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Volume 103, Number 47

# The Tech

MIT  
Cambridge  
Massachusetts

Tuesday, November 1, 1983

## Gray will not waive benefit requirement

By Thomas Huang

MIT will not waive the requirement that student activities contribute to the employee benefit program, President Paul E. Gray '54 said yesterday afternoon.

"It is my strong impression that we will not waive [the re-

quirement] in a permanent sense," he said. William R. Dickson '56, senior vice president, made the recommendation, Gray said.

"We may agree on phasing the requirement in over two to three years," Gray said. Such a plan would allow certain student ac-

tivities to gradually increase their contributions to the fund.

Groups which employ students must pay an amount equal to 33.9 percent of their payroll to the MIT employee benefit fund. The requirement is part of a change in the benefit program which began July 1.

Dickson said, "I know the larger groups, such as the Lecture Series Committee and the Student Center Committee, can pay. There will be no hardships on those groups."

Dickson must decide whether the Institute should waive the requirement, Gray said. "If it were a decision to go ahead and waive (Please turn to page 10)

### Leaders oppose requirement

• John Mark Johnston '84, Student Center Committee chairman, said, "We are holding our current position of not paying." The committee would have to pay \$25,000 each year. Johnston had previously opposed the requirement because none of the workers at the 24-hour coffeehouse would receive benefits.

• V. Michael Bove G, chairman of *The Tech*, said, "It's a serious perversion of roles when student groups are being asked to finance MIT, particularly since they're already trying to cope with lack of office space, money, and members. *The Tech's* managing board will be meeting this weekend to decide what actions we will take in response."

• Leo J. DaCosta, MIT Lecture Series Committee chairman, said, "Although it won't affect us, we're very surprised and disappointed about the decision."



Tech photo by Sidhu Banerjee  
Bicyclists continue to park illegally on the paraplegic ramp outside the Tech Coop, despite obvious warnings.

## SCC tries to expand domain

By Burt S. Kaliski  
and Thomas Huang

The Student Center Committee approved at its meeting Sunday a proposal to amend its bylaws that would allow the group to appropriate \$2000 for Sigma Phi Epsilon for a casino-cruise party.

The committee must again approve the amendment this Sunday, by a majority of three-quarters present and voting, to effect the change.

The committee's bylaws currently permit funding only to groups using the Student Center, its steps, and Kresge Oval. The amendment would change the bylaws to allow the committee to support outside activities.

The Student Center Committee had passed a similar change in the bylaws at its Oct. 23 meeting, but lacked a three-quarters majority during the required second vote Sunday to enact the amendment.

The committee, in closed session, defeated the original amendment and approved the new one by a vote of 10 to 3. The new amendment adds to the bylaws the statement "The committee is not restricted to activities within the Student Center."

The committee's interest in changing its bylaws followed requests for funding by Sigma Phi Epsilon at the Oct. 23 meeting. Arunas A. Chesonis '84, a member of the fraternity, had asked the committee for funding for a casino-cruise party open to the campus. The fraternity expects 600 people to attend the cruise, he said.

His fraternity had not approached the Undergraduate As-

sociation Finance Board for funding, he said. The Finance Board appropriates funds budgeted by the Office of the Dean for Student Affairs for student activities.

The Student Center Committee gives the Finance Board the interest earned on a high-yield \$40,000 activities trust fund, treasurer Mark J. Brine '85 had said at a previous meeting.

The Student Center Committee earns about "\$60,000 a year more than when the bylaws were last seriously considered," committee chairman John Mark Johnston '84 said at the Oct. 23 meeting.

Micheline K. Fradd '85, a member of the committee, had said the Student Center Committee could support the cruise, since it has much more money than the Undergraduate Association Social Council, which usually funds such events.

Committee members questioned the wording of the original amendment Sunday. The bylaws now state "the Student Center Committee has the responsibility to see that the building is used in accordance with [its] principles."

The original amendment would have changed that passage to "the Student Center Committee has the responsibility to see that the building and funds generated

(Please turn to page 2)

### Analysis

## Nuclear referendum unclear

By Ron Norman

Recent discussion concerning the proposed Nuclear Free Cambridge Act has centered on a few key assertions about which both opponents and supporters sometimes cite unclear facts.

Supporters and opponents have raised several views on the issues of the referendum, each of which reflects the highly emotional nature of the proposal. Facts indicate, however, that there are flaws in each argument.

Opponents of the referendum claim it limits First Amendment rights to freedom of research. An exclusion clause, however, seems

to explicitly bypass action against MIT and Harvard University, thus preserving the universities' rights.

Supporters, meanwhile, claim the referendum would create more jobs in Cambridge by redirecting the resources of The Charles Stark Draper Laboratory. That assumption is unfounded, as Draper says it would leave the city should the referendum be passed.

The referendum states "no person, corporation, university, laboratory, institution, or any other entity shall, within the city of Cambridge, engage in work the

purpose of which is the research, development, testing, evaluation, production, maintenance, storage or transportation of nuclear weapons or the components" of nuclear weapons.

The proposed act gives specific exemptions for "the research and application of nuclear medicine and basic research, the primary purpose of which is not to work towards the development of nuclear weapons."

Some proponents of the question assert that The Charles Stark Draper Laboratory Inc. would be the only facility affected by the passed referendum, while opponents claim several companies may be affected should the proposal be enacted.

Eric Segal, spokesman for Mobilization for Survival, a group supporting the referendum, said, "There is only one facility that will be affected by this act," referring to Draper.

(Please turn to page 2)

## Week-long search for student unsuccessful

By John J. Ying

The search for a missing MIT student was called off yesterday morning on New Hampshire's Mount Lafayette after a week of fruitless combing in hurricane-force winds and wind chill temperatures of more than 20 degrees below zero yielded no clues of the hiker.

Michael J. Miller '85, known to his friends as Mick, has been missing for one week since he disappeared while hiking with two friends in the White Mountains Oct. 23. Miller, 22, is a third-year student in MIT's department of architecture and a disc jockey at WMBR (88.1 MHz).

The chances of survival for Miller after a week in harsh mountain weather are minimal. He carried neither food nor water and who was wearing a leather jacket, sweater, jeans, and hiking boots when last seen.

"We are absolutely sure that if he's up there, he's dead," said Lt. Brian Howe of the New Hampshire Fish and Game Department.

Lt. William Hastings of the Fish and Game Department said he could not remember any instance of a person missing in the

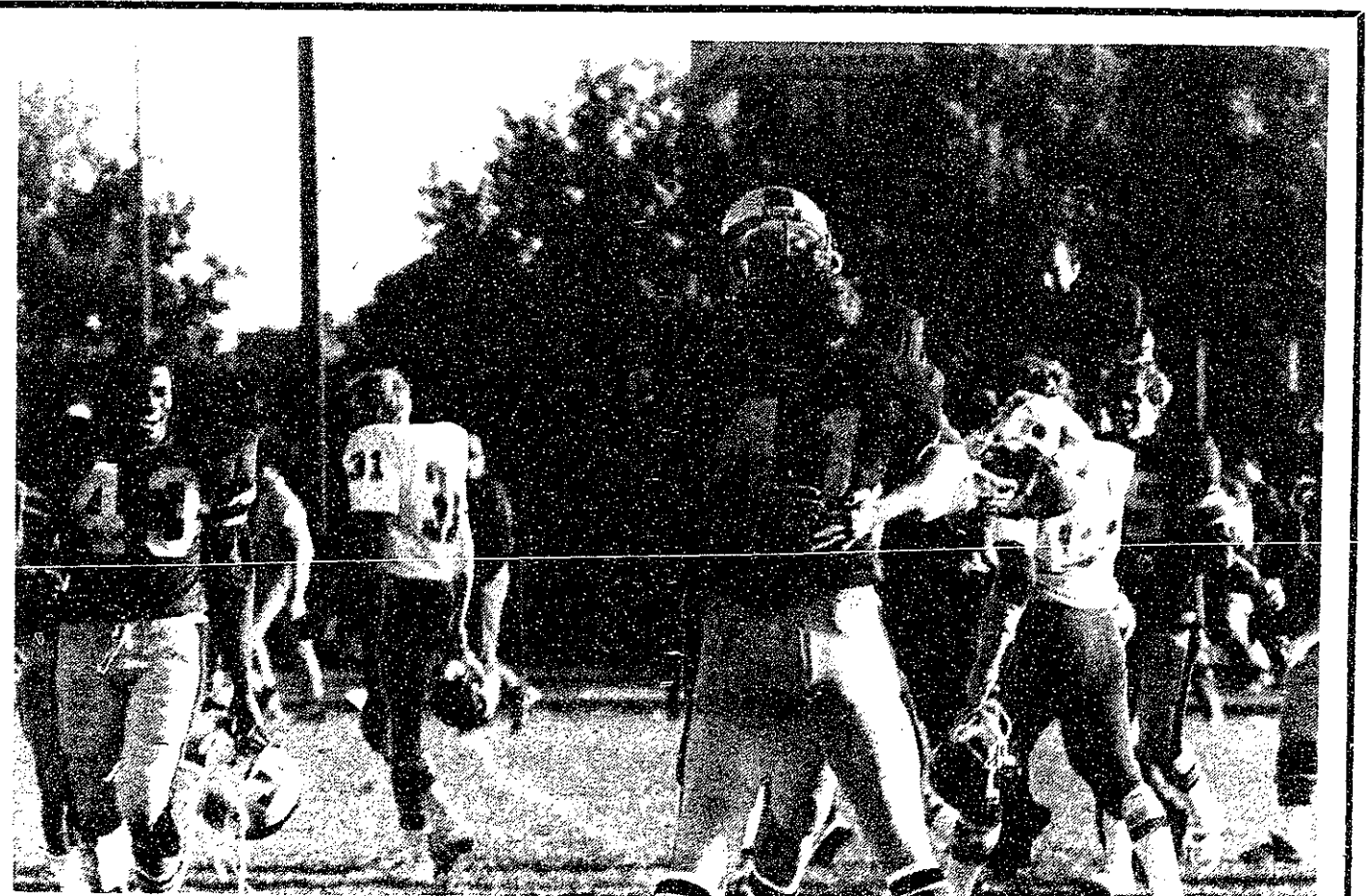
White Mountains for a week in present weather conditions being found alive.

Sunday two dog teams, several Fish and Game Department officials, and volunteers searched the mountain for Miller in winds gusting up to 40 mph and temperatures around 15 degrees without success.

Miller called to his friends "I'll see you at the summit" shortly after leaving the base of Mt. Lafayette Oct. 23. The only time he has been seen since that time was when another hiker spotted Miller two-thirds of the way up the 3.7-mile Old Bridle Path.

Miller was probably unaware that he had only three hours of daylight to make a five-hour hike, searchers reasoned. He would be a prime candidate for hypothermia and the disorientation that comes when body temperature falls. Had he had become lost in the darkness, or disoriented, he might have stumbled off the trail and down a ravine, they said.

The Old Bridle Path on Mount Lafayette in Franconia Notch leads to the Appalachian Mountain Club's Greenleaf Hut, often used by hikers in summer. The summit of the mountain is more than 5000 feet above sea level.



Tech photo by Joseph T. LaRocca  
Dave Peakes '84 is hugged by a teammate as Eden Warner '85 looks on. The team broke Bentley College's 16-game winning streak.

# Referendum raises questions

(Continued from page 1)

Joseph O'Connor '55, vice president of Draper, said last week, however, the act may affect 70 companies with defense contracts. The referendum "is such a loosely, broadly worded initiative that it could be interpreted in a host of ways."

Ernest R. May, professor of history at Harvard University and chairman of Citizens Against Research Bans, a group opposing the act, said his work on a three-year project entitled "Avoiding Nuclear War" would be banned should the referendum be passed.

"The opposition is acting as if the [exclusion clause] was not there," said Monica Yriart, canvas director of Mobilization for Survival.

May also said he is concerned with "the very serious economic effects" of the referendum. It "would take away jobs and raise taxes."

Draper "is a non-profit corporation," Yriart said. Mobilization for Survival maintains that Draper pays no taxes directly to Cambridge.

Draper Lab occupies building space owned by the Prudential Life Insurance Co. That company pays \$640,000 each year to Cambridge in taxes levied on rent receipts from Draper, O'Connor said.

The Cambridge Finance Office confirmed that Draper pays rent to Prudential which then pays taxes on the receipts to Cambridge, according to a representative of that office.

Draper, which employs 1800 people, has said it would move its operations out of Cambridge should the referendum be passed.

## SCC tries to amend bylaws

(Continued from page 1)

by [the Student Center Committee] are used in accordance with its principles."

William M. Hobbib '86, secretary of the committee, claimed the defeated amendment "doesn't do anything more for us."

Mary K. Bayalis '86, a member of the committee, said the original proposal "can be interpreted in more than one way, and in the future it's not really going to clear anything up."

Johnston had said at the Oct. 23 meeting the committee would have to suspend its bylaws to vote on the appropriation.

The suspension, Hobbib had said, would "set a precedent for doing [the appropriation]. We should discuss suspending it permanently."

Were the Student Center Committee to change its bylaws, said committee member Douglas R. Elrod '84, it would "change the philosophy of the committee."

Suspension of bylaws requires the support of two-thirds of the 17 committee members. The committee was unable to suspend the bylaws, as only 9 of the 12 present at the meeting voted in favor. It then voted on the amendment.

"The amendment should be strong and permanent, to reflect the change in the committee," Johnston had said. "We're more concerned with student life on a campus-wide basis."

Cambridge would then lose the tax revenues assessed on the rent receipts, unless Prudential were to find another renter.

Susan Levine, a staff member of Mobilization for Survival, said Draper's location in Technology Square could be easily filled were Draper to leave, since the area is a fast growing part of Cambridge.

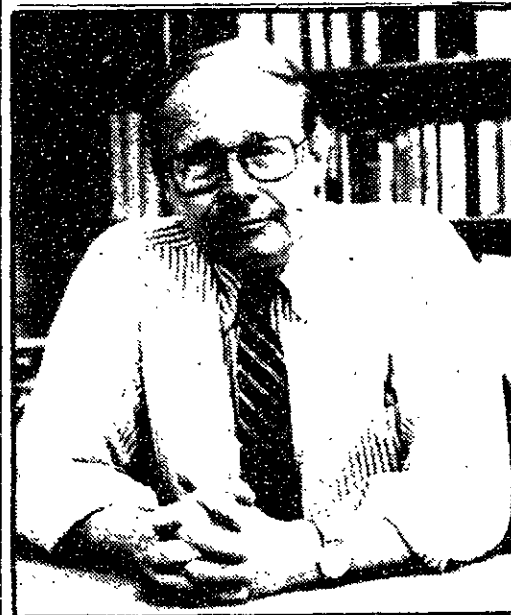
"We want Draper to stay in town and convert" to alternative industry, Levine said. The facilities would be suitable for "similar high-tech industry."

Mobilization for Survival fur-

ther asserts the defense industry employs fewer people per dollar of revenue than any other industry.

Passage of the referendum requires approval of one-third of Cambridge's registered voters and one-half of those voting in next Tuesday's election.

Due to the controversial nature of the question, voters should carefully analyze the specific wording of the proposal and decide whether it is appropriate as a legal document. They should also decide if it is proper for any law to limit research.



RE-E  
1 W  
Cambridge

## Gray's letter to MIT community

President Paul E. Gray '54 mailed a letter to members of the MIT community living in Cambridge last week to gain support for the defeat of the proposed Nuclear Free Cambridge Act.

"I share the hope for peace and for nuclear arms control that underlies" the efforts of Nuclear Free Cambridge, Gray's letter states. "I feel strongly that the initiative petition is not the way to pursue that objective."

"The language of the petition . . . would seem to restrict the free exchange of ideas and pursuit of knowledge which are central to the university and which are protected by the First Amendment," the letter continues.

"I want you to know that the Institute's position is that the proposed act is constitutionally defective."

The letter expresses the position of the MIT administration, "as endorsed unanimously by the MIT Corporation at its October meeting," it states.

Gray had previously questioned the constitutionality of the proposal at the September faculty meeting.

What do rent control, MBTA service stand zoning protection for neighborhoods, insi alternatives to the Electric Company's su plan, and Nuclear Free Cambridge have i

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But on the other hand, 1983 may prove our wate The year after which things never appeared so si But after which solutions were produced, becaus and each of our cities, And then our nation, Decided to become building blocks, instead of so many Split atoms.

To sustain these thoughts in political debates, And to realize them in city practices,

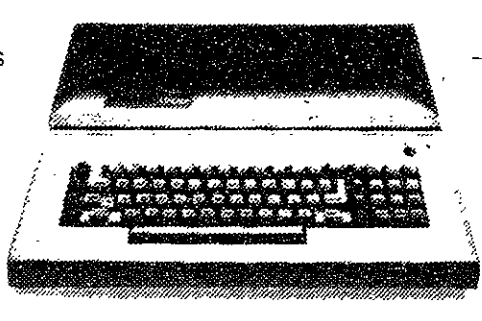
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# news roundup

## World

**US forces seize supposed Grenadian junta leader** — American paratroopers in Grenada have captured a man believed to be Gen. Hudson Austin, leader of the leftist military council which took power in a bloody coup last week. The prisoner identified himself as Austin, according to the Pentagon. The American toll increased, meanwhile, to 16 dead, 77 wounded and 3 missing. Army units have replaced many of the 1200 US Marines and 700 Army Rangers who led the initial assault. The Marines had been diverted from assignment to relieve troops in Beirut, and are now expected to leave for Lebanon this week. Pentagon and State Department officials, in another development, acknowledged that Cuba may be correct in its claim that there had been only 784 Cubans present on the island. Previous administration estimates indicated the presence of 1100 Cubans.

**Earthquake hits Turkey; 500 killed** — A major earthquake struck eastern Turkey Sunday morning, leaving 500 people dead. The quake measured 7.1 on the Richter scale. Reports indicated the earthquake leveled 50 villages and the death toll is expected to increase. Snowfall in some areas obstructed rescue efforts, and dropping temperatures further endangered survivors.

## Nation

**Jesse Jackson will run for president** — Rev. Jesse Jackson said Sunday that he will announce his entry into the race for the Democratic presidential nomination at a news conference to be held Thursday. The announcement came in an interview with Mike Wallace for the CBS program "60 Minutes." Jackson becomes the eighth Democratic candidate for the presidency. The 42-year-old civil rights leader said he would try to choose a woman as his running mate. His entry into the race is expected to reduce black support for Walter Mondale and increase John Glenn's chances for nomination.

## Local

**Polls show Flynn ahead in race for mayor** — Raymond L. Flynn leads the Boston mayoral race, according to a recent poll published by *The Boston Globe*. More than half — 51 percent — of those polled said they were likely to vote for Flynn, while 40 percent favored his opponent, Melvin H. King. Nine percent said they had not decided. Flynn's lead is smaller than that which some political analysts had expected, as King's popularity is markedly on the rise since an Oct. 11 poll.

## Weather

**Fair and mild through Friday** — Pleasant weather with mostly sunny skies today and high temperatures near 60 degrees. Mostly to partly sunny skies should continue Wednesday through Friday, with high temperatures around 60 degrees and low temperatures near 40 degrees.

Paul Duchnowski

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# Opinion

## Editorial

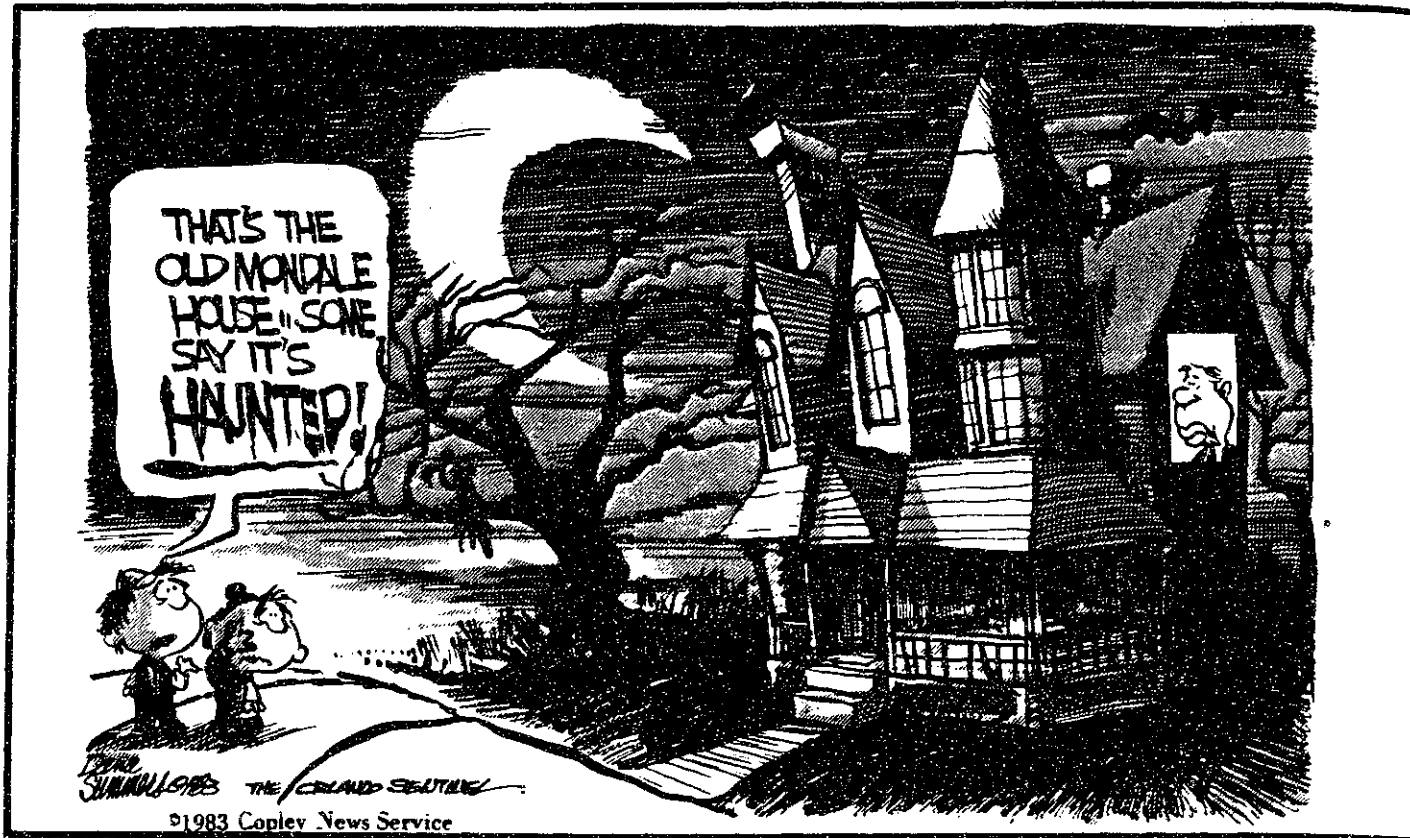
### New SCC funding proposal unwise

The students of MIT enjoy certain resources, including money and activity space. Several groups allocate those resources, such as the Undergraduate Association's General Assembly, Finance Board, Social Council, and Association of Student Activities; the Office of the Dean for Student Affairs; and the Student Center Committee. The proliferation of allocators contributes to disunity of student government as a whole, for no one is singly in control of the resources and responsible to the students. Only one group, elected by the students and exclusively responsible to them, should distribute money and space to student activities.

An amendment proposed this week to the Student Center Committee's bylaws, permitting it to fund activities not located in the Student Center or on Kresge Oval, is good only to the highly limited extent that it begins to remove the divisions between the several allocators. But to a much greater extent, the proposal would exacerbate the problem of unrepresentative student government and move resource allocation even further from the students' direct control.

The Student Center Committee's desire to share its wealth with the student activities beyond the committee's usual domain is commendable. Providing money directly to student groups, however, is an improper method. The committee should instead give its additional funds to the General Assembly which can more fairly disburse them.

A Sigma Phi Epsilon casino-cruise may or may not be a worthwhile recipient of student funds. The Student Center Committee is not the proper organization to make that determination. The committee should reject the proposed amendment. Should it fail to do so, the General Assembly should assert its authority to reject changes to the Student Center Committee's bylaws.



Column/Erik A. Devereux

## Seek diverse student body

The huge undergraduate enrollment in the School of Engineering and more specifically in the Department of Electrical Engineering and Computer Science (EECS) has put a critical strain on MIT's teaching and support resources. The problem has reached the point where MIT must stop talking and implement a solution. Some of the proposed alternatives are:

- restricting enrollment to only those sophomores who indicated a preference for Course VI on their applications for admission. This policy would be effective for one or two years, the time necessary for word to filter back down to the high schools. After that all applicants would probably indicate an EECS preference just to keep options open;

- having applicants to MIT apply separately to Course VI. This would intensify academic pressure on interested high school students to spend more time studying EECS-related subjects, further limiting diversity at the Institute. Such a policy would also further the department's elitist image, exacerbating the over-enrollment problem by increasing social pressure to declare EECS;

- limiting enrollment in Course VI after students have arrived at MIT. The obvious method would be to allow only the sophomores with the best academic records into the department. This conflicts with the current pass/no credit policies in force for the freshman year and could only turn MIT into a greater academic pressure cooker than

it is now. Channeling enrollment also conflicts with the long-standing Institute philosophy of academic freedom of choice;

These measures are all flawed because they are institutional solutions to a socio-economic problem.

The recent experience of several medical schools suggests a better solution. Medical schools have for years stressed academic excellence as the primary prerequisite for admission. Their students had narrow backgrounds with minimal experience in other disciplines and in extra-curricular social activities. A disturbing trend emerged: Graduates of medical schools were going into medical research or into narrow specializations in a ratio disproportionate to the demand for general practitioners.

The most effective solution was not institutional in character. Some medical schools implemented a policy of accepting B-grade students with broad backgrounds and commitments to helping people, instead of an interest in research. The schools did not attempt to unfairly coerce their students or their graduates. Those medical schools attacked the real problem, not its symptoms.

If MIT wants to reduce enrollment in Course VI, it should follow the lead of the medical schools rather than unfairly impinging on the right of students to study what they choose. The Institute must actively recruit students who have shown diversity in high school, with interests in

fields such as architecture, political science, or English literature. This proposal also implies accepting students with less competitive academic records.

This last condition is unfortunately the *coup d'grace* to the proposal. The current economic situation dictates that we need a vigorous electronics industry to stay competitive on the international market. The public is just as aware of the fundamental importance of electrical engineering as MIT. Students know that a degree in EECS offers job security. To quote from President Paul E. Gray's report on academic year 82-83, "For students in many disciplines, 1982-83 was a difficult year to look for a job. Employers sent out few recruiters and were slow in making offers. . . . Demand was strongest in electrical engineering and computer science."

MIT has strong ties with industry. Industry needs electrical engineers. MIT is not as interested in diversifying the student body so much as just reducing strain on Institute resources. It is not interested in accepting students with broad backgrounds and lower high school grades. It will not base its policies on fairness to the students it chooses to accept. Gray and the Office of the Dean for Student Affairs have scheduled a colloquium on the Course VI problem for Nov. 8. Students must express their views before the Institute implements its policy.

## The Tech

Volume 103, Number 47

Tuesday, November 1, 1983

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# Opinion

## feedback

### Questions Jackson on Latin American status

To the Editor:

After reading the Janice Eisen interview with Professor Jean Jackson (*The Tech*, Oct. 21, 1983), I decided that I could not remain silent. I felt that the information presented was very one-sided and that there were some major inaccuracies. I would like to address several of these points. I was totally confused by the statistics presented. For example, Professor Jackson stated that the literacy rate in Nicaragua went up from "something like" 41% to "something like" 88% (in only 4 years!). I openly distrust these two figures and suppose that no one (except in the Nicaraguan government) can believe them. Besides, even before the revolution in 1979, the United Nations accepted that the literacy rate in that country was above 50%, and now it is nowhere near 88%. Nonetheless, I do agree that the Sandinistas have made several improvements in the educational system (including marxist propaganda!), even if it is not true that "they had 100,000 workers go out and at night teach a great majority of illiterate Nicaraguans how to read." The interview also says that "over 30 million people have been killed" in El Salvador. Even though El Salvador is the most densely populated country in the continental western hemisphere, its population is only about 5 million people, and I hope that the "30 million" was only a misprint by *The Tech*. However, the number of people killed by BOTH the government forces and the guerillas in that country since 1979 is about 30,000, which certainly is a terrible loss of human life.

Professor Jackson also said that "the government decided to relocate all of the Miskito near the Honduran border, and, as always, seems to happen with relocation, there are tremendous problems." She seems to be very apologetic about the genocide carried out by the Sandinistas. Furthermore, her sentence is somewhat ambiguous. Did she mean that the Miskitos were relocated near the border or away from it? The latter is what she probably meant.

I would also like to add some points that Professor Jackson forgot to mention. First, the Sandinistas are against the church, and the Pope, during his recent visit to Nicaragua (where he was not properly received) reprimanded some priests working with the Sandinista government. Second, the Cuban presence (and armaments) is very pronounced in the country. Third, the flow of arms from Nicaragua to El Salvador is not stopped. And fourth, the Sandinistas promised to hold elections (as did Fidel Castro shortly after gaining power) but nothing has materialized yet. I only wish that they do have elections and that the U.S. backed "contras" stop killing civilians. As a Latin American, I feel ripped. On the one side, there is the United States of America, which stands for freedom and democracy; however, it supports dictatorships and their repressive regimes. On the other hand, there is the Union of Soviet Socialist Republics which wants to expand its overseas empire. Before 1979, the U.S.A. hardly worried about El Salvador; now it sends millions of dollars (read arms) to kill its people. Similarly,

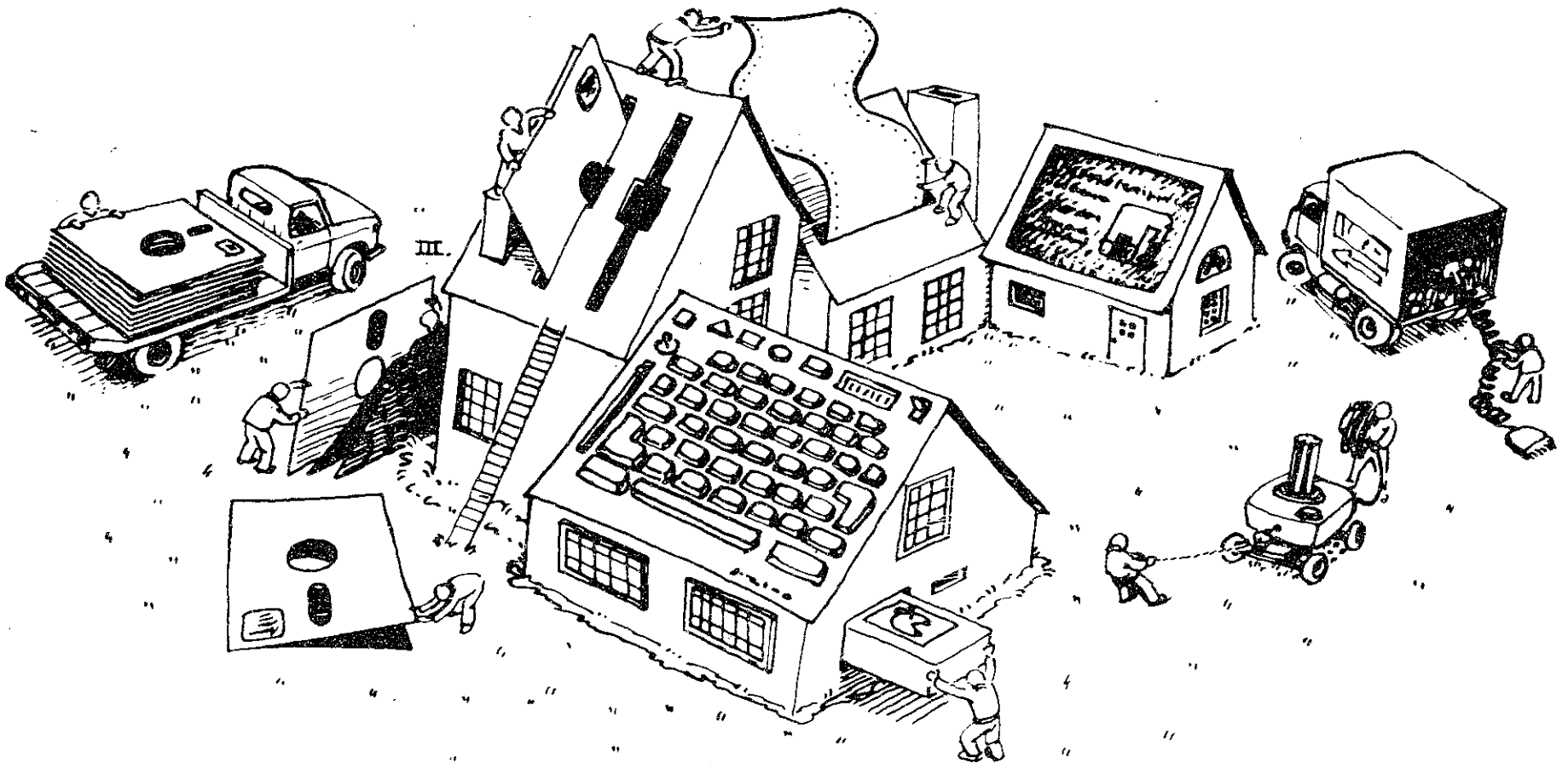
before 1979, the U.S.S.R. hardly worried about Nicaragua; now it sends millions of rubles (read arms) to expand its influence in Central America. Is there a difference between the two super-powers? Well, I believe that there is at least an apparent distinction between the two, namely, I wonder what would happen to me if I wrote this at the University of Moscow. It also seems to me that the U.S.A. represents a higher set of ideals, even if it does not usually put them into practice.

Finally, I want to say that this month Argentina will return to democracy (?) after more than seven years under military governments (and *desaparecidos*). And in December, Venezuela will also elect its sixth consecutive president (a record). ... But is this really a way out?

José Luis Cordeiro Mateo G  
 Editor's note: Jackson said she meant to say "30 thousand people have been killed." A transcribing error added a letter to the name of the Rama Indians.



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Associated Press Photographer  
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*The Tech*

Stan Grossfeld  
Chief Photographer,  
*The Boston Globe*

Joanne Rathe  
Photographer,  
*The Boston Herald*

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## Essay Contest on the topic "1984"

**CONTEST JUDGES:**

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West Coast Editor,  
*Information Systems News*  
Former Editor in Chief  
and News Editor, *The Tech*

Edwin Diamond  
Adjunct Professor of Political Science,  
author and journalist

Alan Richman  
Assistant Managing Editor  
and Columnist, *The Boston Globe*

*Essays must be typed, double-spaced, on 8½-by-11-inch paper.*

**A total of \$250 in gift certificates, courtesy of the Harvard Cooperative Society, will be awarded in each contest.**

**All entries must be received in our offices, Student Center Room 483, by midnight, November 30.**

# feedback

## Finance director elaborates

To the Editor:

In the more than sixteen years that I have been accessible to *The Tech* to explain and describe MIT's finances and operations, this is the first time that it has been necessary to write in regard to an article that appeared in your publication. The article and editorial in question [Oct. 25] are those on the application of employee benefits to student employees. I trust that the facts which follow will help to clarify the situation.

The change in employee benefits, which became effective on July 1, 1983, was made for programmatic, not financial reasons. In fact, MIT took considerable financial risk in making the change, a risk that could only be offset by an increase in graduate enrollment, encouraged by that change. The purpose of the change was to improve the employment opportunities for graduate students in research programs by reducing the apparent cost of these students vis-a-vis post-doctoral fellows. The mechanism used to achieve this goal was simply to take a direct cost and to distribute it through the employee benefit rate over a broader base. In this redistribution process some accounts will see reduced costs, while others will experience increased costs.

The decision to make this accounting change was only taken after discussion with the Academic Council and the Faculty Council. When it appeared that this change would benefit the academic programs of the Institute, approval was sought from the federal auditors [Defense Contract Audit Agency] (DCAA) and the Office of Naval Research

(ONR), MIT's cognizant federal agency. Part of the fiscal agreement was the application of the employee benefit rate to all MIT employees — including students.

Discussion of the change was enlarged in the fall of 1982 to include the Administrative Council and administrative officers. Formal notice of the change was sent to the Faculty Council (the Academic Council plus academic and interdepartmental laboratory heads), principal investigators, and administrative officers in January 1983. During the spring, Dean [of Graduate School Kenneth R.] Wadleigh [43] chaired a committee that worked on the details of implementation.

In my two discussions with

your reporter, I explained that we could not exempt student activities from employee benefits unless the federal government concurred. I suggested, however, that relief could be granted by changing the budget to provide funds to offset the employee benefit charge. This budget change would require the support of the Dean for Student Affairs as student activities come under her cognizance. It would also require the use of unrestricted funds that would have to come from future tuition increases or reductions in some activity that would free unrestricted funds for this use. Thus, the budget decision becomes one of competing for

(Please turn to page 9)

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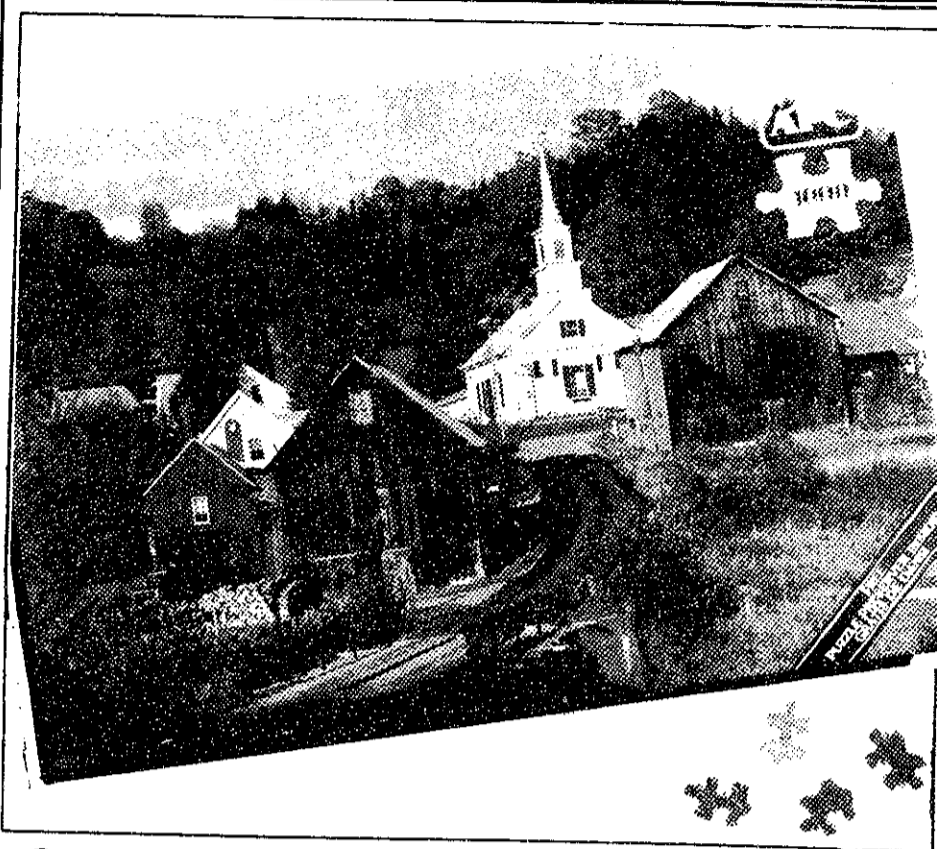
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# UA News

### Engineering Over-enrollment

The Student Committee on Educational Policy will hold a special meeting this Wednesday, November 2, at 7:30 p.m. in room 400 of the Student Center. The over-enrollment problem is very serious and may force the Institute to make admissions policy changes this term to affect next year's incoming freshman class. Student members of the relevant Student-Faculty committees will be there and the general public is encouraged to come with suggestions for dealing with this issue.

### Attention Seniors!

You were supposed to call last week to make appointments for senior portraits. There may be a few slots left, so if you want to be included in this year's *Technique*, call the office at x3-2980.

### General Assembly News

We left out one name in last week's *UA News*. Win Treese is currently looking into several campus dining issues. Anyone with complaints or suggestions concerning Dining Service may call him at dl 8900. The GA will have its third meeting this Thursday at 7:30 p.m. in room 4-163. We will check on the progress of the subcommittees and talk about Project Athena and academic honesty.

### James Watt to Speak at Graduation

We have some good news and some bad news. The good news is that the recent Class of '84 survey received 120 responses, 110 of which wanted an outside speaker at Graduation. And the Commencement Committee has decided to go with an *outside* speaker. The bad news is that the winner of the question "Who would you like to speak at Graduation?" was James Watt, receiving well over 10 first place votes. Mr. Watt was enthusiastic about the speaking engagement, but declined when told that the Charles had been cleaned up ("It was such a beautiful river!"), that Building 10 had not yet cracked due to acid rain, and that strip mining equipment was not permitted in the Great Court.

Frankly, we could use some more names. And we need them by Thursday at 2:30. So do some thinking, and call Rich Cowan (dl 6481) or Diane Peterson (dl 8670) today. You can leave the names at E.C. Desk, for Rich, at x3-2871. Please. The next choice was Jesse Helms.

### Blood Drive

TCA and the American Red Cross will continue to hold the fall blood drive this week in the Student Center. The drive will end on Wednesday, November 10. Please make plans to give sometime this week. For information call x3-7911.

### Still Looking for Ugly People...

APO is trying to raise money for charity. Come on, ugly people, where are you hiding? The contest, to determine the ugliest man/woman/thing on campus, then continue throughout this week. For info, call the APO office at x3-3788.

### Be a More Better Writer

MIT's Writing and Communication Center, located in 14N-317, has a staff of professional and peer tutors available for advice on all aspects of writing. The staff is available during the hours of 10 a.m.-4 p.m. Monday through Friday. You may feel free to consult one of the staff before or during the writing of a paper, or have them take a look after you've completed it. The Writing Center also conducts seminars on various aspects of writing, oral presentations, scientific writing, exam taking, and on English as a Second Language. A new service for this year is special tutoring by appointment for non-native speakers of English. This service is provided every Tuesday from 10-4. Interested? Call x3-3090.

### Hey You!

MIT's radio station, WMBR (88.1 FM) needs editors, producers, announcers, meteorologists and reporters for the news department. If you are interested, call Scott Morrison at dl 7305. Let your voice be heard.

### Huge Senior Meeting

There will be a huge Senior Class meeting tomorrow (Wednesday) at 7:30 in room 401 of the Student Center. Organizers for Senior Week events, new class council members and seniors interested in the senior class activities are needed. So come talk about the graduation speaker, surveys, and Senior Week. Adjournment to Toscanini's at 8:30. The Class of '84 needs you, so please show up!

### '84 T-Shirt Designs Wanted

Seniors, remember the Jersey design contest with the \$25 prize? Well, the deadline (Dec. 15) is approaching and we've received no designs yet. Two people are planning to submit designs; what about you? See the class newsletter for details, or send a photocopy of your design to East Campus, Goodale 406. Any questions? Call Rich at dl 6481.

### Open Office

Open office hours will be continued until further notice in the UA Office, room 401 of the Student Center. Hours are:

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# Opinion

## feedback

### Charges *Tech* misquoted him

To the Editor:

Much to my dismay, I am yet another victim of misquotation by *The Tech*. I am referring to Ellen L. Spero's article entitled "Activity Participation Falls" which appeared in the Tuesday, Oct. 25 issue. In reference to the

MIT Concert Band, I was "quoted" (and I do use the term loosely) as saying, "We actually have more people than we need." I neither said these words, nor did I imply them! In confirming that the MIT Concert Band does not have a participation problem,

I enthusiastically stated that this year we have significantly more members than last year.

It is the official policy of the MIT Concert Band that anyone who is willing to participate on a regular basis and who makes a sincere effort to learn the music is welcome to join the band. We never have more people than we need and we welcome new members throughout the year. I suggest that *The Tech* use quotes only when actually quoting one's words. If that is too much to ask for, how about a legitimate paraphrase?

Charles R. Marge '84  
President, MIT Concert Band

*Editor's note: The Tech has reviewed the reporter's notes. The story accurately recounted Marge's words and fairly represented the ideas he expressed. The Tech stands by the story.*

John A. Currie '57  
Director of Finance

### Federal auditors say MIT must pay benefits

(Continued from page 7)

scarce unrestricted program funds — a decision which must be made by the senior officers of MIT, not financial administrators. I also explained to your reporter that I was not personally involved with the negotiations associated with the change and referred him to the Comptroller, who could answer his questions with more clarity. In addition, I

While many of the issues associated with this accounting change for employee benefits were covered in your articles, some important ones were not. Both Dean [for Student Affairs Shirley M.] McBay and I would be glad to discuss these issues with you further if you like — give either of us a call.

mentioned that it was my understanding from a conversation I had the previous week with [Assistant] Dean [for Student Affairs Stephen D.] Immerman that he was reviewing the impact of the change on student activities, and referred your reporter to him to check the status of the process. Apparently the pressure of deadlines and administrators' schedules did not make that follow-up possible.

One final comment that I made to your reporter had to do with the equity of one cost allocation method versus another. I pointed out that subsidies to one program from another were not uncommon at MIT (in effect, this is the result of this accounting change), and that a close scrutiny of the individual student activities might well show that their current subsidies far exceed the added burden the change creates.



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# MIT requires activities contribute to fund

(Continued from page 1)

it, then, indeed, I would have to agree with the decision," the president continued.

The Institute had an "understanding with [federal] auditors of which salaries are under benefit charges. Once you make some exceptions, you start making more," Gray said.

"We will help student groups if they are in trouble," Gray said. MIT would "define a schedule" for payment in which a student activity could gradually increase its contribution, he said.

Dickson said he recommended not to waive the requirement because MIT will not renegotiate its agreement with the government.

"My proposal is that we keep [the benefit program] as it is," he said. "We should have the student groups pay the full amount. They've known about this for a year. It's not as if we slipped this by them."

Michael P. Witt '84, president of the Undergraduate Association, said, "I just don't think all the groups were notified until recently."

Dickson has inadequate information about student groups, Witt said. "I can understand his recommendation, since he didn't have" the background on the student groups.

He would consider the decision reasonable only if Dickson studies the effect of the requirement on all student activities, Witt said.

Dickson said he had met with Dean for Student Affairs Shirley M. McBay about the recommendation "and she was basically in agreement. However, I still need some background on small groups which will be affected."

The issue is still open for discussion, Dickson said. MIT would gradually increase the required contribution for certain activities, should there be "sub-

stantial reason" he said.

Constantine B. Simonides, vice president, said "no decision on the specifics has been made. The Dean's Office is now assessing the impact on the student groups, with involvement from the groups."

"Once it has the guidelines, we can tell which groups need help from general Institute funds. Maybe all of them will get some relief," Simonides said. "It's hard to tell, because we don't have any numbers yet."

Dickson said his office would consider suggestions by the Dean's Office and student groups about the requirement. "They deserve to be able to comment," he said.

Philip J. Keohan, MIT comptroller, said the Institute last year negotiated with federal auditors from the Defense Contract Audit Agency and the Office of Naval Research to change its method of charging tuition for graduate research and teaching assistants.

"All colleges are required to fulfill certain cost principles, in order to have fair and equitable distributions," Keohan said.

The agreement with the federal

auditors requires the Institute to contribute equally to the benefit program for all employees, including students, Keohan said.

"It is fair to say that the negotiation team did not foresee" the effect on student activities, he said.

"If we were to change the agreement and exempt student activities, we would have to go back to negotiate with the government," he continued. "However, we can still forgive the groups" that cannot afford the contribution.

Keohan stressed that "exemption" is not the same as "forgiveness." Were MIT to exempt student groups, it would have to change the financing of the benefit program, he said.

Forgiving certain student groups would leave the financing intact, but would require the Institute find funds from sources other than those student groups.

The benefit program now provides tuition scholarships to employed graduate students while simultaneously reducing their salaries.

John A. Currie '57, director of finance, said "MIT took consid-

erable financial risk in making the change, a risk that could only be offset by an increase in graduate enrollment, encouraged by that change," in a letter to the editor of *The Tech*.

"The purpose of the change was to improve the employment opportunities for graduate students in research programs by reducing the apparent cost of these students vis-a-vis post-doctoral fellows," he wrote.

*Cost Principles for Educational Institutions*, published by the federal Office of Management and Budget, sets requirements for the distribution of employee benefits at institutions sponsored by fed-

eral agencies.

Federal agencies will pay for sponsored employees' benefits "in the form of regular compensation . . . such as annual leave, sick leave, military leave, and like," the publication states.

The institution must, however, distribute such costs "to all institutional activities in proportion to the relative amount of time or effort actually devoted to the employees."

Institutional activities, as defined in the publication, include operation of "residence halls, dining halls, . . . student unions [and] intercollegiate athletics . . ."

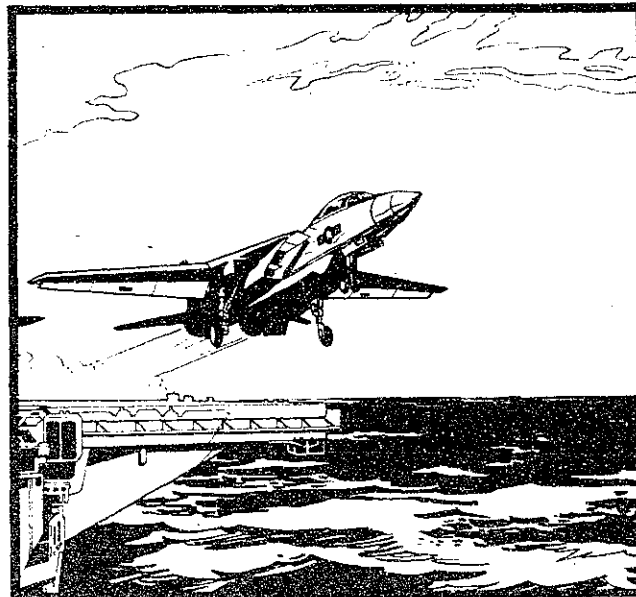
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### notes

#### Saturday, Nov. 5

Boston University will sponsor a one-day interdisciplinary **health care conference**, with workshops and plenary sessions, for those interested in health care administration and program implementation. The conference begins at 8:30 a.m. at BU's George Sherman Union, 775 Commonwealth Ave.; cost is \$25. For more information, call 353-2399.

The **Cambridge's Women's Center** is holding an **open house** today from 2 to 5 p.m. Food, drink, and childcare will be provided. For more information call 354-8807. The Center is located at 46 Pleasant Street, in Cambridge.

#### Sunday, Nov. 6

**Secrecy and Lying in Public Life** is the subject of a lecture to be given by author Sissela Bok as part of the Ford Hall Forum Ethics Lecture series. The lecture will begin at 8 p.m., in the Alumni Auditorium of Northeastern University, 360 Huntington Ave. For more information, call 338-5350.

#### Friday, Nov. 11

**Library Hours:** Libraries (excepting Chemistry, CLSS, Archives, Microreproduction, MIT Museum, Resource Sharing, and Schering-Plough) will be on regular schedule on Veterans Day (Nov. 11). Library schedules for Thanksgiving break (Nov. 23 to 27) are posted in the libraries.

# A film that makes a difference **ARTS**

*The Ballad of Gregorio Cortez*; starring Edward James Olmos, produced by Moctesuma Esparsa and Michael Hausman, directed by Robert M. Young, screenplay by Victor Villasenor; an Embassy Pictures release, now playing at the Nickelodeon.

*The Ballad of Gregorio Cortez* is a stunning, thought-provoking film, easily as important a work of cinematic art as *Roshamo* or *Hiroshima Mon Amour*. Like these movies, it can be seen time and again, with each additional viewing revealing different subtleties and adding to the experience as a whole.

It is the true story of Gregorio Cortez, a Mexican laborer living in Texas at the turn of the century, who was accused of killing a sheriff and hunted down by the largest posse in the state's history. He became an immediate folk hero in the Rio Grande border area where he lived, and the era's ballad singers, who were both the storytellers and historians of the region, chronicled his tale.

As Cortez' story unfolds in June 1901, he and his brother, Romaldo, are at home one morning when Sheriff Morris comes to question them about a stolen horse. Morris is accompanied by Boone Choate, an interpreter with what turns out to be a less than perfect knowledge of Spanish.

This is a pivotal point in the plot, and illustrates one of the major themes of the movie: lack of communication, in this case between two groups which speak different languages, often results in unforeseen problems and causes disastrous consequences. The film, half in Spanish and half in English, does not use subtitles, which can be disconcerting to someone not conversant in both tongues.

The absence of subtitles does not hinder *The Ballad of Gregorio Cortez*, and in fact enhances the effect of confusion and isolation experienced by the movie's characters — the viewer is drawn more closely to the film, and is better able to appreciate the difficulties in understanding and comprehension that it presents.

Through his interpreter, Sheriff Morris asks the Cortezes, who speak no English, if they had recently traded one horse for another horse. Cortez, who had just consummated a trade of a mare for a horse, says no — Spanish uses two distinctly separate words for "horse" (*caballo*) and "mare" (*yegua*); this is only one of the language's nuances that interpreter Choate is unable to comprehend. Cortez remarks to brother Romaldo that he has done nothing for which any man could arrest him, but Choate misinterprets this as a boastful "No man can arrest me."

Morris, thinking he has found the guilty parties, draws his gun and fires — the policy of "shoot first and ask questions later" was in full force in Texas at the time. Cortez, an excellent marksman, fires back. When the smoke clears, Cortez is uninjured but Morris is dead. Romaldo, caught in the crossfire, is severely but not mortally wounded. Choate is nowhere to be found.

Cortez is fully aware that two different standards are in effect in turn-of-the-century Texas, one for Anglos and one for Hispanics, and that his fate would more likely be determined by a lynch mob than in a court of law. Cortez realizes he must now flee for his life even though he acted purely in self defense.

Cortez sends his wife and children away for their safety and, after securing medical treatment for his injured brother, begins his flight. Anticipating that he will be expected to go south into Mexico on horseback, he heads north on foot, thus eluding the posse formed to capture him. He walks for two days through brush and other rough country, keeping his chasers at bay, and eventually stops at a friend's house.

Sheriff Glover, a close friend of Morris, takes personal interest in the case; he discovers where Cortez has gone and goes after him. Glover and his posse, who assume they are dealing with a gang of armed desperados, approach the Robledo house under cover of night and commence firing, and Cortez returns the fire, killing Glover.

Mass confusion erupts — some people run from the house, others stay inside, and Cortez flees into the brush. The posse on one side of the house starts shooting; the lawmen on the other side return the fire, believing they are being fired upon by Cortez' nonexistent gang, thus killing one of their own number.

Three lawmen now lie dead: Sheriffs Morris and Glover, and Constable Schnabel. Cortez obtains a horse from another friend and rides toward the Rio Grande. The Texas Rangers are now hot on Cortez' trail, but he is as good a horseman as he is a gunman, and by riding in zig-zags and figures-of-eight he is able to cover his tracks and elude the posses for nine days.

During this time, he often risks capture to get badly-needed rest or nourishment, and at one point goes into a village where he is immediately recognized as a wanted man. He keeps crossing the path of one or another of the posses, sometimes missing the Rangers by a matter of minutes, but for the final four days of his flight his pursuers are within sight behind him.



Finally, only a short gallop from the Mexican border, he is captured — it is not until then that the lawmen realize that there was never any gang, but only one man. This was no ordinary man, however. Within the space of only a few days, he had been transformed from a ranchhand into a larger-than-life legend known across southern Texas and into Mexico. The legend grew so quickly and out of control that it soon became impossible to separate man and myth.

There were two different personifications of Cortez the myth circulating at this time — the Anglo view, which painted him as an ultimate villain, and the Hispanic view, which pictured him as an idealized hero. Although the truth regarding Cortez the man was much closer to the Mexican portrayal of the legend than the Texan, both versions contained more fiction than fact, and the reality was somewhere in between.

The divergent viewpoints of the Cortez legend point out another major theme of this film: as many different pictures of the same event can be drawn as there were people involved, and the irreconcilability of the differing versions can often obscure the truth rather than clarify it.

After the arrest, *The Ballad of Gregorio Cortez* continues with one of the most poignantly electrifying scenes in this or any other movie — the translation scene where Cortez first learns of the charges being brought against him and the fate of his family. Cortez' court-appointed defense attorney, B. N. Abernathy, has agreed to defend Cortez because he believes him to be innocent, not because he has to.

Abernathy must communicate with Cortez through an interpreter, and Rosana DeSoto shines in this role as go-between. She cuts a tragic figure as a well-dressed and -educated Hispanic, a liberated woman of the twentieth century who will undoubtedly be unable to completely fulfill her potential because of racial prejudice. Although her part in this film is small, it should bring DeSoto deserved acclaim.

At Cortez' trial, Abernathy attempts to present the facts, and bases his case on the preponderance of evidence indicating the likelihood of a reasonable doubt. The prosecuting attorney uses sharp-tongued barbs to play to the sympathies of the jury, ignoring the conflicting testimony often damaging to the lawmen. The jury's verdict: murder without malice. The sentence: fifty years.

Edward James Olmos, whose portrayal of Cortez is but one of this film's many outstanding acting jobs, said that such a verdict was unheard of in those days for a

Mexican who was a "cop killer" — and Anglo cops at that. "It was an extraordinarily fair trial under today's standards, but in 1901 it was a totally different story," he said, adding that this case ushered in a new era of justice to the previously lawless American west. Eventually, the governor of Texas granted Cortez a full and unconditional pardon.

Emmy and Peabody award-winning director Robert M. Young's first major works were documentaries for NBC's *White Paper* series in the '60s; one of these was banned as being far too controversial for commercial television, so he switched to making theatrical features in order to have freer reign. His movies, which include *Nothing But a Man*, *Alambrista!*, *Short Eyes*, and *One Trick Pony*, still maintained the flavor of the documentary style in the context of a fictional motion picture. Young, a self-described "MIT dropout" (he did eventually graduate from Harvard), researched the facts concerning the Cortez case with the care and diligence most often reserved for academia.

A major portion of the movie's source material was provided by Judge E. W. Patterson, who presided for many years in the same courtroom where Cortez's landmark trial was held and who lived next to Sheriff Glover's widow as a boy. He had spent the past thirty years studying the case, and was honored when asked to play the role of the trial judge in the film. In fact, of the 1500 people who appear on screen, only 11 are professional actors. Since the movie was shot on location, many people from the surrounding area served as extras. This adds a sense of realism to the film, a feel which might have been different had an all-professional cast been used.

Ultimately, though, it is Olmos who makes this movie come alive. He makes it seem as if he has lived the life of Cortez, and conveys this in every scene. It is a low-key performance, befitting Cortez who lived a low-key life, but it is an emotionally wringing performance — first Olmos holds back, then lets everything loose in one torrent, only to start the process anew.

In summing up *The Ballad of Gregorio Cortez*, it might be best to let Olmos' words speak for themselves. On Young: "He is a gifted and unusual man, loaded with integrity. . . . He redefines standards of filmmaking through the craftsmanship and subtlety of his art." On Cortez: "He was no more a hero than you or I [but was] a man who made a difference." On the film: "This is an extremely important movie. . . . People will value this film 20 years from now even more than they do today."

Drew Blakeman



# New chairman Saxon recounts career

By John J. Ying

David S. Saxon '41, former president of the University of California, became chairman of the MIT Corporation July 1. He received a PhD in physics from the Institute in 1944.

**Q:** You left MIT and then returned. With hindsight, what do you remember the most?

**A:** The first time I really saw MIT when I came here as a freshman, I remember standing up in the Great Court . . . and feeling totally overwhelmed by it; MIT's reputation was so overpowering. I came from a high school that had never sent a student here. I felt absolutely awed, and I remember, coming back in these later years, a vivid recreation of those feelings of awe. I wondered whether I'd be home before Christmas, not in pride but having been unable to manage. And that came back with great vividness. Then the second thing that came back was a recollection of the important — truly important part in my development played by some of the — some of my professors in freshman year.

And there are two I want to mention because it's related to this initial feeling I had, worrying about flunking out. One of them was . . . Professor Ned Frank, physics, who was involved in teaching the freshman physics that I had which was one of the most demanding of the courses. The other was freshman calculus, which Professor W. T. Martin was teaching. And they both encouraged me. They were the first people who in a way took an interest in me, and volunteered to me the notion that maybe I wasn't going to flunk out, maybe I really should go on and make some kind of a career. That came back to me with such vividness. I've seen Professor Frank recently and I had a brief correspondence with Professor Martin but I had no chance to see him much.

I found this enormously attractive, it's a wonderful thing to do, a completely different job . . .

**Q:** What happened after you left MIT?

**A:** When I left MIT with some relatively brief interludes, not unimportant, but brief, I went to the University of California. I joined the faculty at [University of California at Los Angeles] as an assistant professor of physics.

I've been associated with the University pretty much ever since until I came back here in July. I went through the ranks in the physics department, ended up serving as department chairman, and then the dean of physical sciences, then a vice chancellor, and ultimately president of the University of California. . . .

I spent most of my career on the faculty and the last part in the administration of a single campus, but then the last eight years I spent with responsibility for the whole University of California, which is nine campuses — Berkeley, UCLA, San Diego, San Francisco, and three national laboratories, and so on. It's a huge enterprise spanning the whole state of California and beyond.

**Q:** At MIT, a reason cited for shortage of electrical engineering professors is that many professors and graduate students find job offers in industry much, much more attractive than being a professor at even a prestigious university like MIT. Do you think that trend is going to continue any longer?

**A:** I hope not. And it's quite related to what I was just talking about, that was an example that I think people here are very familiar with. I hope it won't continue. . . . I'm going to predict that it won't for reasons some of which are positive, and some of which are negative.

The negative ones have to do with the fact that the recent recession had some impact on the job market that made it less attractive for young graduates with a bachelor's degree in industry, made it harder for them to get jobs, harder for them to feel secure about their jobs, their salaries aren't quite as good. And I don't think that's going to last. But it does illustrate just how sensitive the opportunities are to circumstances over which you don't have much control, and if you only have a bachelor's degree what you can do is rather limited.

If the job market isn't very, very good in the immediate domain in which you were trained, there's not much else that you can do. That being the case, there has been a tendency for students who found it less attractive to come back into graduate schools. More students are coming into graduate schools partly because that's the best opportunity they now have. That has a negative dimension to it. They come because the attractive things don't exist anymore.



But I think there's a positive side as well which has to do with the fact that universities have tried to respond to that, tried to make it more attractive for students to come into graduate programs. The federal government made some bad errors, in my judgment. They diminished graduate support just at the time when the colleges and universities were trying to induce students to come into these graduate programs. We think we've begun to correct that. I don't think we lost so many faculty who were in universities because I think those who were there found university life to be a very satisfying one, provided facilities were available.

We've taken some steps here at MIT with the VLSI facility. If you don't have a facility like that, people interested in that field can't work in it unless they go to industry. But once you begin to provide those facilities at MIT, they're going to stay, I think. Furthermore, we've taken steps to try to provide better salaries, tried to be a little more competitive. And we did that in California. We established a separate salary scale for people in engineering because we felt it was so important that students go on and that they stay. I call those positive steps. They attract people. Some of them are negative, like people come in because they don't have a choice. I prefer the positive.

**Q:** What induced you to come back to MIT, after being at the University of California for so long?

**A:** Well, the short answer is that I was asked but (laughs) but there's a little more. It's a little longer answer than that. I had decided about a year and a few months ago, in the summer, July or August of 1982, that as I was just finishing my seventh year as president, I decided I was going to retire as president and go back to teaching, which I have always enjoyed.

My observation was that more college presidents stayed in their jobs too long than stayed in too short a time. There was a tendency for people to stay in those jobs a year longer than they really ought to. And I didn't want to do that. I wanted to step down while I still felt in some sense in command of myself and of the job. I wanted to step down before my enthusiasm evaporated, before I really felt tired. I didn't want to step down as a kind of tired, burnt-out case. I wanted to step down when I felt fully invigorated, enthusiastic, while I still had ideals, still had aspirations for the university. I didn't want to leave it with any kind of bad taste in my mouth. And the people who stay too long often do leave with a bad taste because they get eased out or whatever happens, or they have outlived their usefulness. I didn't want to do that.

As I say, I didn't find looking around the country very many examples where people left too soon, so I wasn't too worried about being too soon. And I still had several years in which I could teach. I loved teaching, always have. On the other hand, I hadn't really thought hard about physics for quite a few years and I knew that would present some problems for me. As I say, in the summer, July, whenever it was, August maybe, I decided I was going to step down and in fact on my vacation in July, I composed a letter to the Board of Regents announcing that.

We are a national resource in a number of senses . . .

The MIT people didn't quite know that, but they at about the same time or just a little later, a little after I came to my decision, I had, you know, a kind of polite inquiry about whether I might be interested in returning to MIT and that was an amazing coincidence to me. And I tell you, once I began thinking about it, I found this enormously attractive, it's a wonderful thing to do, a completely different job, and it's a change, it builds on all of my experience as a physicist, as a teacher, as a university president.

The University of California is an institution absolutely dedicated to excellence, so is MIT, and you know, just what could be nicer. What a wonderful opportunity to be associated with two institutions like that, and to come back and close the circle of my life. That's where I started, that's where my wife and I met. She's from New England. So, we were very excited about it.

**Q:** Do you have any major goals that you want to accomplish as Chairman of the MIT Corporation?

**A:** That would be presumptuous of me. I've been back a couple of months. MIT is an extraordinarily impressive place. The people here have a . . . sometimes-called unrelenting commitment to excellence. And they've done extremely well. I find among the faculty and staff great enthusiasm, a very powerful attraction to MIT. And what I'd like to do is contribute to those feelings. . . .

It's also true, I think, that MIT has been struggling in a very serious way ever since I was a student and before with the deep question of what kind of education should its students in engineering, in Course VI or whatever, and all the other courses, what kind of education should they have outside of their area of specialization? That was true when I was a student. We had to take courses in the humanities, we had to take economics, we had to do all of those kinds of things, and I come back and I find that people are still as serious about that component of education as they were when I was a student, but they're doing much better at it now.

When I was here the offerings I think were quite limited. And nothing like as powerful as they now are. Nonetheless, it's still an unsolved problem. It's a very difficult problem. They are serious about it, and they are struggling with it. I'm very interested in that, I believe very strongly, I've been talking out about it, that it's extremely



Tech photos by Foussant L. Myricks

important in a world which is becoming more and more technological — and which is nuclear — that we're going to be in a situation in which we're going to be more and more dependent on technologically-trained people. . . .

MIT believes that and they're working on it, and I feel very strongly about that. I'm very excited about being in a place where there's an opportunity to participate in those kinds of discussions and development. I also believe, and this is a slightly different twist, that we need to see to it as a society that people who are not scientists and engineers understand a lot more about science and engineering and technology than they now do. . . .

MIT is not as filled with students in the humanities as some, but it's filled with people who understand science and technology, and I think can contribute to closing that gap. Those are very interesting things.

**Q:** The government has recently cut back research grants to universities, and the recession probably will reduce private donations. Do you see the universities having much more difficulty in the future obtaining endowment funds?

**A:** I won't say "much more," but maybe continuing. I think the present situation is one in which almost all universities, private and public, are going to be squeezed quite substantially. There are some exceptions, but MIT is being squeezed. So was the University of California. I don't believe it's going to get worse, but I'm not sure it will get better very rapidly either, for a variety of reasons. Some of them having to do with the declining number of young people in the population. It's going to be a while before that turns around. And the complementary fact that we have an aging population that demands on public services. . . .

I'm not going to try to be an economic forecaster; maybe there will be a vigorous upturn and things will get better. But I do believe on the hopeful side that there is a very substantial agreement now about the importance of education for the future of the country. Not just technical education, . . . but education generally. MIT, because of the particular prominence that has been given to technical education, scientific education, is recognized to be a genuine national resource.

We are a national resource in a number of senses, for one thing, MIT, through its research, generates very important new kinds of knowledge, and new kinds of technology. It has been in the forefront of development which have been extraordinarily important. It is also turning out the people who are going to contribute through their knowledge and expertise to the management and development of this technological society. In other words, we're turning out people of the highest quality because we start with people of the highest quality.

MIT students are really quite fantastic. The general feeling . . . is that the brightest students in the country, and maybe in the world are right at MIT. It's not just that MIT is selective, it's a question also of self-selection of students who apply to the place. . . . You really have in this place a remarkable concentration of extraordinarily eager, intelligent people. And that's a very heavy responsibility to deal with those people and to make sure that they go on and lead productive lives. We're doing something that's very important. The country can't afford to let us, or you, go to waste. To let us not do well by you and not to let you develop your talents to the fullest. I have some optimism. I think that's recognized. And I think MIT is going to be supported.

**Q:** What do you think about Nuclear Free Cambridge, and of the long-term implications for research?

**A:** I fully support the position that President Gray has taken. I've been given the opportunity to participate in discussions on what MIT's position ought to be, and so I've been informed about that from the beginning. I think that's the correct position to take.

Let me try to say with respect to the implications, there are two ways you can answer that question. Obviously there is an implication which extends beyond Cambridge and extends beyond this moment which has to do with the extent to which people everywhere are worried about life in a nuclear age. What is it we can do to diminish the likelihood of nuclear catastrophe? That implication is clear and it's one that I think is, and ought to be developed. It is a very real, reasonable concern people have. The real question is, given that concern, what are the best ways to do something about it?

I have to say I'm not persuaded that the nuclear free initiative is a particularly effective way. In fact, I feel quite confident that it will ultimately turn out, if passed in November, . . . to be unconstitutional for a variety of reasons. So, from that perspective, I think its implications may not be very great, but we'll see.

# Agnes of God not trash

*Agnes of God*, by John Pielmeier, directed by Michael Lindsay-Hogg, starring Elizabeth Ashley, Mercedes McCambridge, and Maryann Plunkett, at the Schubert Theatre through Sunday, November 6th.

Kevin Kelly, theater critic for the *Boston Globe*, has written of *Agnes of God*: "Three actresses make trash worth seeing." Once again Kelly has, with his unbridled scorn, done a disservice to Boston theatre-goers. John Pielmeier's script is far from perfect, reaching for a level of profundity nearly impossible to express, but I challenge anyone who attends this show not to be affected by the playwright's vision. It is powerful, almost overwhelming material, and in the hands of Elizabeth Ashley, Mercedes McCambridge, and Maryann Plunkett, *Agnes of God* is as disturbing and thought-provoking a play as you are liable to see this season.

*Agnes* is best described as a psychological mystery. A young nun, Agnes, is charged with the murder of the baby she gave birth to in her room at the convent. She becomes caught in the struggle between the court-appointed psychoanalyst who thinks she might have mental problems and the Mother Superior who fervently believes Agnes is a saint. The play unfolds in a series of examinations, flashbacks, and confrontations in which we learn about Agnes' relationship with her mother — who abused her both mentally and sexually — and her Mother Superior. All this is couched firmly in the context of two paramount questions: Who murdered the infant, and, more importantly, who was the father?

Pielmeier draws his characters with a deft hand. All three women — Agnes, Dr. Martha Livingstone, Mother Miriam Ruth — are marvellously three-dimensional; they all vie for our sympathy. He reveals important information naturally, but in such a way as to heighten the tension to

feverish, sometimes unbearable levels.

Yet Pielmeier is more than another hack mystery writer. He weaves thematic material throughout the dialogue as though he were composing a fugue. He fleshes out attitudes about motherhood, religion, science, and faith with firm control, but occasionally dialectic argument gets out of hand and the play's action suffers. Most distressing is the discussion of science versus faith that precedes the final climactic hypnotism examination of Agnes. The playwright encounters a serious structural problem here; he needs something to divide two scenes temporally, but in halting the action he risks losing our focus.

Pielmeier's use of comic relief also comes into question: The play's intensity does need relaxing now and then, but sometimes the laughs come cheaply. There are also a number of character coincidences that are obviously contrived, but Pielmeier's use of imagery is astonishing. Agnes' descriptions of her mystical experiences are at once sensuous, erotic, and unbelievably terrifying.

Director Michael Lindsay-Hogg has staged the play almost flawlessly. The scenery is stark — two chairs, an ashtray, and a vast concave wall that dominates the space — and the shifting lighting constantly holds the audience's focus on the characters. Lindsay-Hogg is economical with his actresses' movement: All gestures are precise and all motion is well motivated. Agnes' frenetic action in the final scenes explode with such force that it becomes painful to watch her.

*Agnes of God* is the kind of play that you would hate to see amateurs perform. It demands intense commitment from its players, a commitment that Elizabeth Ashley, Mercedes McCambridge, and Maryann Plunkett deliver with gusto. Ashley's Dr. Martha Livingstone is undoubtedly the toughest role, in which she remains on



# ARTS



stage through the entire play, serving as narrator, commentator, and scene participant. Ashley has been playing this role since the play opened on Broadway in 1982 and in some places it shows — certain gestures and facial expressions seem to come by rote towards the end of the evening. Yet her's is a gutsy performance, exploring the character's complete emotional range. McCambridge plays Mother Miriam Ruth with fascinating restraint, beginning the play as the antagonist, but gradually opening up and becoming someone we can care for.

Maryann Plunkett is the uncontested standout performer in this show, and her Agnes is the most convincing character to grace the Broadway stage in quite some time. Her voice rings with the innocence of a child who has never been exposed to anything in the outside world, and the torment her character is subjected to is horrifying. She never loses control, however, describing her visions with an eerie clarity and a contagious fear. It is Plunkett's god-like endeavor that makes *Agnes of God* such a heavenly production.

William Bryant

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# Sophomores prefer science to Chem. E

By Andrew Bein

Course enrollment by the Class of 1986 shows a decreased popularity for the Department of Chemical Engineering and an increase for the School of Science.

The Department of Chemical Engineering saw a drop in enrollment of 62 sophomores, compared to last year, according to a report released by the Registrar. The department gained 133 sophomores last year, although only 106 remain as juniors.

"This department had the highest ratio of student to faculty, and, with [the Department of Electrical Engineering and Computer Science], still has the highest ratio" in the Institute, said Professor James Wei, head of the department.

"I believe this department doesn't have faculty for 133 sophomores," he said. "Seventy is a more comfortable level, for myself and the professors."

The department had but 35 sophomores in 1971, but the enrollment rose steadily due to increased "national production in pollution, oil, and synthetic fuels," he said.

Expansion in those areas has slowed recently, and jobs have become more scarce, causing much of the decrease in enrollment, he said.

"I hope the people we lose are not from the top of the quality list," he added.

Professor John M. Deutch '61, dean of the School of Science, said that increases in enrollment in that school "are usually due to changes in student interest and perception. . . . The job market is one factor but not the only one."

The School of Science gained 49 more sophomores than it had last year.

The Department of Biology, for example, saw an increase in enrollment of 17 sophomores. Gene M. Brown, head of the department, said it is an "easy transfer to make from chemical engineering to biology."

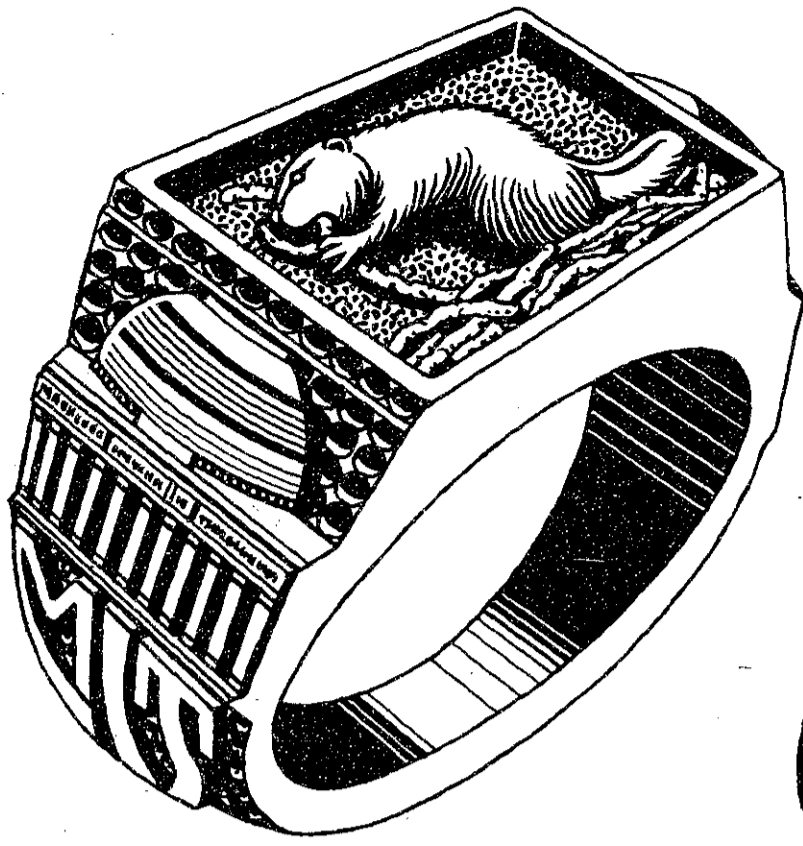
The National Academy of Science rated MIT's graduate program in biology best in the country in three major areas, which "didn't do us any harm," Brown said. Offering subjects in biotechnology may have also contributed to the increase, he said.

Harold J. Hanham, dean of the School of Humanities and Social Science, said students "tend to go to the market," although the school would "obviously like to have more majors."

"What it tells us about most of our students is that they are job oriented. That isn't such a stupid thing," he added.

The Registrar's report also showed 379 sophomores enrolled in the Department of Electrical Engineering and Computer Science, an increase of 42 over last year.

The number of sophomores declaring majors in the Schools of Architecture and Planning, Humanities and Social Science, Management, and Science, totalled only 305.



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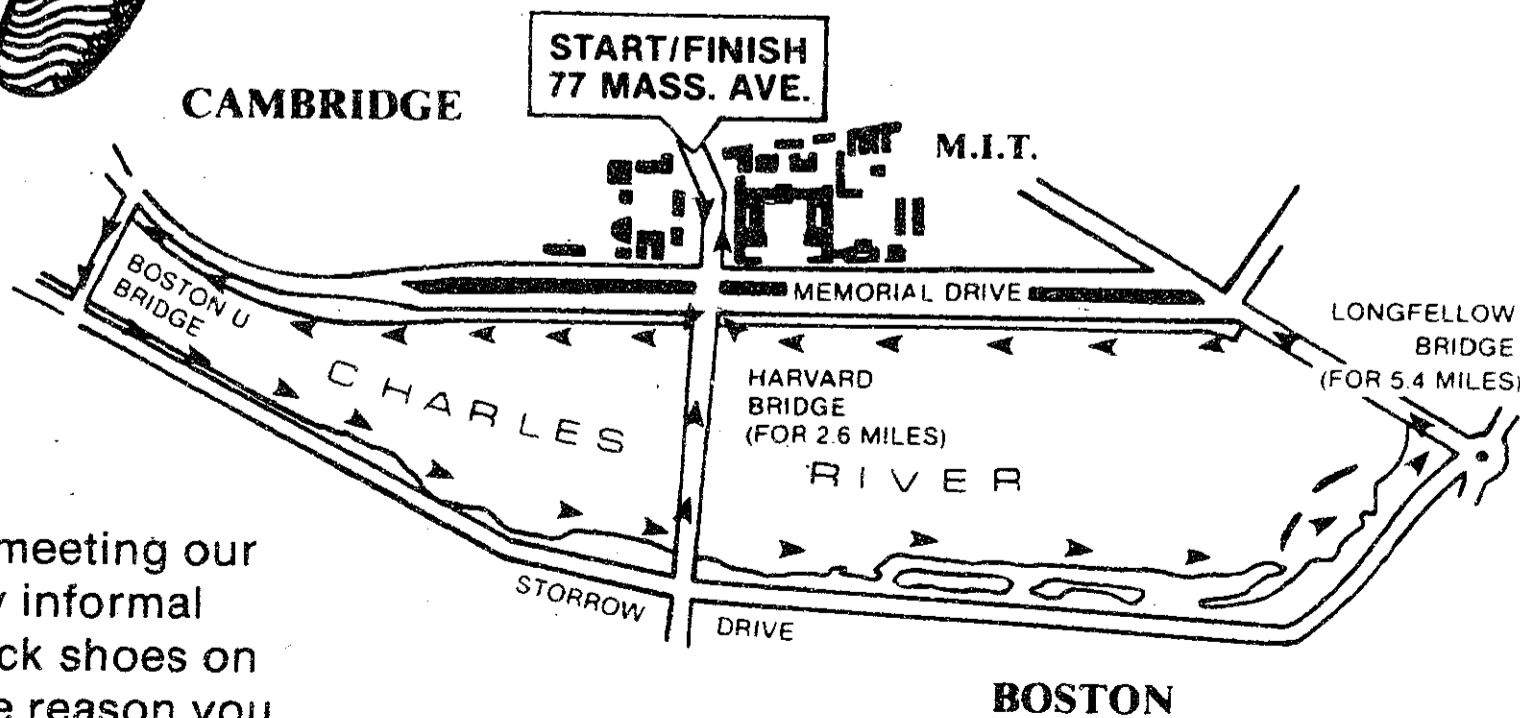
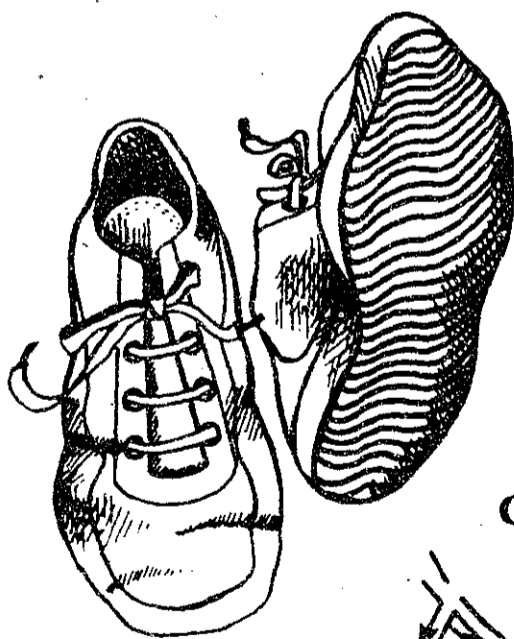
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Our Technical Recruiters would like you to join them for a morning hour jog. We'll begin at 77 Massachusetts Avenue at 6:30 a.m. each day, jog down Memorial Drive to the Boston U. Bridge, cross over to Storrow Drive and head down to the Longfellow Bridge, cross back over to Memorial Drive and finish up our 5.4 mile jog back at 77 Massachusetts Avenue. Some of our managers will turn back up Massachusetts Avenue at the Harvard Bridge for a 2.6 mile run.



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# notes

## Tuesday, Nov. 1

Seniors who wish to apply for graduate work in the Department of Electrical Engineering and Computer Science during 1984 are urged to apply by Nov. 1. Applications may be picked up in rooms 38-444 and 3-108.

\* \* \* \*

Students interested in applying to be R/O '84 Coordinator should attend a brief informational meeting on Thursday, November 3 at 5 p.m. in the UASO, room 7-104. If you cannot attend, see Peggy Richardson in room 7-104.

\* \* \* \*

The MIT Disarmament Study Group and the Technology Culture Seminar Seminar Series sponsor a panel discussion on the Nuclear-Free Cambridge Referendum, Tuesday, Nov. 1, at 5:00 p.m. in room 9-150. Call Finley Shapiro for more information at x3-3624.

## Wednesday, Nov. 2

A symposium on Constructive Approaches to Interracial Harmony will be held at 7 p.m. in room 10-250, featuring geneticist Richard Lewontin of Harvard, civil rights historian John Dittmer of MIT, and educator William Smith. The Symposium is sponsored by the MIT Baha'i Association; for more information, call x5-2112

\* \* \* \*

The Visible Language Workshop will present DATA DATA, an exhibition exploring visual artifacts from primary research at MIT. The exhibit opens today and runs through the end of the month in the VLW gallery at 275 Mass Ave. Opening reception is today from 5:30 p.m. to 7:30 p.m.

## classified advertising

**Classified Advertising in The Tech:** \$5.00 per insertion for each 35 words or less. Must be prepaid, with complete name, address, and phone number. The Tech, W20-483; or PO Box 29, MIT Branch, Cambridge, MA 02139.

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The MIT Equipment Exchange offers surplus equipment and used typewriters to students and staff at reasonable prices. Located in Building NW30, 224 Albany Street. Open Mon., Weds., Fri., 10 am — 1pm.

## Friday, Nov. 4

The film *The Secret Policeman's Other Ball* will be shown in a special benefit performance for Amnesty International at 7:50 p.m. at the Harvard Square Theater. For more information, call Mike Tamada, 277-7207.

\* \* \* \*

Harvard University's Eliot House will present *An Evening with Champions*, a figure skating exhibition to benefit the Jimmy Fund and its fight against children's cancer. During its 14 years, the exhibit has become an internationally acclaimed showcase for skating's champions. For schedules, ticket prices, and information, call Deb Taft, 498-2375 or Doug Zeghibe, 498-2343.

\* \* \* \*

The New England Invitational Songfest will be held today in room 10-250, at 7 p.m. Groups featured will be the MIT Logarithms, the Tufts Beelzabubs, the Bowdoin Miscellania, and the MIT Chorallaries. Admission is free; call David Anderson at 247-8355 for more information.

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# comics

Stickles  
By Geoff Baskir

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WELL, CAN I GET YOU TO SIGN THIS PETITION IN SUPPORT OF BEAM WEAPON RESEARCH?

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MUST YOU FOLLOW ME IN HERE?!

DID YOU KNOW THAT FEWER PEOPLE DIED IN NUCLEAR ACCIDENTS THAN IN TED KENNEDY'S CAR?

WOMEN

Outside Looking In  
By V. Michael Bove

GRUMBLE GRUMBLE GRUMBLE TOO DAMN EARLY TO BE UP GRUMBLE GRUMBLE UNINTELLIGIBLE TWO-HOUR LECTURES GRUMBLE

GRUMBLE WHERE IN HELL ARE MY SHOES? GRUMBLE GRUMBLE GRUMBLE GRUMBLE

STEADY, THERE - I'LL BE OVER IN A SECOND, GEORGE.

GRRRRRRRRR RRRR RRRR HERE YOU GO.

SWIPE

THANK YOU VERY MUCH, MICHAEL. SO TELL ME, WHAT INTERESTING THINGS HAVE YOU LINED UP FOR TODAY?

MAD GEORGE JUST ISN'T FIT FOR POLITE SOCIETY TILL HE'S HAD THAT FIRST CUP OF SCOTCH IN THE MORNING...

Room 001  
By Carol Yao

A LETTER FROM GERARD!

DEAR PENNY, I JUST THOUGHT I'D DROP YOU A LINE FROM TUSCON. WORKING OUT HERE SURE BEATS 6:11 LAB. THE SECRETARIES ARE VERY FRIENDLY. THEY KEEP ASKING ME WHETHER I HAVE A GIRLFRIEND.

I NEVER KNOW WHAT TO SAY. I THINK A LOT ABOUT YOU, PENNY. LAST NIGHT I REMEMBERED IT WAS YOUR BIRTHDAY. IT FILLED ME WITH SAD MEMORIES OF THE PAST.

HE MISSES ME!

I HOPE I'M NOT BEING FORWARD IN SENDING YOU A PRESENT. A SIMPLE GESTURE, PERHAPS, OR A TOKEN OF MY ESTEEM? I JUST WANTED TO GET YOU SOMETHING TO COMFORT YOU ON THOSE LONG, LONELY ALL-NIGHTS.

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RESPECTFULLY,  
Gerard.

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Space Epic  
By Bill Spitzak

LOOP SKYBALKER MEETS DARK NADIR!

DAD - I NEED MONEY.

MEANWHILE, THE REBELS ATTACK THE DEATH GLOBE!

STAY IN ATTACK FORMATION!

LOOKOUT! THE SHIELD IS STILL ON!

DOWN ON THE PLANET, THINGS ARE EVEN MORE CONFUSING!

FIGHT, HAN, FIGHT!

HOW DO YOU EXPECT ME TO FIGHT LIKE THIS?

LOOP SKYBALKER MEETS THE EMPEROR -

HI THERE



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# Police tag bicycles

By Gary J. Drlik

The number of reported bicycle parking violations is large, as expected for this time of year, according to James Olivieri, chief of MIT Campus Police.

Riders are creating safety hazards by parking their bicycles in stairwells, handicap zones, and next to automobile parking meters, he said.

Most violations have occurred near the Student Center and along Massachusetts Avenue in front of Building 5, he said.

Bicycle owners consider certain bicycle racks "not convenient," Olivieri said, and they prefer to park in other areas. "Any post becomes fair game" to bicycle riders who cannot find a space at the nearest rack.

More people bicycle to the Institute during warm weather in early fall and late spring, Olivieri explained. The Campus Police issue more violations during those times than during other months, he said.

Violations are "virtually non-existent" from January to March, he added.

A shortage of bicycle racks contributed to the number of violations in the past, he said. The MIT Committee on Safety installed additional racks behind the Student Center and by the Bush Building (Building 13) and the Medical Department (Building E23) earlier this year.

Campus Police tag illegally

parked bicycles to warn the offender they "may remove bicycles in violation that are locked with chains, cables, Citadel, Kryptonite [locks], etc.

"Such removal may permanently damage locking mechanisms," the tag states.

Campus Police has tagged many bicycles this year, Olivieri said, although it has removed "no more than a dozen."

The effort to crack down on bicycle parking violators is more intense this year than in the past, he said. The effort, however, lacks "consistent, daily enforcement" due to limited time and manpower and to the seasonal nature of the problem.

Perhaps the most obvious violations are those on the paraplegic ramps near the Tech Coop. Students park bicycles on the ramps despite notices restricting such use.

Bicycles can also be found in the stairwells of Buildings 36 and 38 and the atrium of the EG&G Education Center (Building 34). The Institute has bicycle parking areas outside Buildings 5 and the Hayden Memorial Library (Building 14).

Students sometimes attach bicycles to fire hydrants and lamp posts. Some bring the bicycles to class to avoid parking.

Many dormitories offer bicycle parking areas, which are sometimes enclosed for security.

## TEXTS FROM TECH

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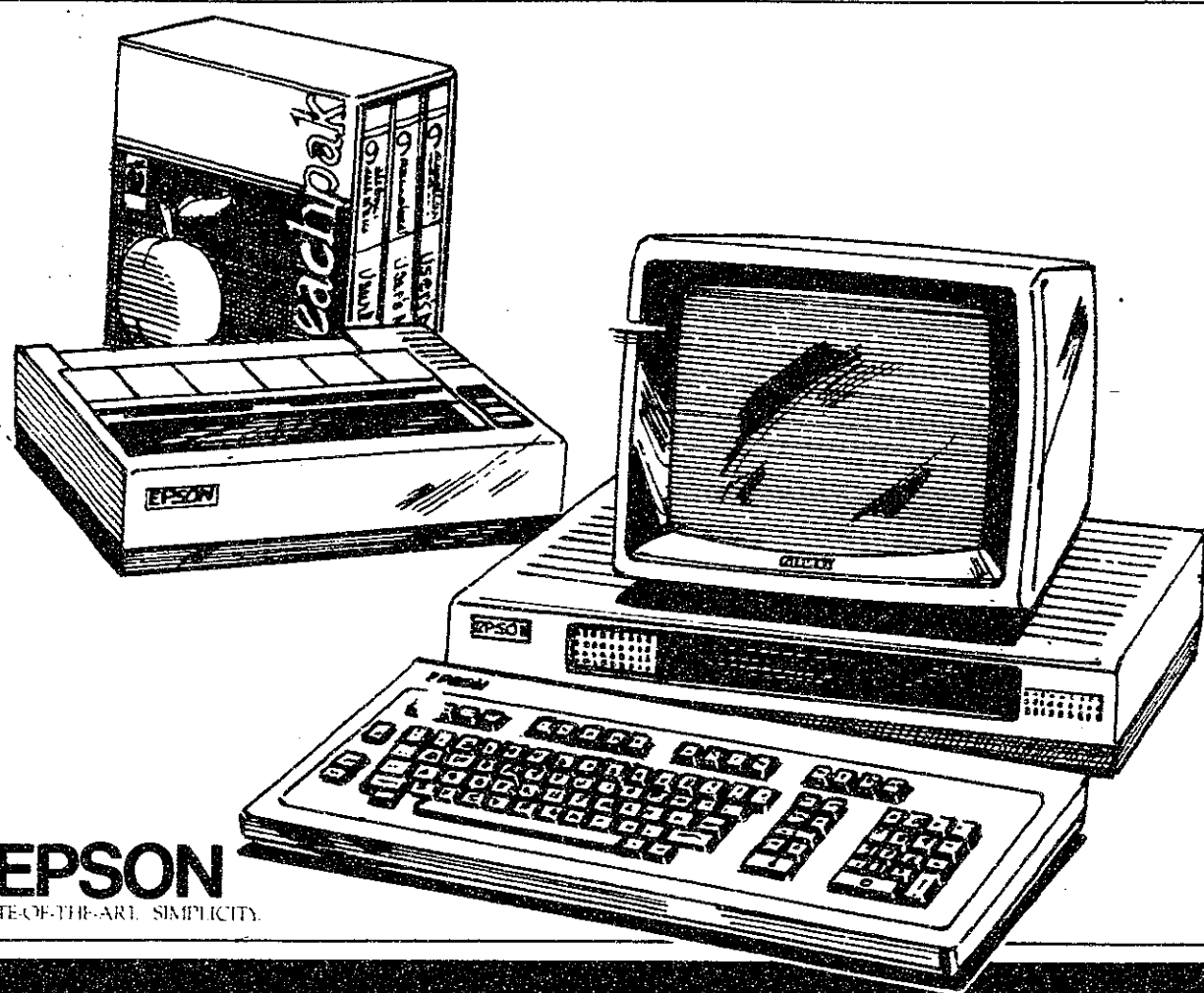
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# sports

## Soccer ends home season with 2-0 loss

By Arthur Lee

The Coast Guard Bears shut out the men's soccer team 2-0 Saturday afternoon in MIT's last home game of the season before the empty stands of Stenbrenner Stadium. The Engineers' record now stands at 3-8-1.

Neither side managed to put up any effective offense in the first half. Although the Bears outshot MIT seven to four, they

fense in the second half, outshooting the Engineers 10-3 and forcing Schoen to increase his already aggressive defensive activities inside the penalty area. The MIT goalie made seven more saves before the game was over.

Coast Guard's Ron Bald caught Schoen at the wrong side of the goal with 17:59 left in the game to account for the visitors' other score. From thirty yards

out, Bald took a pass from Derek Donnelly and landed a pretty shot into the right side of the net.

Despite some good hustle by Billy Mayweather '86, Marshall Jackson '87, Victor Guzman '87, co-captain Mark Jennings '84, and Joey Pemberton '84, the Engineers simply could not generate enough offensive pressure to crack open the Bears' defense. The same could have been

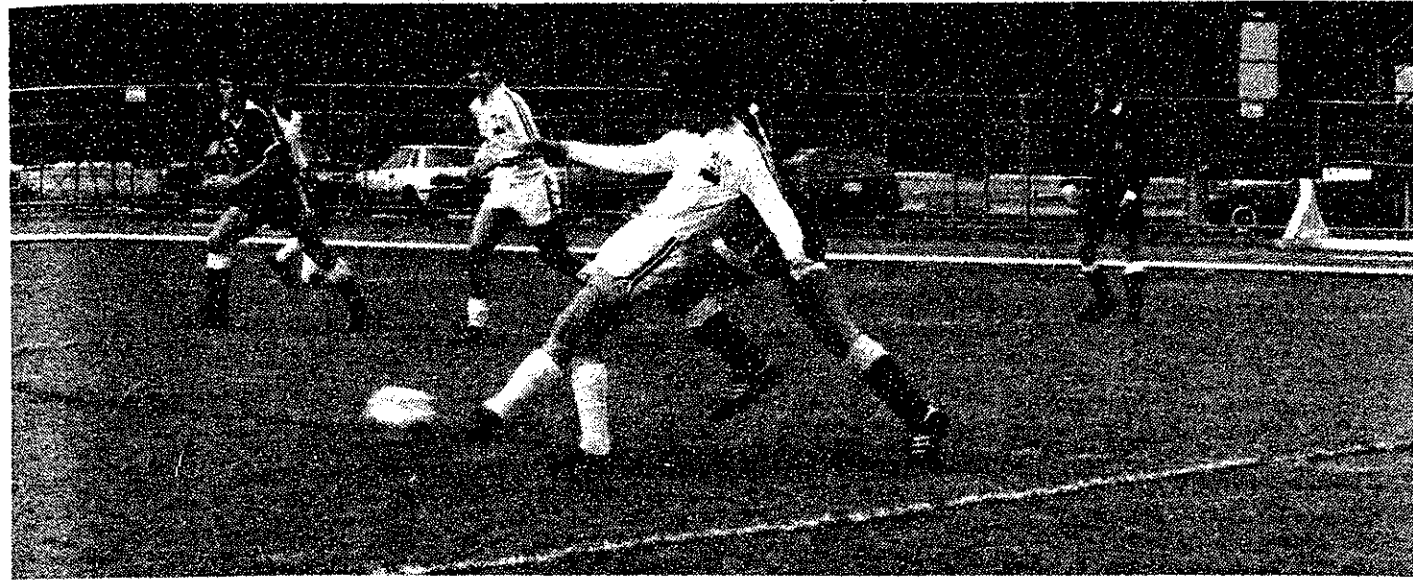
said about the Bears' offense, but it did score two more goals than did MIT.

Commenting on his team's seventh loss by shutout, MIT coach Walter Alessi said, "We played well. Our defense was good, but we simply cannot win games without scoring goals."

Alessi also commented on the

Engineers' overall performance this season, saying, "At the pace we are going, we may end up only one tie better than last season. But we are a young team, and we tried."

Alessi's team winds up the 1983 season on the road, with a 2 p.m. match against the Stonehill College Chieftains.



Tech photo by P. Paul Hsu

Mark Johnston '84 passes the ball upfield during MIT's loss to Coast Guard on Saturday.

were not able to capitalize on the few mistakes that the Engineers made.

Ten minutes into the half, however, Coast Guard's Brian Merrill managed to slip the winning tally past goalie Mike Schoen '87. The MIT backfield, together with the three saves made by Schoen, effectively clamped down on any further Coast Guard intrusions for the remainder of the period, but the damage had been done.

The Bears stepped up their of-

## Rugby blanks biggest rival

By George Walrond

Three years and six matches had passed since MIT rugby had defeated Norwich University, but the losing streak ended Saturday as the Beavers' "A" side dominated the New England powerhouse 10-0.

MIT, now 4-3 overall, has won four of its last five games as the discipline of first-year coach Kevin O'Brien shows its effect. O'Brien, who grew up playing Welsh rugby and is recognized as one of the top coaches in the nation, coached the Beantown Rugby Club to last year's national women's championship. This fall he has turned the Beavers into a 15-man machine.

It was O'Brien's machine that turned the tables on Norwich Saturday. All afternoon the MIT forwards swarmed around the ball to win it for the backs. Tech back Mike Hunter '84 opened the scoring early with a 30-yard penalty kick.

Wing Rick Dicocco G added four more to the lead midway through the first half, doing a tightrope act down the sideline to break through the Norwich defense for a 20-yard try. The score remained 7-0 at halftime.

The second half turned out to be a defensive stand-off, with the only points scored coming on another Hunter penalty kick. The game ended in a long-awaited 10-0 win over MIT's biggest rival.

The Beaver "B" side also came up with a victory, downing Framingham State 19-4. Again MIT opened the scoring early when Steve Schwed G ran 60 yards for a try. Mike Witt '84 led all scorers with 11 points, and coach O'Brien added another try.

O'Brien said he was pleased with the day's results, but added the team still has a lot of work to get ready for this Saturday, when MIT will host a tournament featuring six local teams.



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# sports

## Football upsets unbeaten Falcons, 18-13

By Martin Dickau

MIT head coach Dwight Smith summed up Saturday's club football upset of the Bentley Falcons in three words: "Nobody believes us." He shook his head in amazement. His Engineers had just scored a 18-13 win over the league's only undefeated team, a team with a 16-game unbeaten streak, last year's national club champions.

"We beat Assumption," he noted, "but Worcester didn't believe us, and we almost beat them. We could be 7-0 right now."

"I give our defense a lot of credit," he continued. "Bentley's been getting 30 points a game." MIT held the Falcons to 216 total yards, including a mere 26 yards rushing during the second half. Defensive end Mike Thompson G led the way with two sacks, and defensive tackle Larry Munroe G came up with 5 unassisted stops.

The game began as a battle of the defenses; neither team had much success moving the ball on offense. The MIT defense came out on top, however, when Bentley tried a fake punt early in the second quarter. The Engineers were not fooled, and Falcon fullback Matt Tiano was able to get but half the yardage he needed. MIT took over on its own 34.

The Engineer offense, perhaps

**MIT 18, Bentley 13**

MIT	0	6	6	6	—	18
Bentley	0	7	6	0	—	13

MIT—Allen 35 run (kick failed)  
Bentley—Copponi 9 pass from Cowles (Tirrell kick)  
MIT—Kerstetter 24 pass from Broecker (pass failed)  
Bentley—Tiano 1 run (run failed)  
MIT—Broecker 20 run (pass failed)  
Attendance—200

	MIT	Bentley
First downs	10	12
Rushes-yards	56-199	39-87
Passing yards	40	129
Return yards	72	44
Passes	9-3-0	17-8-1
Punts	6-156	4-146
Fumbles-lost	3-1	2-2
Penalties-yards	4-37	5-27

**Individual Leaders**  
Rushing—MIT, Broecker 19-87, Allen 15-70, Bentley, Doolittle 16-70, etc.  
Passing—MIT, Broecker 9-3-0-40 Bentley, Cowles 17-8-1-129  
Receiving—MIT, Kerstetter 1-24 Bentley, Copponi 3-78, Wessel 3-34

### Update

## Volleyball takes tourney

The women's volleyball team, currently ranked fourth among the nation's NCAA Division III schools, continued its tear last weekend, sweeping all four of its matches en route to winning the Northeast Intercollegiate Athletic Conference Tournament hosted by Skidmore College in Saratoga Springs, New York.

The Engineers defeated Bates, Williams, and Connecticut College by identical 2-0 scores to advance to the finals, where MIT administered the same treatment to Mount Holyoke. The team returns home tonight for a 7:30 p.m. match against Division II Springfield. The match will be held in duPont.

## Field hockey ends with 3-1 victory

The field hockey team finished its season with a 3-1 win over Wellesley Thursday afternoon. The victory gave the Engineers a 7-6-1 record — the team's best since 1980. MIT outscored its opponents 31-15 in compiling the winning record.

## Rifle opens at 6-0

The varsity rifle team started its season in fine style Saturday, topping six other schools in a league match hosted by MIT. Final scores were MIT 2191, Coast Guard 2091, Norwich 2075, Dartmouth 2004, Wentworth 2004, Northeastern 1952, and Maine 1948.

inspired by the fine defensive effort, put together its first sustained drive, advancing to the Falcon 35 in five plays.

Quarterback Dave Broecker G and halfback Fred Allen '84 then combined on a sparkling delayed play, with Broecker faking a pass before handing off to Allen, who eluded a tackler and ran up the left side of the field for a touchdown. Tom Hastings G missed the extra point due to a bad snap, but the Engineers had themselves a 6-0 lead.

Bentley came back with a drive of its own late in the period to take the lead 7-6. Mike Cowles connected on a nine-yard strike to tight end John Copponi in the MIT end zone, and Doug Tirrell put the kick through the uprights to give the visitors the edge at the half.

Allen played a key role in helping MIT get back on top, returning the second-half kick-off 40 yards to the Falcon 46. Strong running by Dan Curran '85 and Dave Peakes '85 brought the ball to the 24, and Broecker found tight end Corey Kerstetter '87 alone in the end zone for six. The score remained 12-7 when the try for the two-point conversion failed.

Bentley regained the lead with no time remaining in the third quarter. Hastings fumbled the snap on a punt attempt and was downed at the MIT 43. Cowles covered most of the distance with a 41-yard pass to Copponi, and two short runs by Tiano brought the ball in for the touchdown. Good defensive pressure denied the attempt at the two-point conversion, but the visitors again had the upper hand, 13-12.

MIT took the lead for good about seven minutes later, thanks to a fine individual effort by Broecker. The Engineers regained control of the ball on their own

## Pair of crew teams excel at Schuykill

The team of Barret Caldwell '84, Russell Murphy '82, Mark Schaeffer '83, Dave Payne '83, and Randy Schweickart '83 won the men's Elite Lightweight Four race in the Head of the Schuykill in Pennsylvania last weekend. The rowers topped 37 other entries to capture the event.

Elizabeth Bradley '83 and Ruth Fricker '85 were at the same regatta, and teamed up to second of three in the women's division and 14th of 20 overall in the pair race.

## Three women race in New England

The women's cross country season came to a close in Worcester Saturday, as three MIT runners competed in the New England Open Championships. Ruth Hefernan '85 was the top MIT finisher with a time of 21:24 over the five-kilometer course. Karen Neder '86 ran a 21:47, and Andrea Ghez '87 a 22:22.

## Busy day for sailors

The varsity sailing team participated in two meets Sunday, hosting the Schell trophy, where MIT finished 10th of 16 teams, and taking part in the Boston University Invitational, where the Engineers placed third of seven.

Martin Dickau

39. Broecker's runs of 19 and 16 yards, sandwiched between short gains by Curran, Allen, and Peakes, moved MIT to the Falcon 20.

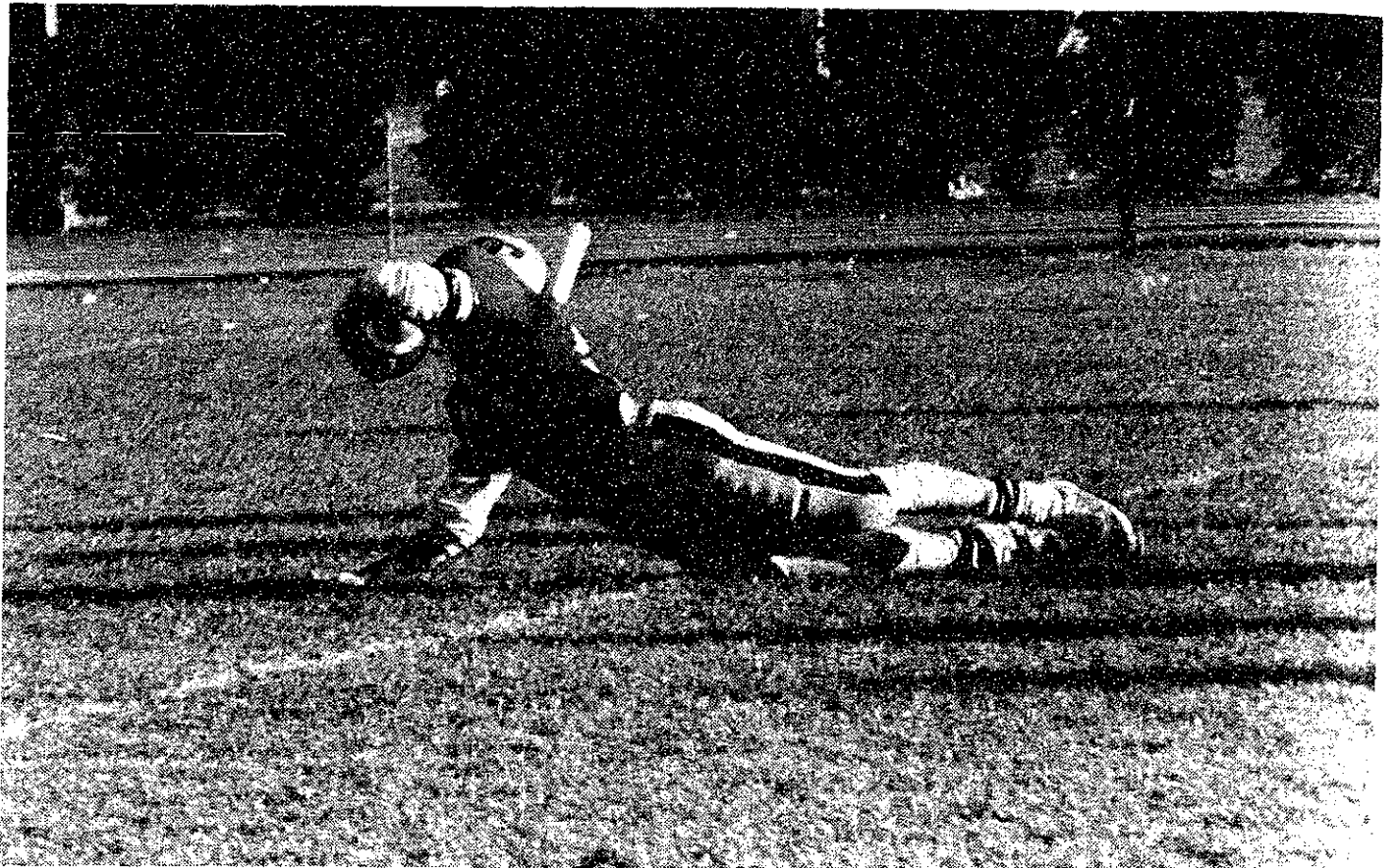
Broecker opted to take the ball on a keeper up the middle, where he found a substantial hole in the defensive line. He went the whole

20 yards — the last seven with one arm keeping his body off of the ground. Again the try for two points was no good, but the score was MIT 18, Bentley 13.

The Engineer defense played with a vengeance, protecting slim lead. The Falcons managed to get to the MIT 35, but a Thompson

sack for a loss of nine yards on fourth and four quashed the threat.

The Engineers will play their final home game of the season Saturday at 1:30 p.m. against the Falcons of Fitchburg State, currently third in the league standings.



Tech photo by Joseph T. LaRocca  
After stumbling on his hand for the last seven yards, Dave Broecker G crosses the endzone to score MIT's winning touchdown.

Eric R. Fleming

## Football club earns respect

Respect. Our MIT club football team has worked hard to earn it this year, and on Saturday it showed why it deserved that respect, knocking off Bentley 18-13, in what is unquestionably the biggest win in the six-year history of the program.

The Bentley College Falcons are one of the best club teams in the nation. They flew into Steinbrenner Stadium boasting a 6-0 record this year, a 16-game winning streak, and the honor of being the national club football champions. Last year, they smashed our Beavers on Homecoming Day, 46-0.

This year, on that cold, windy Saturday, the story was vastly different. MIT's running game — the best in the conference — took control and picked up the tough yards in tight situations. Defensively, although the Beavers'

young secondary was still vulnerable to the pass, the team kept the enemy offense under control.

The contest was close all the way, and very physical. I'm sure Frank Griffith and Jim Bittman are thinking about some of the hits they took on pass routes, while our Larry Monroe and Jon Opalski gave out some good licks as well.

I think our guys must have seen the New England Patriots-Buffalo Bills game of two Sundays ago, because when the fourth quarter "crunch time" began, MIT gave a superlative performance, not unlike the skunking the Pats handed to the Bills.

Dave Broecker's touchdown run, giving MIT the winning margin, was an incredible individual effort and was typical of the quarterback's performances this

year. He squeezed through a small hole off left tackle, pulled away from several defenders, and literally stumbled into the end zone, using his hands to keep his balance for the last seven yards.

Bentley's score to end the third quarter was all the Falcons would see of the Beaver goal line, as the defense played the best 15 minutes it has all year. The secondary closed like a vise around the Bentley receivers, forcing signal-caller Mike Cowles to run. Although he managed to pick up good yardage on several occasions, his time ran out as Mike Thompson, MIT's big-play man on defense, sacked Cowles twice in crucial situations to save the game.

"A team effort" is a cliché, and we all hate clichés, but no other phrase can describe Saturday's game. The individual highlights are not possible without help from the other ten players on the field and the support of the whole team. Support is what both the offensive and defensive squads had; numerous times, the offensive unit could be heard chanting, "Defense!! Defense!!" while its teammates were on the field. When the game was over, our Beavers put on a display of emotion rarely seen around here. They knew they had beaten Bentley physically and emotionally.

Bentley knew it too. The faces of the fallen Falcons were long and sour as they headed toward the bus without even bothering to shower or change.

MIT's record is 4-3, but could easily be 7-0 or 6-1 with a few breaks. Our three losses have been by a combined total of 21 points, including one overtime loss. Those games are behind us, however. What is more important is that teams like Worcester State (which beat MIT 42-3 last year, but was lucky to come away with that overtime win last week), Bentley, and Assumption know that the Beavers are for real, and that this team is one that must be reckoned with next time around. That, my friends, is respect.



Tech photo by Joseph T. LaRocca  
Fred Allen '84 slips by a Bentley defenseman on his way to score MIT's first touchdown Saturday.