



A path of primroses replaces the "nerd path" in Kresge Oval.

Tech photo by P. Paul Hsu

State looks for waste disposal site

By Kevin D. Hurst

Last in a series

A crisis in radioactive waste disposal will force MIT and Massachusetts to explore methods to reduce and dispose of low-level radioactive trash.

Research in hundreds of MIT laboratories will be jeopardized, according to Francis X. Masse, radiation protection officer at MIT.

"1984 is a year of critical decisions," he said. Massachusetts faces a 1986 congressional deadline to find a place to dump its radioactive garbage. "In the past the state has wasted too much time on less important issues."

The alternatives for disposing of low-level radioactive (LLR) waste are limited. Burying the waste in shallow trenches is the simplest solution. This approach is used by all three existing U.S. disposal sites.

But dangers due to soil erosion or radioactive seepage into the water table forced closing of some LLR sites in recent years. "The environmental community is very loath to accept shallow land disposal," said Marvin M. Miller, principal research scientist in the Energy Lab. "Hydrogeology is just too complicated to satisfy environmental concerns about this method."

Another method is to incinerate some of the trash. "The amount of radioactive material that escapes up the [furnace smokestack] is so small that by the time it comes back to the ground it is very dilute," he said.

Because the waste costs \$300 per drum to ship and process, a rate likely to rise sharply in the next few years, MIT must continue to reduce shipped waste by segregating the trash carefully at the source, Masse said.

Deregulating some types of

trash that are now classified as radioactive but lose radioactivity after a short time would reduce the volume significantly, he said.

Most of the LLR waste is produced in research labs in such fields as biology, chemistry, earth sciences, metallurgy, and cancer research. Masse said much of this research would be shut down if a disposal site is not available at the 1986 deadline.

"It's a competitive market. If [the California Institute of Technology] can do things that we can't; they will get the government contracts. That's the bottom line," Masse commented. California is building its own disposal site, he said.

Massachusetts state government has been negotiating with other New England states to create a regional disposal site, but each state is unwilling to house the site, Miller said. "A governor [who proposes to host the project] would be almost committing suicide," he said.

Since Massachusetts is not suitable for conventional trench disposal of waste, it may resort to trench disposal with underground "engineered barriers" that shield the water table from radioactive contamination, Miller said.

Frosh pick majors

By Arvind Kumar

With 877 out of 1073 freshmen major forms tallied, one-third indicate a major in the Department of Electrical Engineering and Computer Science (Course VI), according to Peggy Richardson, executive officer of the Undergraduate Academic Support Office.

As of last Friday, 197 freshmen listed a major in electrical engineering (VI-1) and 90 listed computer science (VI-3), Richardson said.

Professor Arthur C. Smith, chairman of the faculty and a professor in the Department of Electrical Engineering and Computer Science, said the number choosing to major in Course VI is "mildly encouraging."

Smith said he had thought over 400 students would enroll in the department, but he now expects the number to be "more like 350."

If Course VI enrollment exceeds 350, he said, some action for future admits might need to be taken. (Please turn to page 2)

AFROTC head says corps is not an aid or grant program

By Diana ben-Aaron

MIT students who hold Air Force and Army Reserve Officers' Training Corps scholarships are restricted to certain areas of study, according to the two program directors.

Air Force ROTC scholarship awards are "contracts to major in a specific field," said Colonel Joel S. Hetland of Air Force ROTC. About 190 MIT students hold AFROTC scholarships.

Hetland said the scholarships "are awarded based on changing predictions of what fields the Air Force will need people in four years down the line."

"This year is strong in electrical engineering, and next year... math and physics" will be strong, he said.

Half of the MIT students who hold Air Force ROTC scholarships major in the Department of Electrical Engineering and Computer Science (Course VI).

Hetland said ROTC has little effect on Course VI overcrowding: "People go into electrical engineering because of strong salaries in the outside world," he said. "but the military pays ev-

Gray: MIT will not replace federal aid to non-registrants

By Harold A. Stern

Second in a series

MIT will not replace the federal aid withheld from those students who fail to register for the draft, according to President Paul E. Gray '54.

A group of students discussed the issue with Gray when the Solomon Amendment took effect last July, said Craig Reynolds '84, a member of that group. The students asked that MIT replace the lost aid with Institute funds.

The group argued that the amendment, although it forbids the dispersing of federal Title IV funds to non-registrants, says nothing about giving other aid to students.

"We wanted a way to replace the lost money," Reynolds said. "We have talked with President Gray, and we were informed that it was against MIT's policy to replace the federal aid."

Gray told them if MIT were to give non-registrants money, "there might be the perception that other students who complied with the regulations might be short-changed," Reynolds said.

Gray said, "That is not just a perception, but a reality. We are allocating eight million dollars of general Institute funds to supplement aid for undergraduates. Any increase in demand for Institute funds amounts to an decrease in other available aid."

Those "who are obeying the law will either see their tuition rise or their average financial aid decreased, if only by a little bit," he continued.

Gray said he does not believe the establishment of the scholarship fund will necessarily help the non-registrants; he doubts the students will be able to raise a significant amount of money.

"I cannot imagine that the donations will cover the expected need. This scholarship fund will create the expectation that there

will be adequate help, when there won't be," Gray said.

"I hope that he is wrong," Reynolds responded. "We met with the American Friends Service Community, and they gave us tentative approval — their programs are successful at Brandeis and Brown, and we expect that it will work here."

Several faculty members have expressed interest in making donations to the scholarship fund, Reynolds said.

Once MIT established its policy of withholding aid from the non-registrants, said Gray, the question of whether the money originated from MIT or from an outside scholarship fund lost its relevance. "The source [of the aid] is of secondary importance, and ought not to be a consideration," he said.

William R. Dickson '56, senior vice president, said the Institute's refusal to either directly or indirectly aid the non-registrants does not imply the administration agrees with the Solomon Amendment.

"MIT's opposition has no bearing over whether or not we feel this is proper legislation — it is quite clear that we do not," said Dickson. "This whole case will be heard before the Supreme Court, and ruled on before the end of June — if stricken, the whole question becomes moot."

Gray agreed: "I regard the Solomon Amendment as a bad piece of legislation, because it makes colleges the enforcers. It couples draft enforcement with education — I am opposed to it. However, we have no choice but to obey the law."

MIT is not alone in refusing to aid the non-registrants, Gray claimed. "Only Yale University, to the best of my knowledge, has [given money to non-registrants]," Gray said.

everyone the same."

Seven of the 17 upperclassmen who hold Army ROTC scholarships are enrolled in Course VI, including five in the co-operative program VI-A, according to Lt. Colonel James P. Hassett of Army ROTC.

Army ROTC scholarships specify whether the cadet is to major in engineering, physical sciences, or social sciences, but not the specific field, said Hassett.

Scholarships have been restricted to these general areas over the past few years, because the Army wants to increase the technical expertise of its officer corps, he added.

"A couple of years ago you could get a degree in shell collecting if you wanted to," Hassett said. "Now they're aiming for 20 percent with engineering background, 20 percent from the social sciences, and 30 percent business and management types among the officers."

The Navy ROTC does not restrict majors, according to Commander Robert McClure of Navy ROTC. "There's no pressure to

change to majors the Navy might need... Our scholarship awards are not broken down by course," McClure said.

Hetland emphasized that ROTC is not a grant or aid program. The Air Force "attempts to make the best use of the taxpayers' money... We're not going to buy something we don't need," he said.

Attrition in the Air Force ROTC is about 40 percent at MIT, compared to 23 percent nationwide, Hetland said. After the end of freshman year, students are committed to remain in the program and complete four years. (Please turn to page 2)

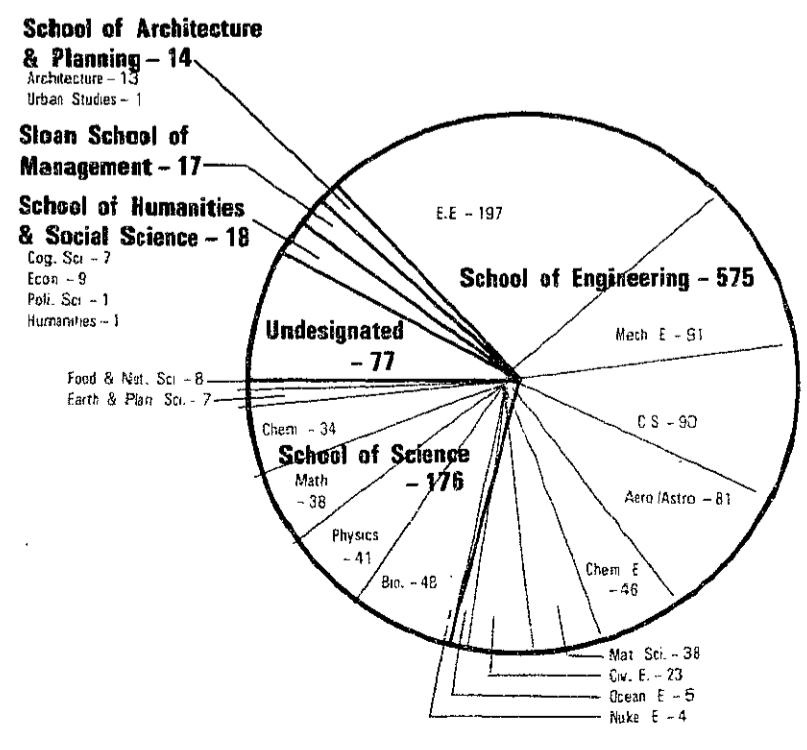
inside

MIT partied with Cheap Trick and 'Til Tuesday during Spring Weekend. Page 6,7.

Dramashop performs Harold Pinter's *The Homecoming*. Page 10.

Intended Majors of Class of '87

Total number of freshman is 1073. Number of compiled responses is 877



One third of freshmen choose EECS as major

(Continued from page 1)

be taken. Smith added, however, that the Committee of Educational Policy wants "to preserve the freedom of students to choose" majors.

Professor Joel Moses '67, head of the Department of Electrical Engineering and Computer Science, said the Course VI enrollment represents a "percentage comparable to last year."

The total students enrolling in the department is "probably down because there will be no or very few transfer students," Moses said. "The total number at this level will go up" due to undesignated upperclassmen, he added.

So far, 575 freshmen have opted to major in the School of Engineering, representing 66 percent of the forms tallied so far. Over 10 percent indicated the Department of Mechanical Engineering, while roughly 9 percent chose the Department of Aeronautics and Astronautics.

The number of students electing to major in the School of Science was 176, or 20 percent of the freshmen whose choices have been tallied so far. Of those, 43 chose to major in biology, 41 in

physics, and 38 in mathematics.

Seventeen said they will enter the Sloan School of Management. Eighteen freshman have elected to major in the School of Humanities and Social Science, with nine in the Department of

AFROTC attrition rate is 40 percent

(Continued from page 1)

of active duty after graduation, he noted.

The deadline for leaving the ROTC program was the end of sophomore year until this year, Hetland said. "We used to lose a lot of students to" VI-A, he said.

"Some companies don't want co-op students who are going to go into the military after graduation, and some students don't believe they can work in the program and still fulfill their Air Force ROTC requirement of one month every summer in the military," Hetland said.

Some Air Force ROTC students do successfully complete the VI-A program, Hetland added.

About one-third of Air Force ROTC students change majors,

Economics.

In the School of Architecture and Planning, 13 freshmen opted to major in the Department of Architecture and one in the Department of Urban Studies and Planning.

he said. "A change to math, physics, aeronautical engineering, or civil engineering would be automatic. Of course, a student can do anything he wants, but if he wants his scholarship, he has to choose a field the Air Force needs."

Majors are less important to the Army than personal qualifications, Hassett said. "We take all kinds. If I've had someone in the program for a year or two, and I see he's academically good and interested, I can change his scholarship, say, from engineering to science."

"Even social science majors like management and political science are okay as long as the scholarship is awarded in or changed to the social sciences," Hassett said.

Spring Olympiad Winners

	Men	Women
First	Sigma Alpha Epsilon 640	Alpha Phi 700
Second	Sigma Phi Epsilon 595	WILG 580
Third	Sigma Chi 585	Next House 560

Individual event winners

Event (sponsor)	Men	Women
Tank (Sigma Chi)	Theta Chi	Number 6 Club
Road Race (CSF)	SAE	Alpha Phi
Obstacle Course (Pi Lam)	Zeta Psi	Alpha Phi
Chariot Race (Zeta Psi)	SAE	
Ten-Legged Race (SPE)	PBE	Next House
Ice Cream Eating (E Theta)	SAE	Alpha Phi
All-Tech Sing (SCC)	Sig Ep	Next House
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news roundup

World

Smooth sailing in Salvadorian elections — The first free elections in 50 years for a civilian president in El Salvador were held Sunday with no internal disruptions, a marked contrast to violence-wracked preliminary-round voting in March. However, a helicopter carrying US ambassador Thomas R. Pickering and two members of Congress, who were monitoring the elections, was fired upon by leftist guerrillas, as was a helicopter carrying journalists; no injuries were reported. Exit polls conducted by a Spanish television network predicted moderate conservative Jose Napoleon Duarte the clear victor over right-winger Roberto D'Aubuisson. D'Aubuisson is reputed to head the so-called "death squads."

Pope attacked in Korea — A man armed with a toy cap pistol fired upon Pope John Paul II as he rode in a motorcade Sunday in Seoul, South Korea. The unidentified assailant fired no bullets, and was immediately subdued and sent for psychiatric testing. The Pope spoke as scheduled later in the day, urging a crowd of 300,000 to fight for workers' rights.

Nation

Mondale, Jackson split twin bill — Former Vice President Walter F. Mondale swept to victory in the Texas Democratic primary Sunday, carrying 50 percent of the vote. The Rev. Jesse L. Jackson won the Louisiana primary with 43 percent of votes cast. Sen. Gary W. Hart, who placed second in both contests, has been advised by some of his backers to withdraw from the campaign if he fails to win at least one of today's primaries in Ohio, Indiana, North Carolina and Maryland. Mondale now has approximately 1400 delegates committed to him, about twice as many as second-place Hart, and less than 600 short of guaranteeing a first-ballot nomination.

Sports

Swale takes Derby — Swale, ridden by jockey Laffit Pincay Jr., captured Saturday's Kentucky Derby at Churchill Downs in Louisville over a field of 19 other three-year-olds. His time was 2:02-2/5 on a fast track for the mile-and-a-quarter race. This is Pincay's first Derby victory after 10 previous failures. Swale, a son of 1977 Triple Crown winner Seattle Slew, left the gate at 3-1 odds and paid \$8.80, \$4.80 and \$3.40. The pre-race favorite, Althea, finished second to last. Swale's stablemate Devil's Bag, considered by many the best horse in this year's field, was scratched from the roster earlier in the week due to a minor injury.

Islanders vs. Oilers: take two — The New York Islanders defeated the Montreal Canadiens 4-1 Saturday, winning their best-of-seven semifinal series 4 games to 2. They will face the Edmonton Oilers, who swept the Minnesota North Stars in four games in their semifinal, for the National Hockey League championship for the second straight year. The Islanders, hoping to tie Montreal's record of five consecutive Stanley Cups, will resume defending their title against the Oilers Thursday in Uniondale, N.Y. The Isles swept last year's Stanley Cup final against Edmonton 4-0.

Weather

Into each one's life, a little rain . . . — Today will be mostly cloudy, with drizzle off-and-on throughout most of the day and a high of 56-60. Showers will continue throughout the evening, with a low in the upper 40's. Wednesday will be cloudy and windy with a chance of a shower, and highs of 60-64.

Drew Blakeman

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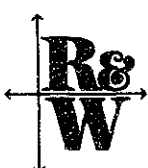
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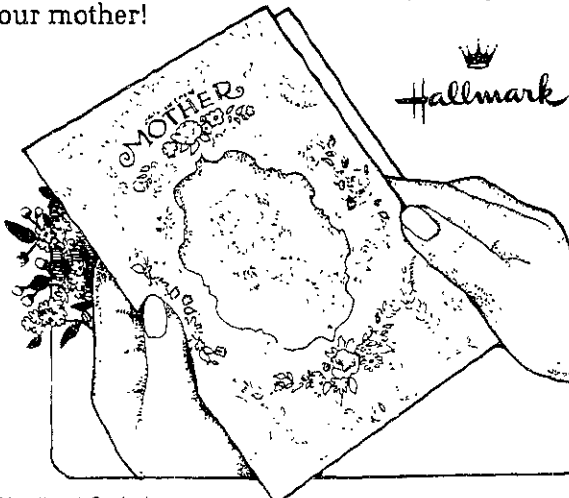
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opinion

Editorial

UA Council must justify existence

The UA Council devoted its last meeting to rubberstamping the administration's committee on alcohol abuse. Instead of treating the Council as a strong and independent undergraduate forum, they moved away from the concrete and into parliamentary abstractions by passing a motion recommending student representation on the committee, and then quibbled about whether the IFC should be represented separately. The Council's inability to resolve the question of whether the IFC was part of the UA Council further confused the issue.

With most of their appointments and budget business completed and so little time left before the end of their first term in office, Libby and Scheidler might have seized the chance to make themselves heard on more substantial issues. Administration action on Course VI overcrowding, forced commons, and Institute budget cuts will affect the average student much more severely than any attempts at an official alcohol policy, yet these three areas received no consideration by MIT's sole organ of student government. Nor, to our knowledge, has the chief officers of that government, Libby, made himself heard at faculty meetings, where he is one of only a handful of students granted speaking privileges.

Libby and Scheidler have yet to make good on even their campaign promises. These promises included "projects and . . . services that directly affect and benefit the students," "improving communication between the students, the student government and the administration," and "going out and talking to people." Yet nothing has been done about the projected Walker outdoor café and Asian language courses since the election, and the UA Council seems as dedicated to insulating itself from the students and the issues by layers of bureaucratic abstraction as the old General Assembly was.

Instead, the UA Council chose to apply itself to the cause of canonizing former Assistant Dean for Student Affairs Stephen D. Immerman. Not only did they pass a resolution commending Immerman, but they voted to present him with a commemorative plaque and establish a permanent remembrance of him in student government. It is a wonder the Council did not purchase a resolution from the Massachusetts Legislature and a chair in 10-250.

Immerman was a competent dean, and he was certainly an improvement over his predecessor, Robert Holden. But he is hardly deserving of these premature eulogies. His fulfillment of "the highest ideals of the Office of the Dean for Student Affairs," as stated in the resolution, was proof of that. In particular, Immerman was instrumental in blocking student-planned office rearrangements in the Student Center. The UA Council, it seems, is blessed with a short memory as well as a short agenda.

Several weeks before this meeting, UA President David M. Libby '85 said "I need [the Council] to convince me why we should even have another UA Council meeting." Presumably they have convinced Libby. It is now up to Libby to convince us why the UA Council should continue to meet.



Guest Column/Donald M. Davidoff

Ringling in old traditions

In spring, a young girl's fancy turns to young men, and a young man's fancy turns to baseball. In much the same way, an MIT sophomore's fancy turns to the age-old tradition of reaching deep into his or her pocket to purchase an MIT class ring, better known as a "brass rat".

Here I am, a sophomore who has not even convinced himself that he will graduate these hallowed halls of Gray, and yet I have received the distinct honor of wearing one of these sacred symbols of MIT. Whether on the hand of an unknown alumnus in a strange far-away place or on the hand of Erland van Lithe de Jeude '76 in *Stir Crazy*, this single piece of gold symbolizes the four years of struggle we all have in common. Yet, I cannot help but wonder how MIT has come to have such a standard ring, and why, of all things, does it picture a beaver? (I'm sure we've all been told it's because the beaver is nature's engineer, but is that really true?)

Fortunately, through the courtesy of Bill Hobbis, Chairman of the Class of '86 Ring Committee, and the 1915 and 1930 volumes of *Technique*, I was able to get an answer. First, to address the issue of the standard ring, *Technique 1930* tells us that C. Brigham Allen, then president of the Class of 1929 appointed a

three-membered ring committee headed by Theodore A. Riehl '30. It was their sole purpose to provide a ring which the Institute Committee would approve as the Standard Technology Ring.

After vigorous debate over whether to feature the Dome or the beaver on the front, it was noted that many schools had domes similar to ours. The beaver having proven victorious, the committee decided to place the dome on each shank. "MIT" was coupled with it on one shank, and the class numerals were placed with it on the other. Rounded corners for the face and a raised bezel to prevent excessive wear on the beaver were also suggested. The Institute Committee and the Alumni Council approved the design, and it has been used ever since.

Now, on to the more pressing matter of the beaver itself. The answer lies 15 years further back in MIT history as *Technique 1915* reports in a published letter from L. D. Gardner '98. The Technology Club in New York had often pondered as to why Tech had never come up with a mascot. It was soon decided to create one and bring "good old MIT" luck. The kangaroo was first considered because "like Tech, it goes forward in leaps and bounds, and it came from Australia" as did MIT's president

at the time, Richard Cockburn MacLaurin. Next, the elephant was considered "to represent the Tech man — strong, wise, patient, hard-working, and like every man who gets through, has a good tough hide." Unfortunately, these animals possessed a tragic flaw — they were not American.

To find the right animal, the members of the New York club consulted Mr. Hornaday's *Animals of North America*, and the beaver was instantly recognized to possess all the proper credentials. "It is not only typical of Tech, but some of its habits are much like those of President MacLaurin." To quote Mr. Hornaday, "Of all the animals of the world, the Beaver is noted for his engineering skills and habits of industry. His habits are nocturnal, he does his best work at night."

The beaver was formally presented to MIT, and on January 17, 1914, President MacLaurin officially accepted it at the annual dinner of The Technology Club of New York.

And so, as my thoughts must turn to the Unified Engineering problem set I have just managed to put off for an hour, I can at least feel secure in my knowledge of the origin of a species — the MIT class ring and its beloved beaver.

The Tech

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→ feedback

Moving service "bad news"

To the Editor:
I would like to warn your readers about the Brown and Finnegan Moving Service ("no job too small") that frequently advertises in your classified section. I hope *The Tech* policy will allow you to publish my letter.

I own a large harp that I ship to my home in Denver each summer. The major trucking companies won't pick up, so I am faced with the problem of getting my harp to the company's loading dock, about ten miles from MIT.

Two years ago, after seeing the classified ad in *The Tech*, I called Finnegan's. They agreed to pick up my harp, take it to the trucking company, and handle all the paper work to insure its delivery

to Denver. I paid them around \$40 and they took my harp away.

Two weeks later, after I arrived in Denver, my parents and I became concerned because we had heard nothing about the harp. Many long distance calls (day-time rates) followed; the trucking company had no record of ever receiving the harp, and Finnegan's was (at best) vague. Finally we learned that the harp had been sitting in Finnegan's warehouse for two weeks.

One man at the trucking company (who told my parents that Finnegan's was not a reputable firm) was particularly helpful. He personally called Finnegan's, and the people there had the gall to ask him if he could send one of his trucks to pick up the harp. Fi-

nally, after a few more days, Finnegan's delivered the harp to the trucking company. What I find especially ironic is that it only took the trucking company several days to ship the harp 2000 miles to Denver, while Finnegan's required almost three weeks to cart it ten miles.

I have since learned the best way to move the harp is to rent a van for an hour (about \$10) and take the harp myself to the loading dock of a major trucking company. Brown and Finnegan's Moving Service is bad news. With this letter, I hope to spare some agony (and money) for anyone else who is moving this spring.

Marla Mathias '84

opinion

feedback

Prohibition of worship is abridgement of rights

To the Editor:

I do not quite understand what the actual laws regarding school prayer say, but I would like to point out that prohibiting people to worship their god is an abridgement of rights. I understand that in some schools, students who desire to follow Jesus of Nazareth have been banned from

Column a "tirade"

To the Editor:

How dare you, Burt Kaliski! What on earth gives you the authority to say that my "right not to worship God is not 'inalienable' "? I really don't care if you're a born-again Christian, Roman Catholic, Jewish, or Buddhist, Kaliski, but no one tells me who or what I can and cannot worship. What started out as a column [April 24] promoting prayer in school became a religious tirade, saying, in essence, that if a country (like those in Africa and the Far East) does not worship your "true God", then it is doomed to become a "den of disease, poverty, and crime."

But first, let me address the issue of school prayer, which you did touch on lightly. You yourself said that "too many fear their children will be ostracized for not worshipping the way their classmates do," even going so far as to say that there are not enough "true followers of Jesus" to prevent such a thing from happening. I, for one, would not want my child going to school and being ostracized because he is Jewish, for example.

Then, you claim that schools teach of Zeus and Osiris, but not of "the true God". By teaching the mythologies of other cultures such as Greece and Egypt, it is hoped that our children will learn more of the world around them. Those who teach such material are not looking to convert a group of fifth-graders into worshippers of Apollo. If a child wishes to learn of your "true God," such guidance and information can be found in the

organizing as a school activity to hold prayer meetings or to speak with friends about their faith — activities which are vital to the service of the Christian god. I would like to add that the scripture referred to by Joseph J. Romm in the May 1 issue of *The Tech* refers to people who pray in the open so other people can see

church, where it belongs.

You go on to explain the separation of church and state, claiming that it benefits not the state, but the church, citing the medieval popes and the influence of power and money on their positions. Unfortunately, you show no benefits of eliminating the separation between church and state. In fact, if we are to believe you, such a "fusing" will result in religious leaders becoming unfaithful to their "Master."

You then attempt to justify your beliefs by quoting from the Declaration of Independence, which makes a reference to "our Creator," who has endowed us with inalienable rights. You automatically assume that "our Creator" is your "true God" — an assumption which I find to be, at the least, extremely presumptuous. As far as I am concerned, "our Creator" is whomever each person believes, be it Allah, a race of intergalactic beings, or someone that an individual can have faith in — and not whomever we are told.

I understand that someone of your beliefs would be upset by the materialism of today's world — the commercialization of Christmas, for example. And, if you believe that "the laws of science and of this country are subordinate to those of God," that is fine. But to attempt to unite this nation under your beliefs (which, of course, are undoubtedly shared by many others) is far beyond your — or anyone else's — prerogative.

Adam Bernard '86

how holy they are. This is not my assessment of why school prayer is wanted by Christians. Prayer is communication with God, and group prayer encourages each of the believers in knowing that other people agree with his petition to God.

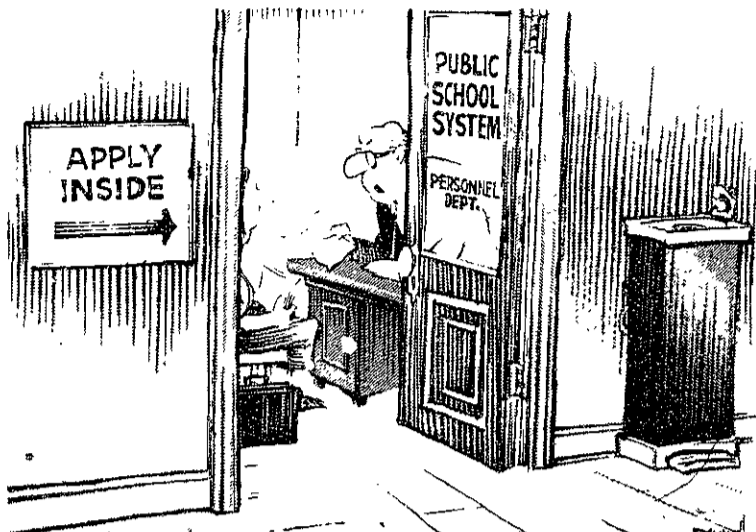
I agree that the public schools should not endorse, directly or indirectly, any religion. However, the schools should be allowed to accommodate the interests of the students. Just as there are school activities for students interested in music, athletics, the military, community service, politics, business, etc., students of any religion should be allowed to meet with others of their faith for worship and other activities.

In response to David Levy [Feedback, May 1], I have a question: If you do not believe that your belief is true, why do you believe it? Faith is being certain of things which cannot be proven. Anyone with faith in something would be lying if he did not say as Burt S. Kaliski [Column/April 24] does, "I know my belief is true." This does not mean that he is closed to the beliefs of others and certainly does not mean that the beliefs he holds today will remain with him forever. Levy's statement that "religion can be dangerous" is misleading. Anything can be dangerous if it is misused. Corruption is what is dangerous and this applies to all things people get into.

I agree with Romm that students should not be forced to recite a generic prayer in school. In fact, my understanding of prayer is that the words said are not so important as the focus of the mind and heart on God. Recitation of a prayer is not in my opinion prayer if the mind and heart of the individual are not focused on God.

I ask that someone please correct me on my understanding of the present regulations on school prayer, and I also suggest that criticisms of writers should be constructive rather than destructive.

Dennis W. Dillon '85



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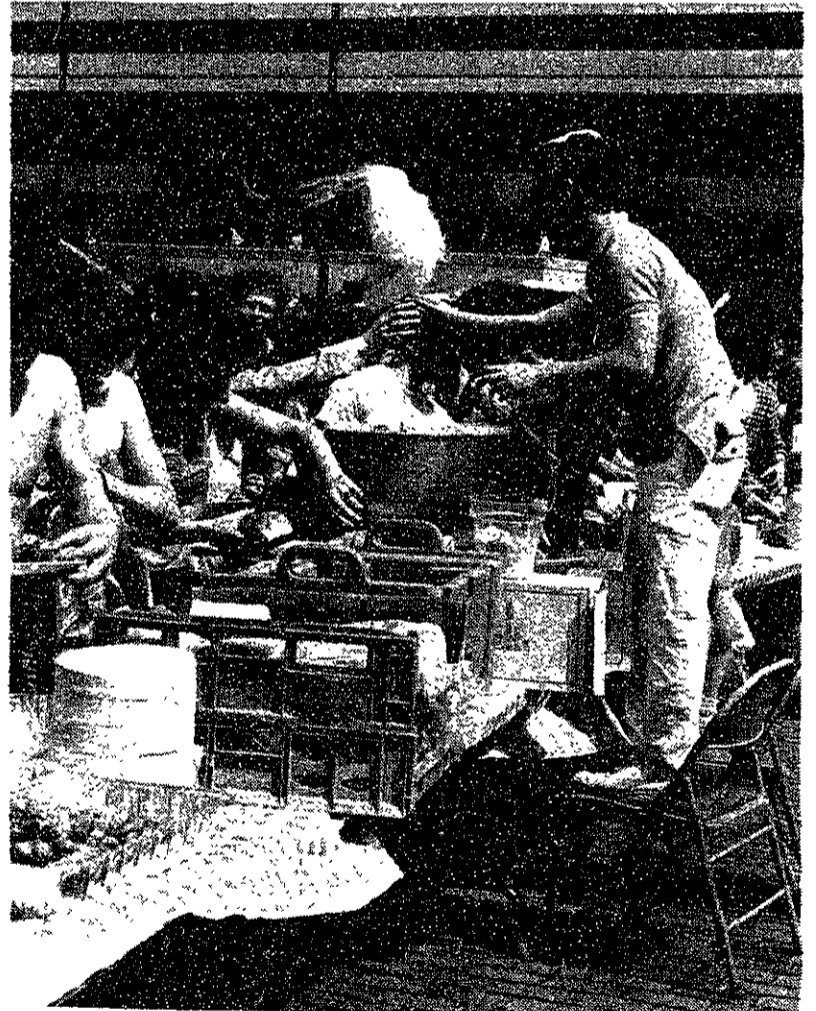
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'Til
Tuesday



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opinion

feedback Prayer should not be in school

To the Editor:

I am writing in response to Burt S. Kaliski's column "Prayer in the classroom would benefit our society" which appeared in *The Tech* on Tuesday, April 24. Kaliski complains that a proposal to allow prayer in the public schools in Framingham was rejected. Although he does not state so explicitly in his column, Kaliski also favors the school prayer amendments which were recently voted down by the Senate.

Prayer in the public schools is not illegal in Framingham or anywhere else in the country, and I have no objection to it. Any student may pray silently in the hallway on his way to class, at his desk before the teacher calls the class to order, while exams are being passed out, or at many other times. A student can also simply stop listening to the teacher for a moment and pray, just as students often stop listening for other reasons. The acceptability of such private prayer is well established in Judeo-Christian tradition and it has never been declared illegal in this country. What is illegal, and what I oppose, is organized public school prayer.

Students may also pray at home before leaving for school or in groups at a student's home or some other place of worship. Transportation could easily be arranged, and prayers could begin early enough so that they end in time for the students to arrive at school in time for class. Oddly enough, it seems that the people who spend so much effort in favor of school-run, organized prayer at the public schools are unwilling to spend effort to organize prayers for students in other, perfectly acceptable locations.

When my mother was a girl, school began every morning with a reading from the Bible. A few weeks ago I asked her about how it was organized and she could not remember. She told me that nobody paid attention and often the children were talking among themselves so that no one could hear anyway. I believe that such imposed activities served to alienate numerous people of her generation from religion.

I have many friends for whom religion was not as important a part of their upbringing as it became for them when they reached college age and beyond. Although I have no proof, I suspect that if people of our generation had been force-fed religion in a very poor environment such as the public schools, many more would have been alienated from it and far fewer would decide to make religion an important part of their lives when they get older. Thus I agree with Kaliski that religion benefits by being separated from government, but I believe

that this separation must include keeping religion out of public education.

It can certainly be argued that there is no problem in allowing public schools to be used for organized prayer outside of school hours, with the groups involved paying for any additional heating and services required. However, I think it is much more important to maintain a strict separation between religion and public education.

Kaliski also speaks against the study in high school of Zeus, Osiris and "some tribe of people on the other side of the earth." I cannot argue the validity of studying Zeus and Osiris as I have never studied them, but I do believe that it is very important to study other societies and that elementary and secondary schools are the appropriate places for such studies. The knowledge that I gained through these studies is very useful as I try to understand newspaper articles and current political issues. (I did not know much about Central America until I studied it in ninth grade, and what I learned then formed the basis from which I learned more and developed my own opinions on issues concerning that part of the world.)

The words "under God" were added to the Pledge of Allegiance at the flag after the Second World War. Where I went to school, the law stated that we were to recite the Pledge every day from kindergarten through high school. If this had any effect on the opinions of anyone I went to school with concerning God, country or religion, it was only towards making a mockery of them. After all, we also said "indivisible" while we were studying the Civil War. (In the fourth grade a teacher explained what the word meant.) The absolute statement "with liberty and justice for all" also disagreed with several of the things we studied in history class and read in the newspapers.

The Senate of the United States recently spent an enormous amount of time and effort debating the issue of organized prayers in the public schools. In the meantime, there are about 40,000 nuclear weapons in the world, and this country is making plans to build another 15,000. These thermonuclear bombs are currently built at the rate of a couple a day. Meanwhile, millions of people are starving in numerous places around the world. I could not believe in a god who would not have preferred that the government of the richest and most powerful nation on earth spend its time on these problems rather than on organized public school prayer.

Finley R. Shapiro G



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notices

Tuesday, May 8

A slide presentation, entitled "Drugs, Devils, Divinities and Doctors in the Indian Culture of the Amazon," will be offered by the renowned botanist, Dr. Richard Evans Schultes, curator of the Botanical Museum of Harvard University. Will be at 8 p.m. at the Theodore Parker Church, Centre and Corey Streets, West Roxbury. A \$5 donation will benefit the Tiffany Window Restoration Fund. Tickets may be reserved in advance by calling 327-0043.

Wednesday, May 9

"Lebanon and the Peace Process," with Morris Draper, Special Presidential Emissary to the Middle East (1982), and currently a consultant in the Middle East and to Secretary Shultz and Presidential Emissary Habib. 6 p.m., Wellesley College, 106 Central Street. Reception/program \$7, members \$5, free for Wellesley students and faculty. Call 482-1740 for more info and reservations.

"Foundations: Where Do the Dollars Go?" with Robert Allen of the Kendall Foundation, Newell Flather of Grant Management Associates, Janet Taylor of Associated Grantmakers of Massachusetts. Cambridge Forum, 3 Church Street, Harvard Square. Free.

MIT Committee on the Middle East sponsors a forum on **Academic Freedom in Israel and the Occupied Territories** featuring Salvador Luria (Institute Professor, MIT), Marisa Escribano (formerly faculty member at Bie Zeit University), and Ur Shlonsky (Israeli Peace Activist) at 7:30 p.m. in Room 9-150.

A forum, entitled "The High Cost of Military Spending: Jobs, Peace, and Justice in Massachusetts," will be held in Doric Hall at the State House from 12 p.m. to 1 p.m. Speakers include Carol Doherty (President, Mass. Teachers Assoc.), Rep. Byron Rushing, State Sen. Jack Backman, and Dr. Jonathan King (Co-chair, National Jobs with Peace Campaign). The event is open to the public and will be followed by a reception. For more information, call 451-3389.

Thursday, May 10

The eminent Professor Seymour Simches will speak on "The Role of Jean/Beranger in Ionesco's *La Soif et La Faim*" at 5:30 p.m. at the French Library in Boston. Admission is free to members; others, \$1. For further information call 266-4351.

Lobby for peace and the Nuclear Freeze by joining the Women's Congressional Action from 12 p.m. until 2 p.m., in front of the John F. Kennedy Building in Government Center, Boston. Speakers to include Representative Ed Markey, Lois Pines, and Dr. Jean Baker Miller. Free and open to the public. For more information call 479-3242.

Friday, May 11

A forum for candidates running for the U.S. Senate will be held from 7:30 to 9:30 p.m. at the St. Botolph St. Towers. Moderated by Mary Richardson (Channel 5 News) the forum will address the issues of economic justice, equality, and the provision of services in the state. Open to the public free of charge. For more information call 451-3389.

Saturday, May 12

A macrobiotic dinner and introductory lecture will be held at the Holy Trinity Church, 145 Brattle Street, Cambridge at 6:30 p.m. Cost for the dinner and lecture is \$10. Reservations are required. Call 232-7450.

A 5-kilometer **Spirit of America Road Race** sponsored by AT&T will be held at noon at the L Street Bathhouse, 1663 Columbia Road, South Boston. Entry fee is \$5, post entry fee is \$6. Open to all males and females of all ages. Applications are available at Conventures, Inc., 45 Newbury Street, Boston, or call 267-0055.

Noted psychologists Dr. Jean Chin, Director of the Douglas Thom Clinic, and Dr. Jack Ling, Professor of Psychology at Boston University, will speak in a forum entitled "The Relationship Between Chinese Men and Chinese Women". Sponsored by the MIT Chinese Student Club and

the Organization of Chinese Professionals. The forum will be at 3 p.m. in the MIT Student Center Mezzanine Lounge, 3rd floor, 84 Massachusetts Avenue, Cambridge. Refreshments. Non-members \$3, members free.

Sunday, May 13

Pianist **Mary Carol Commune** will perform at the French Library in Boston at 3:30 p.m. The program will include works of Poulenc, Debussy, and Schumann. Admission is \$3, members, students, and senior citizens, \$2. For further information call 266-4351.

Tuesday, May 15

Join the World Affairs Council of Boston for **An Evening in French Canada** featuring French food and film presentation on Quebec. Will be held in the Council Rotunda at 22 Battery March St., at 6 p.m. Admission \$6, students \$3, new members free. Call 482-1740 for more information or reservations.

Mount Auburn Hospital will offer an "Alzheimer's Workshop," presented by Daniel Asnes, M.D., director of Psychiatric Consultation Liaison Services at Mount Auburn Hospital. The program will be held in the cafeteria, 330 Mount Auburn Street, Cambridge, at 7:30 p.m. Fee: \$3. Those over 65 will be admitted free. For more information call 492-3500, ext. 1766.

Wednesday, May 16

Paul E. Gray '54, President of MIT, will give a Lowell Lecture on "Science and a Liberal Education" at the Cambridge Forum, 3 Church Street, Harvard Square at 8 p.m. Free.

John Scallon, U.S. Ambassador-Designate to Poland, will examine Poland fifteen months after the official suspension of martial law — **Has Solidarity been crushed?** Sponsored by the World Affairs Council of Boston in the Council Rotunda at 22 Battery March St., at 6 p.m. Reception/

program \$6, members \$3, students \$2. Call 482-1740 for more info or reservations.

Mount Auburn Hospital will offer a program on "TMJ (Temporomandibular Joint Syndrome)" presented by Walter Guralnick, D.M.D., and David Keith, D.M.D., Harvard School of Dental Medicine, Mass. General Hospital. The program will be held in the cafeteria, 330 Mount Auburn Street, Cambridge, at 7:30 p.m. Fee: \$3. Please call 492-3500, extension 1766, for more information.

The MIT Dramashop will hold its final meeting at 7:30 p.m. in Kresge Auditorium, Rehearsal Room A. There will be an election of next year's officers, slides from this year's productions and plans for next year. Refreshments. If there are any questions, call Jeanette I. Mitrano, 3-2877,

Monday, May 21

China and the U.S.: Five Years After Normalization, with Patrick G. Maddox, Associate Director, John K. Fairbank Center for Asian Research, Harvard University. Sponsored by the World Affairs Council in the Council Rotunda, 22 Battery March St., at 5:30 p.m. Wine/Cheese Reception/Program \$6, members \$3, students \$2. Call 482-1740 for more information or reservations.

A lecture-discussion entitled "The Ex-Spouse Relationship: How to Reduce Conflict and Strengthen the Remarriage" will be at 8 p.m. at the Institute for Remarriage and Stepfamilies, 259 Walnut St., Newtonville. Questions and answers, and discussion will follow. Free. For more information call 964-6933.

Announcements

International Student ID cards (ISIC) are now available in the office of Career Services, Room 12-170. The ISIC can be an invaluable asset to the student who will be studying or travelling abroad. Foreign students holding F-1 visas are also eligible for the

ISIC. For more information contact: Marianne Ciarlo, Foreign Studies Coordinator, Office of Career Services and Preprofessional Advising, Room 12-170, ext. 3-4735.

All sophomores are expected to have completed a proposal form for a humanities, arts, and social sciences concentration before the end of this semester. Visit the concentration field advisor for the field of your choice. Further information and names of field advisors available in the Humanities Undergraduate Office, 14N-409, 253-4441.

The Undergraduate Academic Support Office is making available to all departments, offices, living groups, and activities, **copies of the complete updated list of freshmen (Class of 1988)**. The lists are available at a cost of \$4.25 in alphabetic or zip order at a cost of \$6. Orders should be placed in the UASO, 7-104, before May 16, 5 p.m.

Registration Material for the first term 1984-85 will be available in Building 10 lobby **Monday, May 7, and Tuesday, May 8**.

The **1984 Writing Prizes** will be announced at a noontime lunch in Building 14E-304. All entrants are encouraged to come and celebrate with the winners.

Listings

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

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This Homecoming is all in the family

The Homecoming, by Harold Pinter, presented by the MIT Dramashop, directed by Bill Bryant; playing at Kresge Little Theatre this Thursday, Friday and Saturday, May 10, 11 and 12 at 8 p.m.; admission \$4.50/\$3.50 with MIT ID.

The setting: A house in North London. Max, a 70-year-old butcher, lives with his two youngest sons — Lenny, a pimp, and Joey, a would-be boxer — and Max's younger brother Sam, a chauffeur.

Enter: Teddy, Max's oldest son, who left for America six years earlier. Teddy shows up for a surprise visit, with wife and Ph.D. in hand.

These are the circumstances surrounding Harold Pinter's *The Homecoming*, the MIT Dramashop's latest production. Dramashop's decision to stage this play demonstrates quite a bit of ambition on their part. The colloquial dialogue, the age of its older characters, and the bizarre second act have defeated more than a few excellent American theater groups. It demands a lot of thought and work from both actors and directors.

Happily, Dramashop's production of *The Homecoming* is a strong one. The cast is well balanced and has an excellent grasp of Pinter's slow, tense style.

Joel Gluck '86 leads the cast with his portrayal of Max, the acidic and cynical patriarch trying to hold on to his position as head of the family. Gluck achieves the very difficult task of making Max vulnerable without making him seem like a wimp. Gluck displays a vocal and emotional maturity which is especially pleasing to see from a sophomore.

When, in the first few minutes Max remarks, "I'm getting old, my word of honor," one can feel remorse mixed with a slight desire for sympathy. When he argues with Lenny about horses, he desperately tries to show his knowledge and experience. He is like an old lion who keeps roaring to prove he is in control.

If Max is the old lion, then Lenny is the young cub who keeps making playful threats until he is ready to challenge. Lenny is played by James MacStravic '84, who fills every one of his lines with enough

sarcasm to make Don Rickles flinch. There are times when this is a problem, especially in areas where Lenny probably should have been a bit more open, but overall it works very well.

Joey, the youngest son, is portrayed by David Altshuler '86. Altshuler has a hard job in trying to round out Joey, whom Pinter seems to have neglected a bit. Mostly, all the audience sees is Joey whining or talking about boxing. The performance is a bit weak, but that may be because the role is weak. Altshuler, however, does a very good job of reaching out to Teddy, the returning prodigal, when nobody else will.

Sam (Charles Grimes '86) is a weak man who takes pride in the fact that he doesn't disturb the rich patrons who ride in his limousine. "I don't press myself on people, you see," he says. Sam freely allows Max to tease him and push him around. Grimes carries the weakness well, although he sometimes seems to forget how old he is supposed to be.

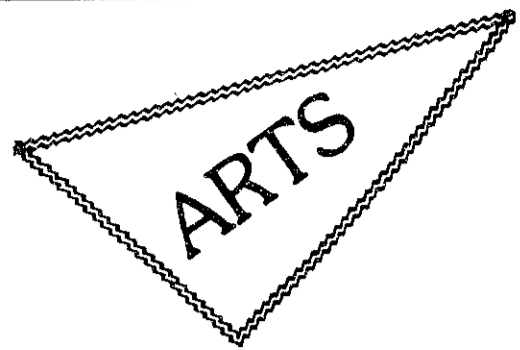
Teddy (Kevin Cunningham '84) comes home to realize that he cannot love his family anymore. Teddy appears to feel that he is better than they are because of his education. Cunningham is a good choice for the role, and his charm sets him apart from the rest of the family during most of the play.

Susan Wiegand '84 plays Ruth, Teddy's beautiful wife, like an ice cube. This works very well except for a few scenes — notably one in which she flirts with Lenny, when she probably should have pretended to be more friendly to him until she had him on a string. However, this was not a major weakness.

The most noticeable problem with the show is the difficulty with accents. Max's and Lenny's are fine, and Teddy and Ruth do not need one; but Sam's is awful and Joey's is erratic at best. Possibly, Bryant should have let the actors go without them, rather than distracting the audience.

A strong production staff backed up the actors. The set, designed by William Fregosi, is a spare living room with a staircase leading upstairs; it follows Pinter's description almost to the letter. The lighting by Marc Dinardo '84 is quite good, especially his use of light by the window. Margaret Hall's costumes are fine, although Sam's uniform looks a little large.

What really made the show work, though, was timing. Pinter wrote more than two hundred pauses into the script.



The cast and director have to be very careful not to make these perfunctory, but to find a dramatic reason for each and to vary the length of them. This was skillfully performed, resulting in many tense moments that gave the audience time to think about the action, as well as a reason to do so.

William H. Kasper



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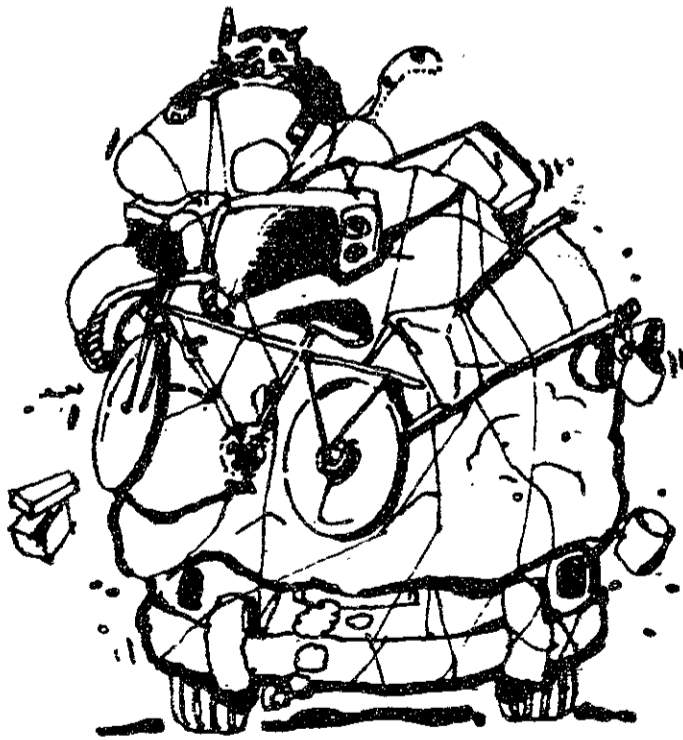
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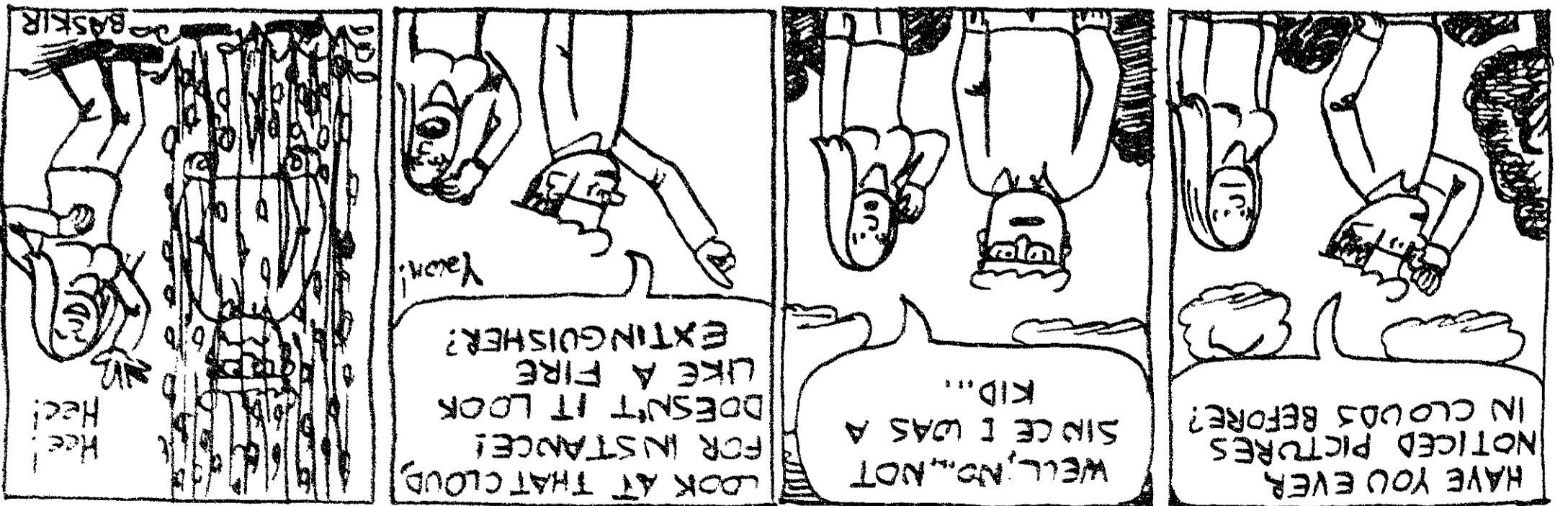
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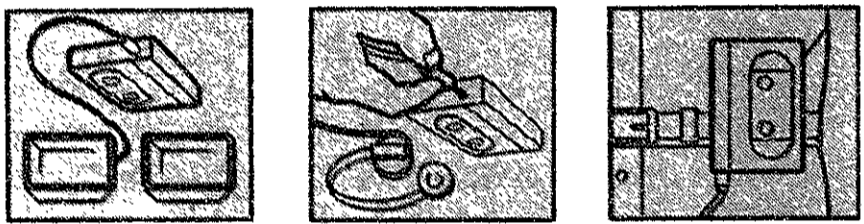


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sports

Track loses championship heartbreaker 89-88

By Christopher Y. Kim

LEWISTON, MAINE — The MIT men's outdoor track team suffered another heartbreaking loss, 89-88 to Brandeis University at the New England Division III Outdoor Track Championships last Saturday at Bowdoin College. The Engineers finished second overall out of 23 teams.

As with the indoor championships, when MIT lost to the Brandeis Judges by two points, the meet was decided in the final relay. "Brandeis just happened to get most of the lucky breaks this time," head track coach Gordon Kelly said. MIT finished the season with a perfect 13-0 record in dual meets.

The loss ended the Engineers'

three-year reign over the outdoor championships and allowed Brandeis to capture the New England Division III "triple-crown" titles in cross-country (in which they are the national Division III champions), indoor, and outdoor track.

On Thursday and Friday, Ross Dreyer '86 and Ed Martin '85 turned in steady performances in the grueling decathlon with fourth and fifth place finishes of 5011 and 4546 points.

The remaining events were held Saturday. The most significant factor in MIT's loss was the low scoring from the field team, which had anticipated a poor performance against tough competition.

Pat Parris '85 and Greg Proco-

pio '85, both of whom have already qualified for the National Division III Championships, were fine performers in the hammer throw as they captured second and fifth places with throws of 178' 7" and 161' 11". Parris also took third place in the discus throw with 145' 1", edging the throw of the sixth-place finisher by only eight inches. The Engineers were completely shut out in the other seven field events.

The Engineers fared much better in the running events as they raced nip-and-tuck with the Judges. Bill Bruno '85 had an extraordinary race in a tough 10,000-meter run as he led the pack most of the way only to be outkicked in the final mile. Bruno finished second with 31:25.87. The 400-meter relay team of Ed Arenberg '85, John DeRubeis G, David Richards '86 and John Taylor '84 also turned in a good effort, finishing second with 43.49 seconds.

The sprinters also scored some crucial points for the Engineers. Co-captain Joe Presing '84 took second place in the 110-meter high hurdles with 15.07. Presing

lost to WPI's Dan Pond, who had set a meet record of 14.88 seconds. Arenberg continued to have a good day, capturing fifth places in both the 100-meter and 200-meter dashes in 11.28 (a personal record) and 23.24 seconds respectively. DeRubeis followed in sixth place in the 200-meter dash with 25.80 seconds.

Gordon Holterman '87, co-recipient of MIT's Freshman Athlete of the Year award, turned in some tough clutch finishes in the 1500-meter and 800-meter runs. Holterman stayed with the leader for most of the 1500-meter race but faltered in the end to finish third with a strong 3:58.85. He returned 45 minutes later to take fourth in a very tight 800-meter run with 1:56.40.

MIT's hope of victory was unexpectedly revived by the Judges' poor showing in the 800-meter run coupled with MIT's powerful finish in the 400-meter intermediate hurdles. Co-captain Taylor snared the Engineers' individual first place finish in the hurdles with 54.71 seconds, closely followed by Ron Smith '84 in third with 55.32 seconds and Presing in

sixth with 57.13.

This, coupled with Brandeis' 12-point performance in the 5000-meter run (first and fifth), put the Engineers within easy striking distance as they trailed by only seven points.

The stage was set for the final showdown in the mile relay, with MIT the favorite to win. All MIT needed was to finish four places ahead of Brandeis, and the outdoor title would once again belong to the Engineers. MIT's relay team of Smith, Andrew Peddie '86, Dan Lin '86 and Taylor won in 3:24.21. This meant Brandeis had to finish fifth or lower in order for MIT to win. Unfortunately, the Judges scraped up a fourth place finish to win the team title by one point.

Although the meet concluded the season for most of the team, some of the top individual performers and relays will compete next weekend at the All New England Championships at Dartmouth and after the end of the term at the National Division III Championships at Northfield, Minnesota.



Tech photo by P. Paul Hsu

A softball player slides into home to score against Wheaton College during their NIAC championship game last Saturday. Final score: MIT 10, Wheaton 1.

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