIT to other undergraduate universities. Three of the panelists were graduate students who attended undergraduate institutions other than MIT.

In the workshop on professional development, David Tribble G described the key qualities necessary for success in one's profession: confidence; diplomacy — providing constructive rather than brutal criticism; jargon — learning to think like the people you talk to; aggressiveness; communication; and execution of bureaucracy.

"I think there are a lot of people left by the wayside who never

graduate or who never catch up," said Kyla Thomas '86, one of two attendants at the Personal Development Workshop.

"Do [professors] really care about undergraduate education?" asked Tara Adams '86, a member of the workshop's panel.

"The breakneck pace may be squelching what we're trying to do here," said Jann Primus G, another member of the panel. "We need to have a bigger view of what's important. MIT is not the most important thing in the world. If you haven't developed new knowledge besides your subject, then MIT hasn't done its job."

"We've become a lot more comfortable with not doing well," Adams added.

IMAGINE WHAT YOU COULD BE DOING AT HARRIS!

Find out at our OPEN HOUSE
Tuesday (Oct. 29) from 6 PM to 9 PM
Hyatt Regency Cambridge (see lobby board for location)
575 Memorial Drive

Several of our Technical Managers will be there to talk with you. Refreshments will be served.

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Openings exist with Harris in New York State and various locations in Florida. We are interested in meeting candidates at all degree levels in:

EE, AE, CS, Computer Engineering

On-Campus Interviews
Wednesday (Oct. 30)

See your Placement Office for details

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HARRIS
 TAKING TECHNOLOGY FURTHER

Lincoln Labs pivotal in SDI high technology

(Continued from page 1)

added. The mirror, aboard a space shuttle in low orbit, reflected a ground-based laser.

"The Strategic Defense Initiative may be new, but the work is not new to us. We've been at it for 30 years," Morrow said. SDI is a logical outgrowth of Lincoln's earlier work, which centered on using radar and computers to track missile flight paths, Morrow continued.

The laboratory was created in 1951 to develop a national air defense system and has continually researched military defense system technology, he said.

Pentagon sponsors most research

SDI research provides approximately five percent of Lincoln's \$300 million annual budget, Morrow said. The lab was the 12th-largest recipient of SDI funding as of September 1984, according to Pentagon figures. SDI research funding could potentially reach \$26 billion, he continued.

The Pentagon sponsors nearly 90 percent of the work at the laboratory, with approximately about 40 percent of the activity classified, Morrow said.

All Lincoln research deals with electronic equipment such as radar, communications equipment, computers, and other electronic devices.

Basic and applied research done at the lab is unclassified and published in scientific literature, Morrow said. Although there is classified work in more advanced stages of research, no engineering prototypes are produced at the lab, he added.

Institute policy forbids classified research on campus. The Radiation Laboratory and the Instrumentation Laboratory (now the Charles Stark Draper Laboratory), began performing classified research on campus during World War II, when military police were stationed throughout the campus to guard classified facilities. During the 1950s and 1960s these laboratories moved off-campus and divested from MIT.

"It was clear that there was a basic incompatibility with classified research on campus," Morrow said.

notices

Listings

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

Ongoing

Getting High? or Getting Desperate? If drugs are becoming a problem. . . Narcotics Anonymous, 569-8792.

P.O. Box 142, New Town Branch, Boston 02258

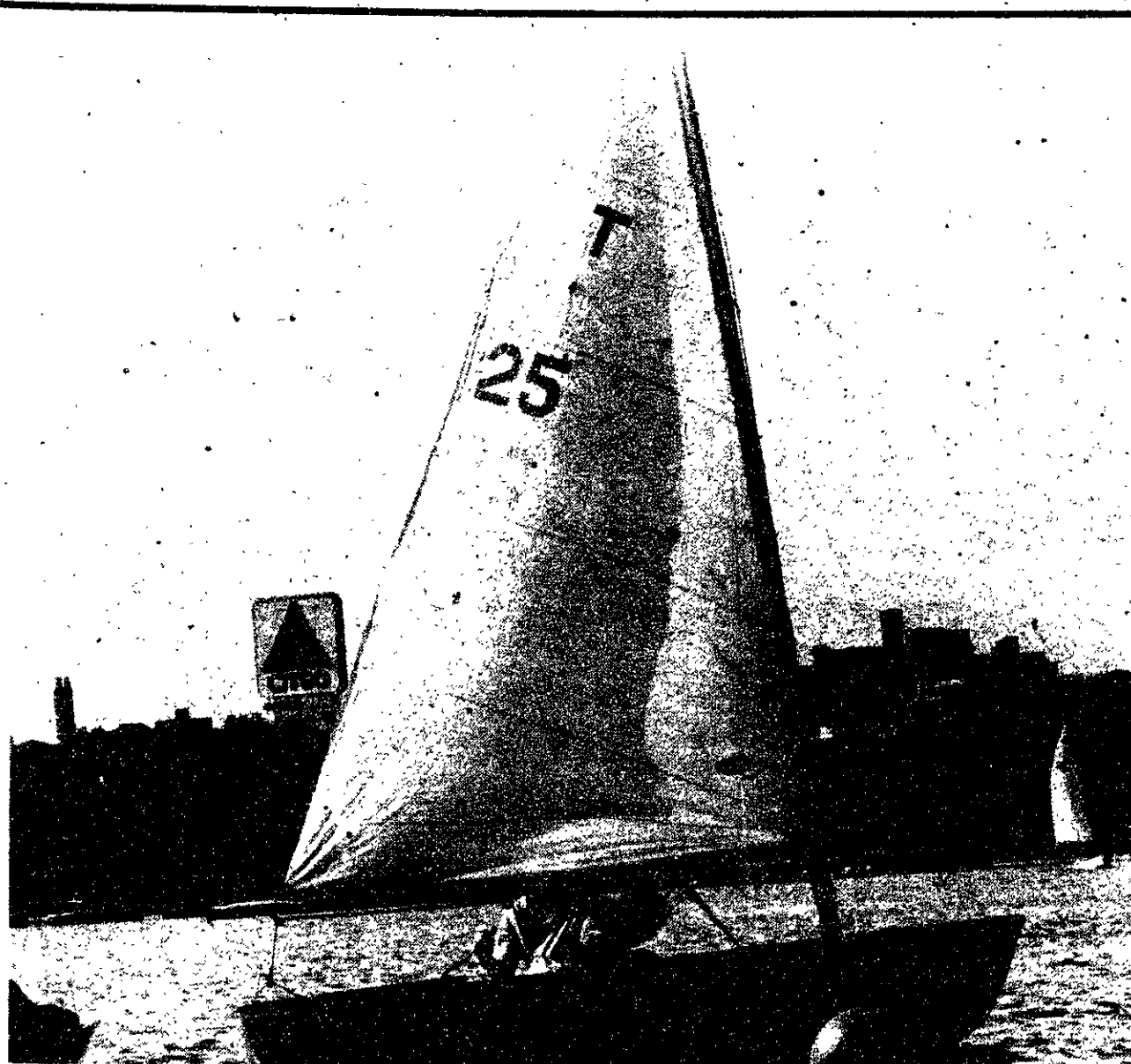
Local Meetings: MIT Medical Department, Building E-23, Room 364, 25 Carleton Street, Mondays, 1:00-2:00 p.m.

Morrow thought it unlikely that Lincoln Laboratory would divest from MIT. It is off-campus near Hanscom Field Air Force Base, and the fundamental research performed produces no operational systems, he said. There is also no pressure from the Pentagon for Lincoln to divest, Morrow added.

Most of the MIT faculty members conducting research at Lincoln are involved with unclassified projects, although some do consult in classified areas, he said. All of the approximately 30 graduate theses completed there each year are unclassified, he said. Between 60 and 80 students also perform unclassified work during the summer through various special programs.

Foreign students may not work at Lincoln, however. "A committee established by the provost recommended that once foreign students are on campus, they can participate in any program. This does not apply to Lincoln Lab," said Kenneth A. Smith, associate provost and vice-president for research.

Lincoln has special facilities not available on the MIT campus; despite this fact, "there is no reason to duplicate the same facilities on campus," Morrow said.



Tech photo Steve Y. Kishi

Don Hejna '89 and Kyle Peltonen '89 round the marker Sunday in the 1985 Freshman Regatta. Competitors from 12 colleges participated, and MIT finished 8th.

The most interesting jobs in the world are four miles west of here.

If you like Cambridge, you're going to love Bolt Beranek and Newman (or "BBN" as we're better known). We're one of the world's leading centers for research and development in parallel processing architecture and programming, expert systems, speech processing, architectural and underwater acoustics, natural language interface, and basic and applied artificial intelligence. And, we do more than R&D. We're a market leader in packet switch data communications; we've built some of the most sophisticated data networks in the world for companies like Wang and MCI.



We've developed a software package for scientific and engineering research that's unmatched in the industry (it's called RS/1, and it's used in Project Athena).

We'd like to introduce ourselves, show you around, and let you talk to some of the MIT grads who have made the move from Kendall Square to Fresh Pond Circle. If your major is in electrical engineering, physical or computer sciences, it's an opportunity you shouldn't miss.

Visit BBN October 25, 1985 Open House for MIT Students

Time: 3:00-5:30 p.m.

Transportation: 2:30 p.m. pickup in front of the Administration Building Main Entrance on Mass Ave. (Bus transportation provided by BBN)

Location: 70 Fawcett Street, Cambridge, MA

Signup: Office of Career Planning and Placement by Wednesday, October 23

For further information call Christine Lancione at BBN, 497-3288.



Tech Photos by Stephen P. Berczuk

Another opening. . . John Port '86 of the MIT Musical Theatre Guild (left) and Brian Latt '86 of the Shakespeare Ensemble work on assembling their respective shows. MTG opens *Brigadoon* Thursday in Kresge Little Theatre. Shakespeare opens Thursday with *Much Ado About Nothing* in the Sala de Puerto Rico.

Turkeys tie Crimson

(Continued from page 20)
play guaranteed to work using magnetism. Excitement filled *The Tech* huddle as Stan diagrammed his play.

As the team emerged from the huddle, all the players lined to the right side of the quarterback. Sure enough, all the *Crimson* players followed suit. Quarterback Minor Huffman handed off to tailback Harold Stern who found Extra wide open on the left side of the field. The perfectly

timed play yielded a 25-yard gain, the longest of the day.

But the offense could move no further. *The Tech* once again resorted to its bread-and-butter play — the punt. As the end of the game neared, the Wild Turkeys desperately tried for a last-second field goal through the Kennedy School building window. The kick landed harmlessly on the head of a six-year-old bystander.

notices

Announcements

ATTN SENIORS:

Those who wish to apply for graduate study in the Department of Electrical Engineering and Computer Science during 1986 are urged to apply by Nov. 1, 1985. Applications may be picked up in Rooms 38-444 and 3-103.

* * * * *
The MIT basketball cheerleading squad is looking for a coach. Anyone with cheerleading experience should contact Paula Blizard, basketball cheerleading captain, at 225-8522.

* * * * *
Undergraduates who are interested in communicating with high school students (and guidance counselors) what it's like to be an MIT student are encouraged to join **Project Contact**. For more information please contact the Educational Council Office, 4-240, 253-3354.

FINANCIAL AID OFFICE NOTICE:

The "Statement of Registration Status" is still required of all male students who are (by law) expected to register for the draft, if they desire to receive federal financial aid.

Whether the "Statement" is also required of all *other* students as well, and whether it is required *every year*, have become an institutional option.

MIT is opting *not* to require the "Statement" of women, or of students whose date of birth indicates they are not required to register for the draft.

MIT is opting not to require annual submission of the "Statement" by male students who have once indicated that they have registered.

Male students who have completed the "Statement" by indicating they are "underage" will

be required by MIT (as a condition for receiving federal aid) to submit the "Statement" annually until they state that they are registered.

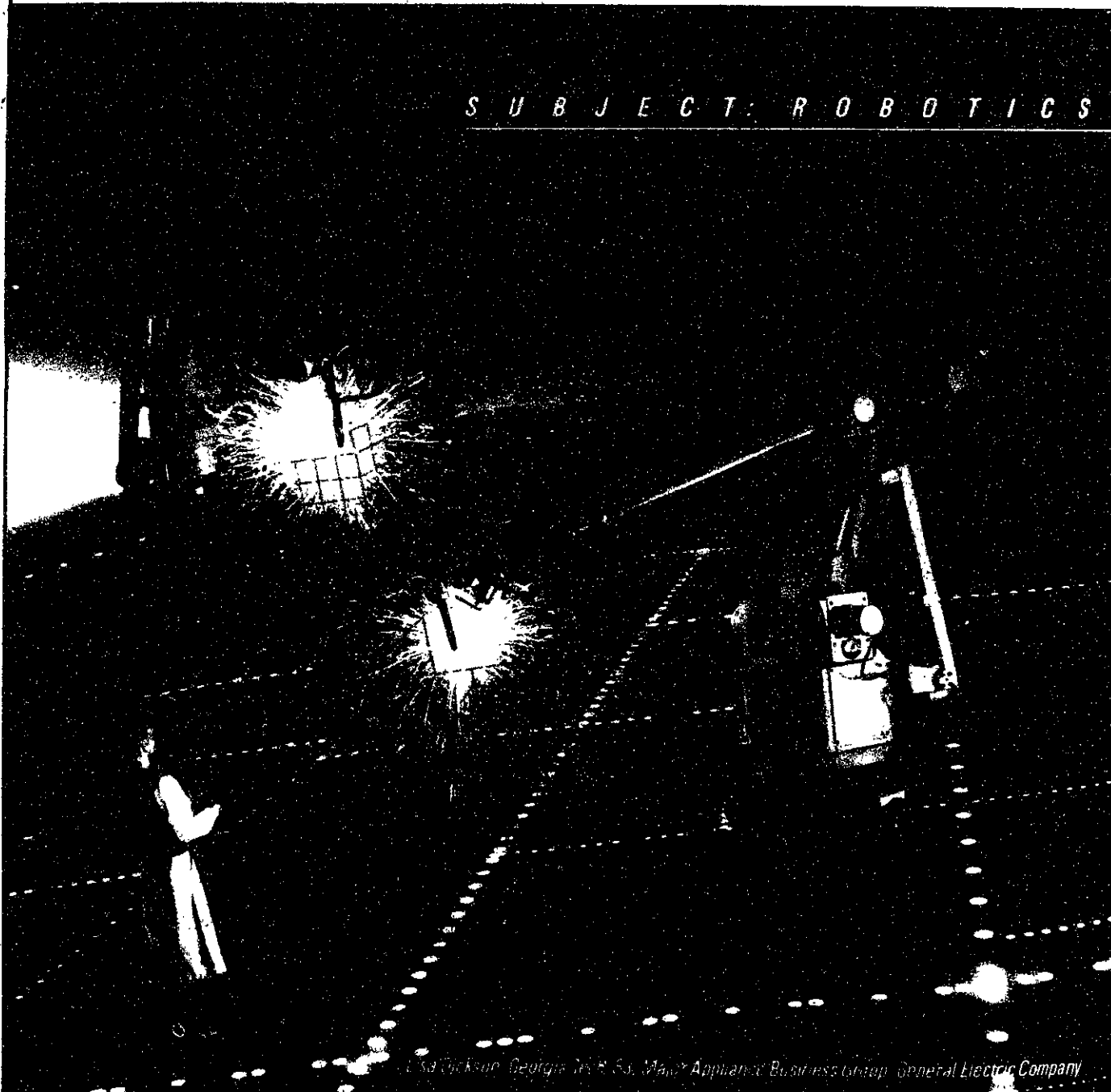
Student aid delivery agencies other than MIT are free to exercise the new options differently. Students may therefore find that GSL lenders and state scholarship agencies require the "Statement" where MIT does not. And we suspect that applications for Pell Grant will still be consummated by the student's completing the "Statement" reproduced on the Pell "SAR."

* * * * *
HTLV-III SCREENING
Counseling and blood screening services for individuals concerned about exposure to the virus associated with AIDS. For more information about this free confidential service sponsored by the Department of Public Health and Counseling Services, Inc., call (617) 522-4090. Weekdays 9 am to 5 pm. Outside Boston call collect. For more information call James Varnum at (617) 542-5188, Monday through Friday, 10 am to 4 pm.

* * * * *
Volunteering in the Boston Public Schools offers an opportunity to learn about, while contributing to, urban education and multi-cultural, multi-lingual environments. S*T*A*R volunteers work with elementary, middle or high school students during or after the school day, for long or short-term assignments, or in after-school sites throughout Boston.

Internships are available in Publicity/Marketing; Volunteer Management; Community Organizing and Recruitment. Call School Volunteers for Boston at 451-6145 or visit the downtown office at 25 West Street, between Tremont and Washington Streets to learn now you can S*T*A*R with Boston's youth.

SUBJECT: ROBOTICS



Lisa Dickson designs the S.T.A.R. (Student Training and Assessment Robot) for the General Electric Company.

See Your Future Through the Eyes of a Robot

Lisa Dickson does! She's helping GE create tomorrow's robot systems. With "smart" robots that can actually see, touch, and sense heat or cold. "Adaptive" robots that can measure how well they're doing a job, or reprogram themselves in moments to take on new assignments.

Sound like sci fi? It's as close as your first career move. Because at GE, we're already using robots like these, for jobs that require decision as much as precision.

When GE adds vision capability to lasers and off line programming, robotics takes a giant leap forward. Just on the horizon are GE sight-equipped robots that guide themselves through intricate laser welding. What next? Tactile sensor pads to enhance GE robots with super-human dexterity. And computer brains for "trouble-shooting" robots whose thought processes come close to human intuition!

If you're fascinated by robotics, the new frontier is happening at GE. We not only design, build and sell robotic systems — we're using them in bold, new ways. Robots are an integral part of GE manufacturing processes, for everything from lightbulbs to locomotives.

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If you can dream it, you can do it.

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Majors reported

(Continued from page 1)

M. H. Villars, physics academic officer. But he speculated that "word has gone around that if you want to get a job after graduation, physics is a viable option."

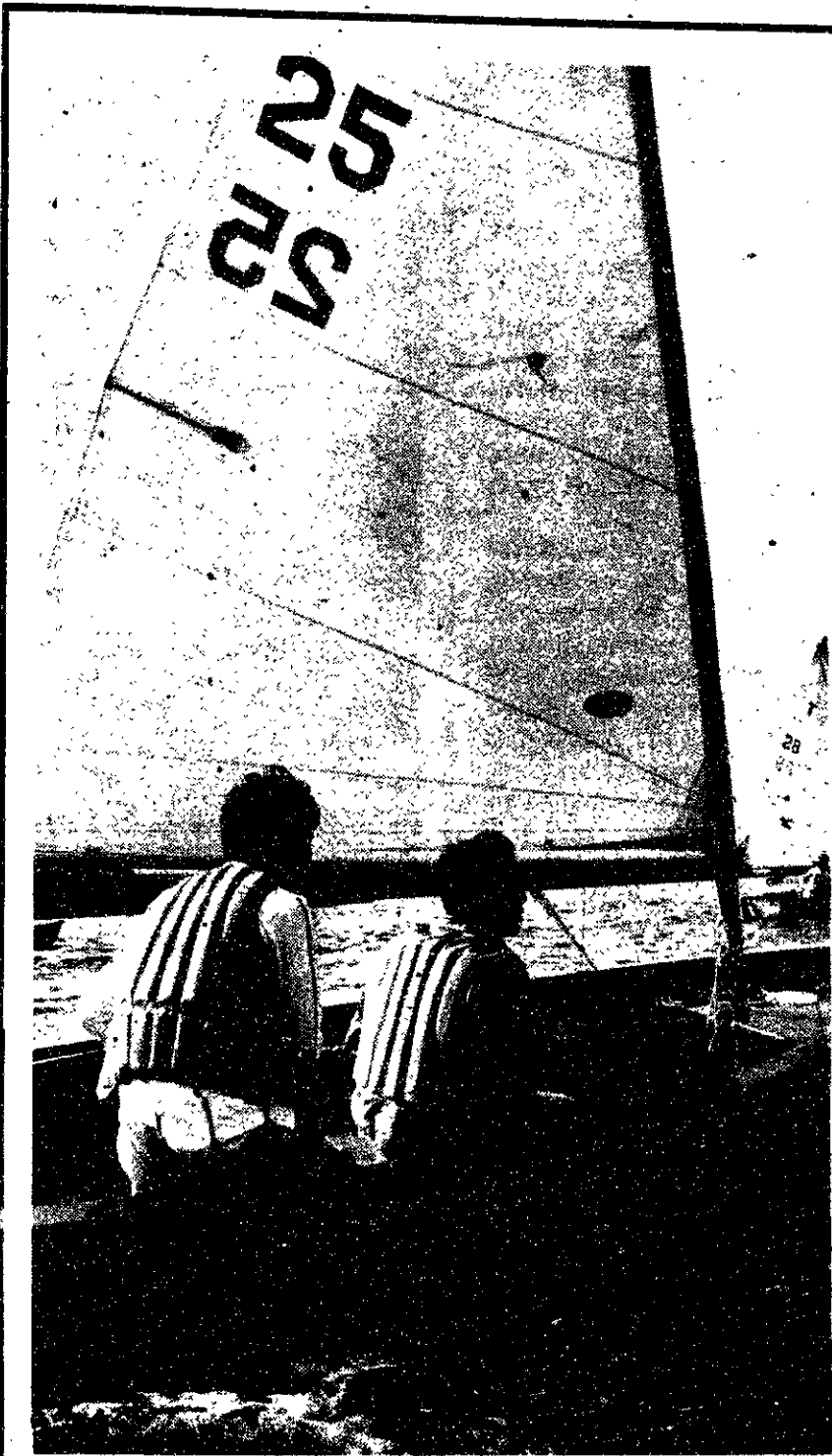
The faculty is happy to have more students, and the department will make sure it has adequate facilities for upperclass laboratory requirements, he added. "When the time comes, we'll be ready."

The only department to show a significant decline in enrollment was Chemistry. Twenty-two sophomores, compared to 43 sophomores last year, chose to major in Chemistry. Approximately 40 students per class have declared chemistry as their major over the past several years.

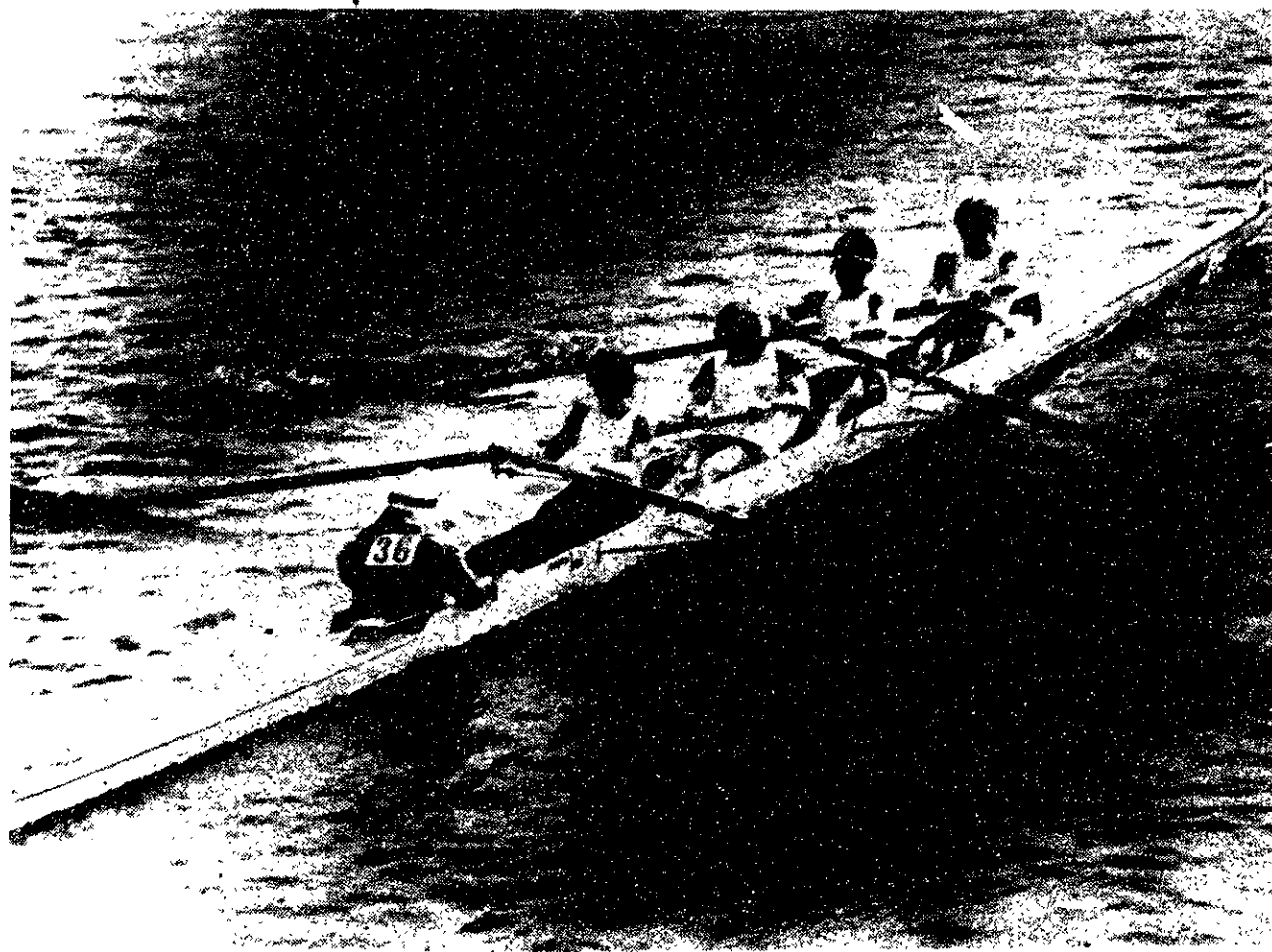
The faculty in the department would like to return to the higher enrollment level because "that's the number we can handle most efficiently," said Melinda Glidden, coordinator of the undergraduate chemistry program. The department has changed the format of freshman chemistry classes in an effort to be "more accommodating," and is offering a seminar series, she said.

There are only half as many undesignated sophomores this year as last year, although the class size is almost exactly the same.

Enrollment in the School of Humanities and Social Science grew slightly; its most popular departments are Economics and Psychology. Enrollments in the Sloan School of Management and the School of Architecture and Planning decreased slightly.

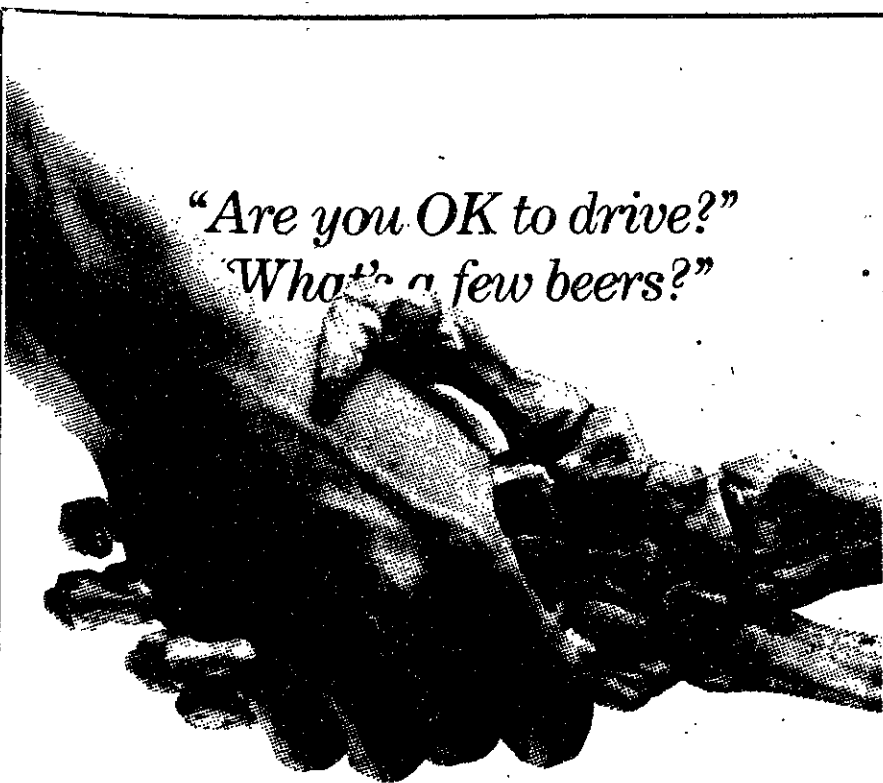


Tech photo by Steve Y. Kishi
Doug Sabin '89 and Mike Feldman '89, in Sunday's Freshman Regatta.



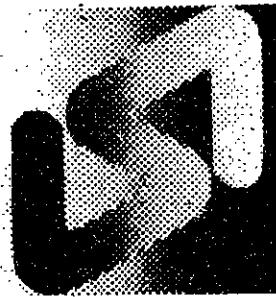
Tech photo by H. Todd Fujinaka

MIT women compete in the fours division Sunday at the Head of the Charles. The women's lightweight fours finished 9th in the race, and the women's championship fours finished 12th in what is billed the largest one-day rowing event in the world.



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Turkeys lose out on bowl bid

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A gung-ho Tech Wild Turkeys football team won a spiritual victory Sunday in its season opener against the host and arch-rival Harvard Crimson Crimson. The Wild Turkeys employed a sophisticated aerial offense and a confused defense in combating the highly-favored Crimson, leading to a hard-fought 6-6 tie — 6 Crimson touchdowns against 6 Tech first downs.

"We lost by points, but we won by a lack of points," Turkey wide receiver Stanley "Etc" Etra '86 asserted. The tone of the game was set on the first play when quarterback "Major" Minor "Psycho" Huffman '88 was blitzed for a three-yard loss.

"You can blitz once every possession," an unidentified Crimson-Crimson player explained — after the play.

The Tech nearly drove to its own 25-yard line on its first possession, mainly through Huffman's crisp passing and the fleet-footed receiving of Ben "Sting"

Stanger '88 and "Captain" Andy Bein '87. The drive halted abruptly when Stanger tried to catch a pass with his nose.

A tenacious Wild Turkey defense prevented the Crimson Crimson from crossing midfield on Harvard's first possession thanks to the acrobatic defensive backfield play of Harold "Howard" Stern '87 and Tom "Tom-Tom" Huang '86. Ron "Refrigerator" Becker '87 provided a relentless pass rush.

All-American safety Earl "The Earl" Yen '88 slapped the ball away from the Crimson Crimson in the end zone to keep the game scoreless in the first minute.

In the second quarter, The Tech surprised the Crimson defense with an array of confusing audibles and screen passes. Rookie quarterback Huang revealed some of these signals employed by the Wild Turkeys after the game.

"Richard Pryor burning alive" means 'don't kill yourself on this play,' Huang explained.

"Media, media" is 'go out for the bomb.' 'George and Mary sitting in a tree' means 'take a look at those kids over there.' Man, they start so young these days."

The Crimson Crimson finally opened the scoring on a broken play intended to be a fake Statue of Liberty play. One Crimson player mistakenly invited some huddled masses and all hell broke loose.

Meanwhile, the Tech offense had difficulty getting its highly-touted passing game untracked. A series of miscalculations and almost-catches plagued the Wild Turkey offense. Stanger opened the second half with a spectacular tackle-breaking kickoff return. Unfortunately for The Tech, the game was two-hand touch.

Once again, the Wild Turkey offense sputtered, despite the exhortations of Coach Katie "Vince Lombardi" Schwarz '86. Then, computer science-major Etra announced that he had designed a

(Please turn to page 18)



Tech photo by Ben Stanger

Center and quarterback Thomas "Tom-Tom" Huang '86 prepares to pass to wide receiver Harold "Howard" Stern '87 Sunday in the first annual Tech-Crimson football game. The final score: 6-6 (6 Tech first downs, 6 Crimson touchdowns).

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sports

Cross-country sweeps Williams and Tufts

By Robert Zak

The men's cross country team braved a wet and soggy course in Williamstown, MA, to sweep teams from Williams College and Tufts University in their last tri-meet of the season Saturday. The junior varsity team also scored a decisive victory.

The Engineers set the pace for the varsity race early. At the two-mile point of the rain-soaked course, eight of the nine runners from MIT led the race, 20-30 yards ahead of MIT's ninth man, Rod Hinman '88. Hinman was, in turn, ahead of everyone else. Bill Mallet '86 commented after the race that running with so many teammates made the race feel more like a training run than a meet.

Gordy Holterman '87 won the race easily, placing first for the third time this season for the Engineers. Terry McNatt '87 pulled ahead of teammate Will Sauer G to finish second in 26:24. Sauer finished two seconds later in third place.

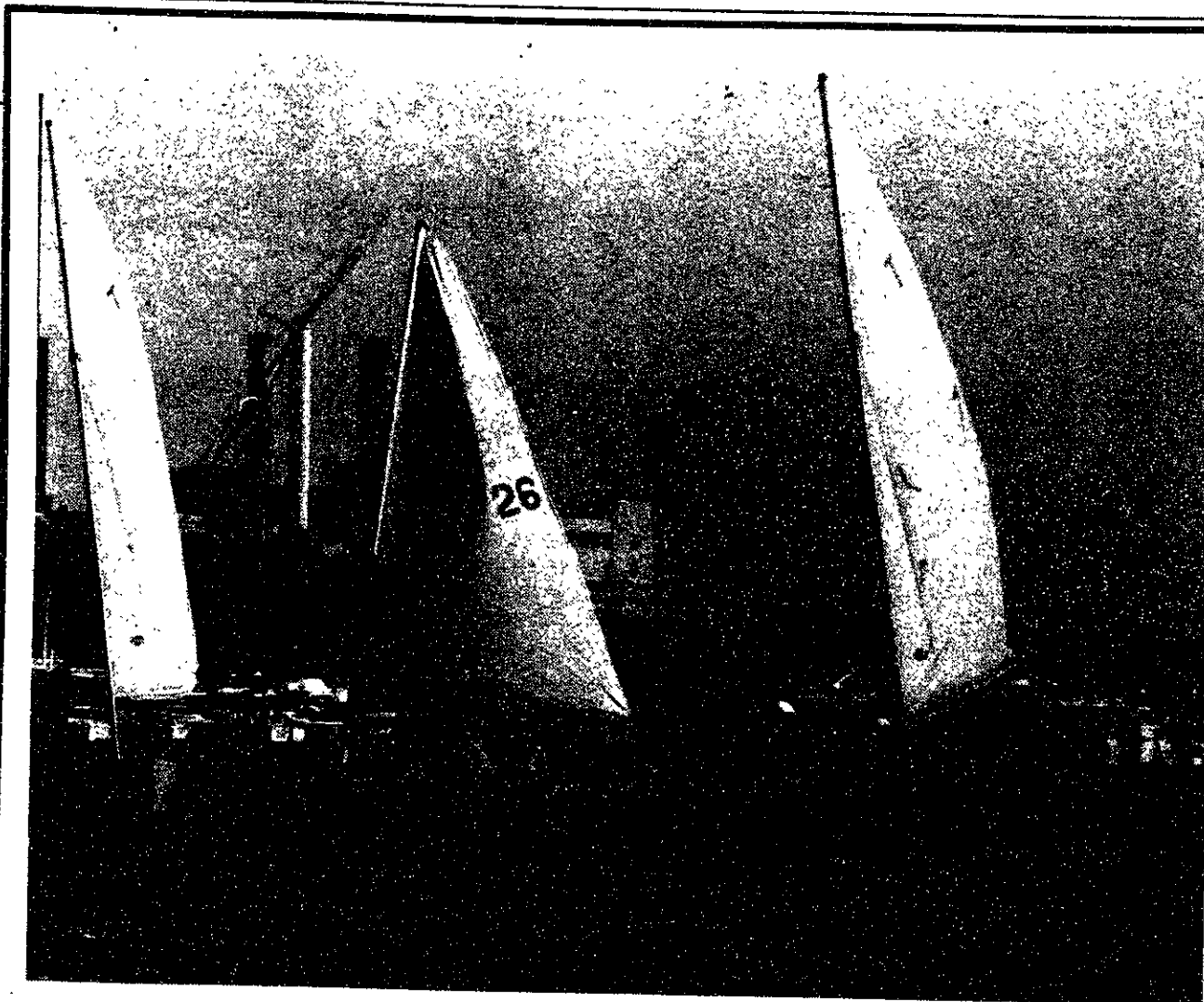
Anton Briefer '88 finished fourth, followed by Bill Mallet who completed the MIT sweep

by placing fifth in 26:37. MIT's perfect score of 15 won the meet. Tufts placed second with 58 points, and host Williams was third with 68.

Andreas Judas '89 led a first through fourth contingent from MIT in the JV race. Judas led the race from start to finish in 27:48. He was followed by Kyle Robinson '89 and Ted Manning '89.

Sam Peretz '89 ran the day's most exciting finish, beating a competitor from Williams by inches at the line to finish fourth. Dan Bond '86 contributed the final place to MIT's score, giving the Engineers first with 20 points. The Bears were second with 38, and the Jumbos were third with 68 points.

With the last of the regular season's races over, the Engineer's undefeated record now extends over two complete seasons. Saturday, November 3 marks the start of this year's championship season with the New England Championships at Franklin Park. (Editor's note: Robert Zak is the manager of the men's cross country team.)



Tech photo by Steve Y. Kishi
Doug Sabin '89 and Mike Feldman '89 compete in Sunday's Freshman Regatta. MIT finished 8th.

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Women's soccer defeats Pine Manor

By Paul Paternoster

The women's soccer team played its way last Thursday to one of the most impressive victories in its brief history at MIT. An estimated home crowd of about 10 people watched the tenacious Engineers trounce Pine Manor 10-1.

Under the direction of first-year coach Shawn Ladda, a former Mid-Atlantic all-star at Penn State, MIT outthrust Pine Manor from the opening kickoff. Very rarely did the opponents cross midfield, as the Engineers bottled them up in front of the goal.

The tempo of the game was set early by tri-captains Jeri Ikeda '87, Marjorie Bump '87 and Grace Saccardo '86. Good passing and ball control by the threesome led to numerous scoring opportunities. Pine Manor's best defense was to kick the ball out of bounds. MIT got a lot of practice with corner kicks and throw-ins as a result.

MIT scored its first goal ten minutes into the game. A perfectly-executed crossing pass led to an easy goal for left-winger Eileen Murphy '89. MIT continued its pressure throughout the first half.

Coach Ladda used her whole bench. "We have 27 women here who are dedicated to playing soccer," Ladda said. No matter who was playing, the same aggressive, spirited style of play was MIT's

trademark.

Irene Gregory '88 and Ikeda added two more MIT goals to give the Engineers a 3-0 halftime lead. The squad's 3-3-4 alignment (three fullbacks, three halfbacks and four forwards) seemed more like a 0-0-10 offense. The fullbacks played a crucial role in keeping the ball in the offensive zone. Kathy Lin '86, Sofia Merida '87, Jessamy Tang '89 and Charlotte Biber '89 were instrumental in clearing away potential Pine Manor scoring opportunities and setting up MIT scoring drives. As a result, goalie Kathryn Silvestri '88 had an easy half.

This year marks the first year of varsity women's soccer at MIT. Pine Manor is also a first-year team, and, in its contest against MIT, had only ten players. In addition to being shorthanded, the Pine Manor players must have been tired after trying to keep up with the Engineers' potent attack.

Ladda mainly relied on second stringers in the second half. Not only did they fill their respective positions adequately, but they aided in scoring seven second-half goals. A few team members had never played soccer before this year. "The nice thing about [soccer] is that the first time out, you can have some level of success," Ladda noted.

Murphy, Ikeda and Saccardo added early second-half goals to

up the scored to 6-0. MIT suffered its only setback at this point as a Pine Manor forward split the defense and beat Silvestri for the team's only goal.

The rest of the game was a continuation of MIT spirit, mainly carried out by Niki Pantelias '88 and Christy Alvord '89, who continued to put pressure on their opponents. Pantelias scored on an incredible turnaround shot, blasting it into the upper left corner of the net.

Alvord, after nearly scoring numerous times, finally put one home off a defender. Laura Finkelstein '87 and Angelina So '89 also scored to give MIT its 10-1 victory.

After losing to Brandeis Saturday, the team has a record of 6-6-1. The Engineers will play at Babson Thursday to complete their season.



Tech photo courtesy MIT Woman's Soccer
Jeri Ikeda '87 runs with the ball in a recent match. The MIT woman's soccer team record is 6-6-1, and their next match is Thursday at Babson College.



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Rowers converge on Charles River

By Anh Thu Vo

The MIT Boat Club, defending champions in the Men's Lightweight Fours division, lost their title at this year's Head-of-the-Charles Regatta held on the Charles River Sunday.

Unofficially, the varsity crew placed second in their race. Last year's team set the record for that event, capturing the Coleman Cup with a 16:7.4 time.

The US Naval Academy Rowing Team and the St. Catherine's Rowing Club shone at the 21st annual Regatta, and are expected to be among the top winners. Official results of the races are not yet available.

MIT's rowers competed in five events: Men's and Women's Lightweight Fours; the Women's Club and Lightweight Eights; the Women's Championship Fours; and the Men's Championship Eights.

Billed as the largest one-day rowing event in the world, the Regatta attracts over 250 teams from as far away as Denmark and England. The Head-of-the-Charles, established in December

1964, is widely regarded as one of the most prestigious rowing competitions.

The rowers, ranging in age from youth crews composed of persons under 19½ years of age to veteran scullers aged 50 and over, competed in a total of 18 events.

MIT's Women's Lightweight Fours captured ninth in their races, and the Women's Championship Fours team finished twelfth. The Men's Championship Eights rowed to a standing of 26th. The results of the Women's Club and Lightweight Eights race were not available.

Mary Ellen Finney, MIT's Women's Novice Coach, also rowed with an alumnae crew from Radcliffe College. Finney's team finished 31st in the Women's Championship Eights. Hartley Rogers Jr., professor of Mathematics, competed in the Men's Veteran Singles. Elizabeth Bradley '83, former member of the women's crew team, entered the Women's Championship and Master Singles.



Tech photo by H. Todd Fujinaka

The Tech Alumni Women's Lightweight Eights race in the Head of the Charles on Sunday.

Football defeats SMU, 3-0

By Katie Schwarz

It came down to a few feet of mud. Late in the fourth quarter on Saturday, with MIT ahead 3-0, a fumbled punt snap had given Southeastern Massachusetts University the ball on MIT's three-yard line. But the Engineer defense held on to save the game.

Pouring rain and a slippery field made the game a contest between the two defenses. The Engineers, ranked third in the conference in defense, held previously undefeated SMU to 96 yards rushing in 48 attempts, and only 107 yards of total offense.

Meanwhile, Hugh Ekberg '88 and Chris Adams '87 ran for

over 80 yards each. The pair are currently first and second in MIT rushing this season: 412 yards in 76 carries for Ekberg, and 393 yards in 93 carries for Adams.

The first half was a scoreless scramble back and forth in the rain. One MIT drive looked like it was going to be successful, but a fourth-down field goal attempt by quarterback Peter Gasparini '88 went wide to the right.

Gasparini succeeded in another field goal attempt in the third quarter, his first kick to score in four attempts. Then came the fumble. After three plays up the middle, SMU reached the six-inch line. On the fourth play they

tried a fake up the middle with an outside run, but the runner was brought down 20 yards back.

Among the defensive standouts were co-captain Larry Monroe G with ten tackles; Rich Rice '87, Kevin Poulin '88, Nick Nowak '86 and Mark Hanson '88 with eight each; and Chris Moreno '88 with seven. Moreno also made three sacks, while Hanson contributed two and Monroe and Rice one each.

The win brings MIT's record to 2-3. In Saturday's homecoming game, the Engineers will meet 3-3 Bentley at 2 pm in Steinbrenner Stadium.

inside

Dance and drink no more, says Cambridge. Page 2.

Sally Ride shows her home movies from space. Page 9.

Ladies and gentlemen, children of all ages, turn to Page 13.

The fastest Engineers in the east. Page 21.

UA NEWS AND WORLD REPORT

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There will be a CPR instruction course on Saturday, November 2, from 9-6pm in the Sala de Puerto Rico. We are looking for certified instructors to help. Sign up in Lobby 10 during the week of October 28 - November 1. For more information, contact Dave Tuveson in the UA Office, 253-2696.



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