

in the news

INSIDE

Recent price increases on newly released record albums foreshadow an across-the-board increase on all records, popular and classical. Warner Brothers also announced an increase in its dealer costs which will drive retail prices even higher in the coming months.

p8

The Indoor Track team ran away from Lowell and Tufts Saturday. The team's record now stands at 6-0 as it prepares to face this season's toughest challenge, the Bowdoin Polar Bears, this weekend.

p12

OUTSIDE

Pasquale E. Melargno has been named as MIT's varsity pistol coach, rangemaster, and instructor of physical education, the Athletic Department announced yesterday. Melargno replaces former coach Tom McLennan, who died unexpectedly over the summer.

Registration for third quarter physical education classes will be held in duPont Gymnasium on Thursday, Feb. 3, from 8:45am to 12:30pm.

Boston cab drivers voted yesterday to strike only as a "last resort" in protest of the resumption of Regal Limousine Service between Logan Airport and the Hyatt Regency Cambridge Hotel. A drivers' spokesman explained that all other methods of resolving the dispute would be tried before launching a boycott similar to the several-day strike in September, which was also based on objections to Regal's proposed operation.

Yale University announced Monday that their tuition for the next academic year will be \$4,750, an increase of \$350. Brown University's tuition will be \$4,650, a \$400 increase. Yale also announced that next year's room and board fees will increase \$175 to \$2,200.

ERRATA

In the Jan., 14 issue of *The Tech*, the Institute Committee on the Humanities was incorrectly quoted as asserting that "The cultural context in which a student exercises his skills should be a significant feature of any Humanities subject in writing." The quote should have read: "...any distribution subject in writing." *The Tech* regrets the error.

City moves toward lifting of DNA ban

By Mark James

The Cambridge City Council moved a step closer Monday to permitting recombinant DNA research as it voted 5-to-4 to give preliminary approval to an ordinance setting safety standards.

The ordinance, which would permit research under the guidelines proposed by the Cambridge Laboratory Experimentation Review Board, must receive another majority vote of the Council before becoming law.

A public hearing on the ordinance was held last Friday. Councilor David Clem, sponsor of the ordinance, has scheduled a second hearing for Feb. 7. This hearing will be followed by a Council meeting at which the final vote could be taken.

Clem pointed out that this schedule would allow the Council to reach a decision on recombinant research before its moratorium on such work expired, so that an extension of the ban would not be necessary.

Opponents of the research at Friday's hearing questioned

whether the possibly dangerous research should be conducted in a highly-populated area such as Cambridge.

Clem's plans for the ordinance nearly fell through three times on Monday. A motion to suspend the rules in order to bring the measure to a vote failed early in the evening, but a second attempt was successful.

The ordinance itself would have failed to receive the necessary five votes had not Councilor Thomas W. Danehy changed his vote after the other Councilors had voted.

Mayor Alfred Vellucci, who is sponsoring an ordinance banning all P2, P3, and P4 research, called for reconsideration of the vote at the end of Monday's session, but withdrew the request on Tuesday.

Vellucci's action would have delayed action on the ordinance for at least a week, making it impossible to complete the law-making process before the expiration of the moratorium.

Clem said that the Council was divided into three factions: those who feel that no regulation is

News analysis

Transfer of academic records unchecked

By David B. Koretz

The Institute is apparently having difficulty following federal guidelines on the dissemination of private academic information, mainly because of the large number of committees and agencies involved.

Academic records, according to Registrar Warren Wells, are sent to faculty counselors, the Freshman Advisory Council, the Office of the Dean for Student Affairs, and the Committee on Academic Performance (CAP). Graduate students' records are sent to the Committee on

Graduate School Policy, the graduate counterpart of the CAP.

Wells noted that the CAP is the "main user" of the lists of grades sent out after each term, employing them in its consideration of students' academic status. In addition, the transfer of educational records to faculty residents and even graduate residents in dormitories "is handled by the Dean's Office," Wells said.

"Grades are provided to a number of people" within the Dean's Office, Associate Dean for Student Affairs Kenneth Brown-



Cambridge City Councilor David Clem speaks at the Council meeting held Monday night at which his ordinance permitting and regulating recombinant DNA research was given preliminary approval.

necessary, those who support Clem's ordinance, and those who feel that the research should be completely prohibited.

He said that he understood that Vellucci would vote for Clem's ordinance if the Mayor fails. Vellucci could not be reached for

comment.

MIT and Harvard have been asked to notify the Council in writing of each institution's ability to follow the CLERB guidelines. Special Assistant to the Chairman of the Corporation Walter Milne said that MIT had not prepared this response yet.

Hillel team wins first MIT College Bowl

By Peter Reilly

Hillel emerged the victors from the first MIT College Bowl playoffs, staged last Thursday evening, January 20, before an enthusiastic audience in Kresge Auditorium. The Master of Ceremonies for this event was

American Cancer Society Professor of Microbiology in the MIT Department of Biology.

A total of 58 teams took an elimination examination on January 13, and the four highest scoring teams were scheduled to go to the playoffs. Competition

was limited to MIT students, however, and two of the top teams, Children of Dawn and Team Number One, were disqualified for bringing in outsiders. With the test results in, Hillel, Mudshark, Neoclassics Plus One, and Random were pit-

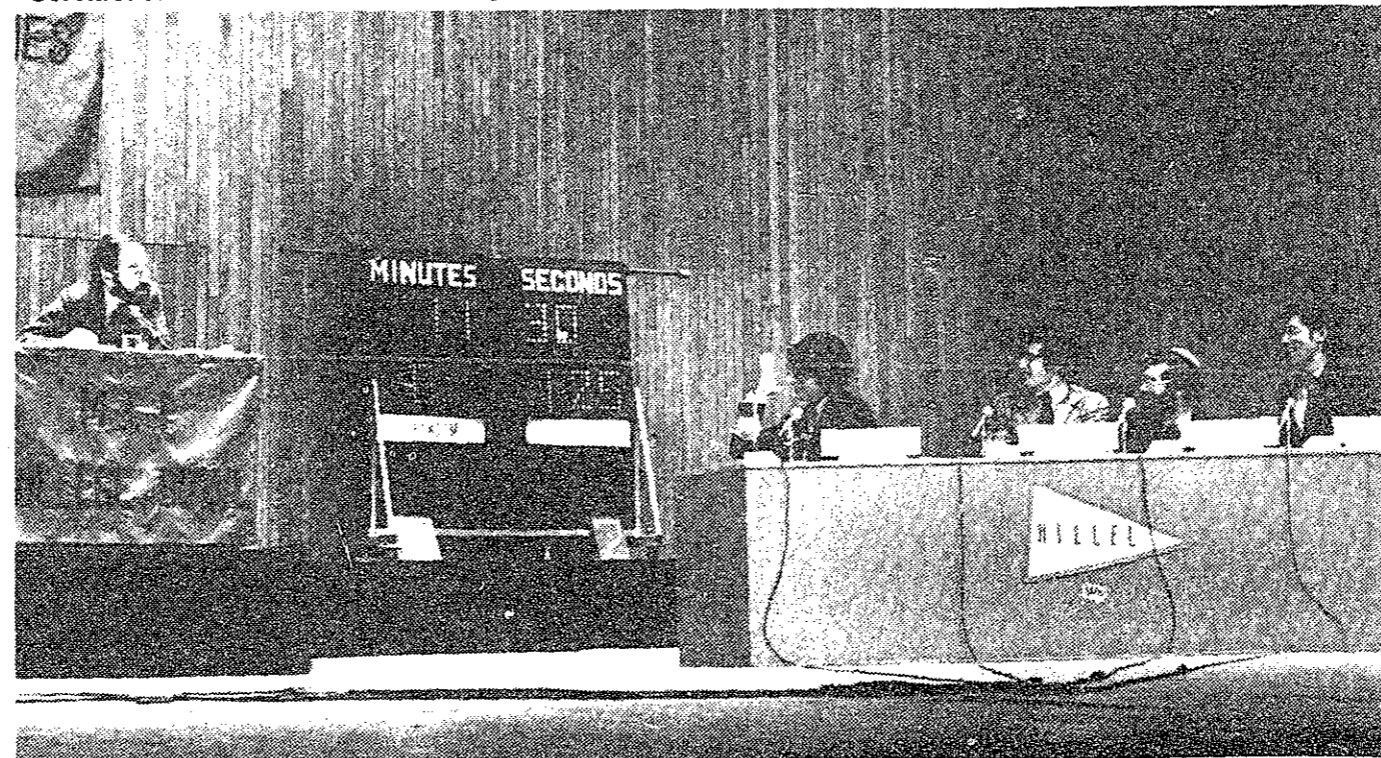
ted against one another in the playoffs.

The actual competition consisted of two preliminary rounds and a final playoff between the two winners. Standard College Bowl rules were used, and both teams were given the opportunity to answer a ten point toss-up question. The team with the first correct answer was given a bonus question worth anywhere from fifteen to thirty points.

In round one, Hillel got off to an early lead over Neoclassics, a team made up solely of graduate students. Regaining its composure, Neoclassics bounced back to gain a lead of 140-130 over Hillel. With the clock running dangerously close to the end, Hillel answered a 10 point toss-up to tie the score, and with only five seconds remaining answered a five point bonus question to win the first round 145-140.

In round two, Random, which was comprised of freshmen and sophomores, faced the Mudsharks. Behind from the start, Random rallied behind its captain, Brian Clouse '80, to defeat the Mudsharks 215-140.

(Please turn to page 2)



American Cancer Society Professor of Microbiology David Baltimore questions the Hillel team as they take a substantial lead over Random in the finals of the MIT College Bowl last Thursday

Confidential records: haphazard handling

(Continued from page 1)

clude such practices.

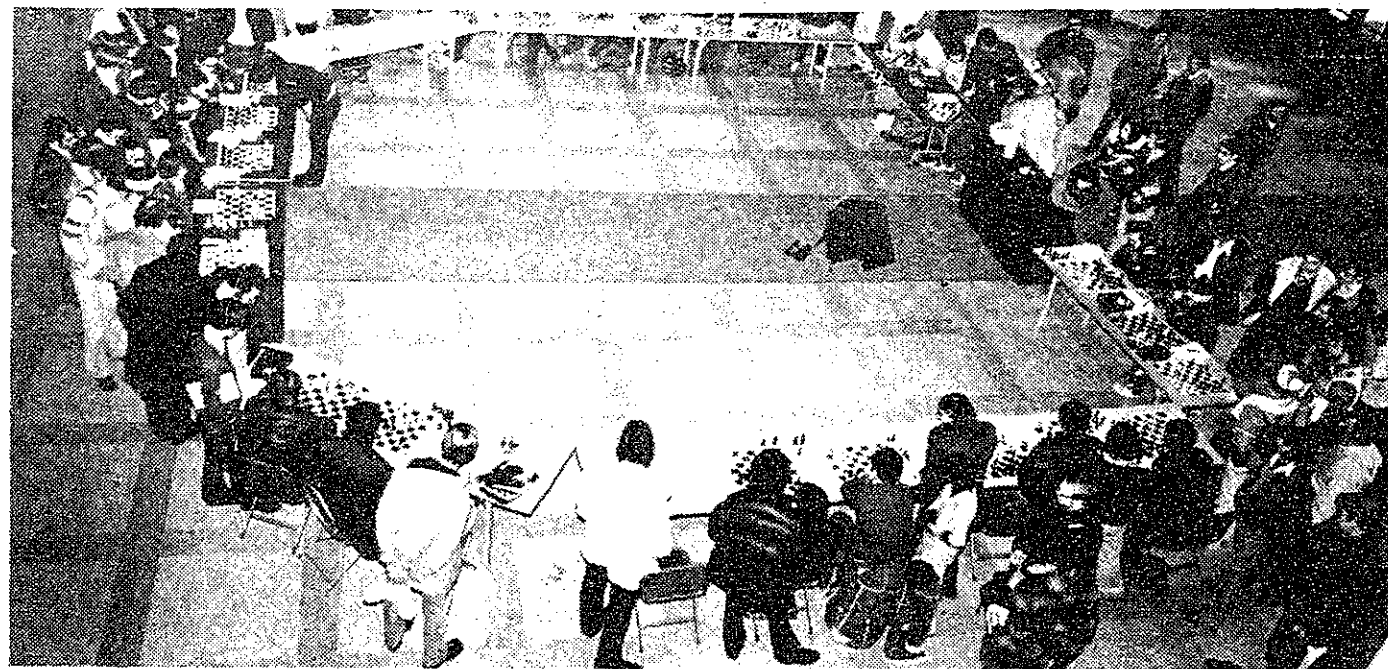
Students' academic records are sent to their departments, and, in the case of seniors, to the graduate admissions committee of their department. A student has no control over the material which the graduate admissions committee receives, except the right to view the contents and to submit a written request that some of the material be removed. Apparently, there is no way for this process to be accomplished before the committee reviews the material.

In addition, this practice would seem to render useless the concept of "freshman fail." MIT freshmen are told that the "fail"

of their pass/fail grades is "internal," and that courses failed during the freshman year will not appear on transcripts. It appears that the complete academic record of any undergraduate applying to graduate school at MIT is open for inspection by his own department's admissions committee.

However, the Registrar's Office will send transcripts to another educational institution or to a potential employer only if it receives a written request from a student.

Wells explained that requests for verification of a student's attendance at MIT or of degrees granted are routine and complied with.



Mark James

Ken Rogoff G faced 31 chess opponents Tuesday and defeated all but six of them.

Chess king rooks 25 pawns

By Hillary Lust

Imagine playing 31 simultaneous chess games in four and a half hours and not losing a single game! Ken Rogoff G, one of the top ten players in the United States, performed this amazing feat in Lobby 7 on Tuesday afternoon — winning 25 games and drawing six.

"The idea of a simultaneous exhibition of this sort is to give others a chance to play a top master. My personal goal was to play as fast and as well as I could," said Rogoff.

"I was disappointed with my speed," Rogoff commented. He is accustomed to playing the same number of games in only three hours, but he added "I was very pleased with how the exhibition was organized and surprised at how much interest was expressed by passers-by."

Rogoff is a senior master of chess, the highest rating given by the US Chess Federation. "There are about 20 senior masters in the country," he noted.

Although he is only 23 years old, Rogoff has been playing chess seriously for ten years. "I was rated a US master at 15 and have been a senior master since I was 17," he told *The Tech*.

He is also an international master and has completed half of his requirements for the ranking of international grand master.

Rogoff played in the Interzonal Tournament in Biel, Switzerland last July and August. Only two people from the US are chosen to play in this tournament, which is held only once every three years.

Virtually everyone there was a professional chess player except Rogoff. "I took three months off

to prepare for the tournament," he said.

To prepare for the tournament, he studied new opening moves, trying to anticipate what his opponents would do. He also worked with a chess player from California and played in tournaments around the country.

His score in Switzerland was about nine and a half. He placed about fourteenth out of 20 players. The winner had twelve and a half points.

Rogoff, who is from Rochester, N.Y., and attended Yale as an undergraduate, is currently a second year graduate student in economics.

Hillel trounces Random to win first College Bowl

(Continued from page 1)

The questions supplied by the College Bowl Co., Inc. ranged from extremely difficult to slightly humorous — when asked for a two word colloquialism for the kind of intelligence the ancient Trojans lacked, the captain of the Random team had to answer "horse-sense."

The final round pitted the Hillel team, consisting of captain Bob Schloss '78, Ernie Davis '78, Jeremy Nussbaum '77, and Michael Stiefel G, against the Random team, with captain Bob Clouse '80, Richard Leitermann '79, Chris Unger '80, and Wes Robbins '79. It seemed as if more applause was awarded the pretty young woman who handed Baltimore the question packets than to either of the competing

teams as they walked on stage for the final playoff round.

All four teams received prizes donated from various sources. Some of the awards included four cases of beer, four \$15 dollar gift certificates for the Coop, and \$200 worth of computer time. Crystal balls were awarded as trophies to each member of the Hillel team. As David Baltimore put it, "If this catches on, it should be an all year activity."

The final round was extremely one-sided — Hillel defeated Random by a score of 270-75. A sticky situation arose, however, when the captain of the Hillel team was supposed to touch the part of his body where certain bones were located. The coccyx drew a long applause from the audience on this question.

Police Blotter

(The Police Blotter is a report written by the Campus Patrol on crimes, incidents, and actions on the MIT campus each week.)

Cash Boxes Stolen

Two cash boxes, together containing around \$100, were reported stolen from a Main Complex library area when they were apparently left unsecured overnight last week.

Camera Vanishes

A student stored camera equipment in a locked room on an upper floor of a West Campus dorm early this month; upon his return a week later he found the equipment to be missing. Investigation revealed no sign of forced entry into the area.

First Car Stolen in '77

After a lull of three full weeks, the first report of a car stolen in the MIT vicinity in 1977 was received by Officers from the owner of a '63 Ford parked on Memorial Drive near the Hayden Library last Friday evening.

Suspect Charged

A juvenile was charged with Attempted Larceny of a Motor Vehicle and Malicious Destruction of Private Property after being apprehended by MIT officers

in the Tech Square area. Last Sunday spotted in the Tang parking lot by patrolling officers, he was chased on foot to the area just east of Central Square where he disappeared on a side street. The chase resumed when he was sighted a short time later in the Tech Square area where an Officer apprehended him.

Microphone Recovered

An Electro-Voice microphone, valued at around \$300 was stolen from a Kresge Auditorium podium Monday evening. It was

recovered a short time later after being "hidden" for possible later pick-up.

Knapsack Stolen, Found

A knapsack was stolen from its unsecured resting place in a Main Complex area Thursday morning while its owner transacted business elsewhere. Recovered by an Officer only fifteen minutes after details of the larceny were broadcast, it was found to be intact except for items valued together at around \$8. The recovered property has been returned to the owner.

In its February issue, *National Lampoon* sets out to answer a question that has been on everyone's mind since November 22, 1963...

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Examining the tuition hike

By William Lasser

It will cost the average American family of four approximately \$450 more to send a student to MIT next year than it did this year.

The estimated \$550 increase in total costs at the Institute — based on a \$350 tuition hike, and projected increases in room, board and medical expenses — will be met by \$100 more in direct scholarship aid, and an additional \$300 in loans and term-time earnings, and \$150 more in direct support from the student's family.

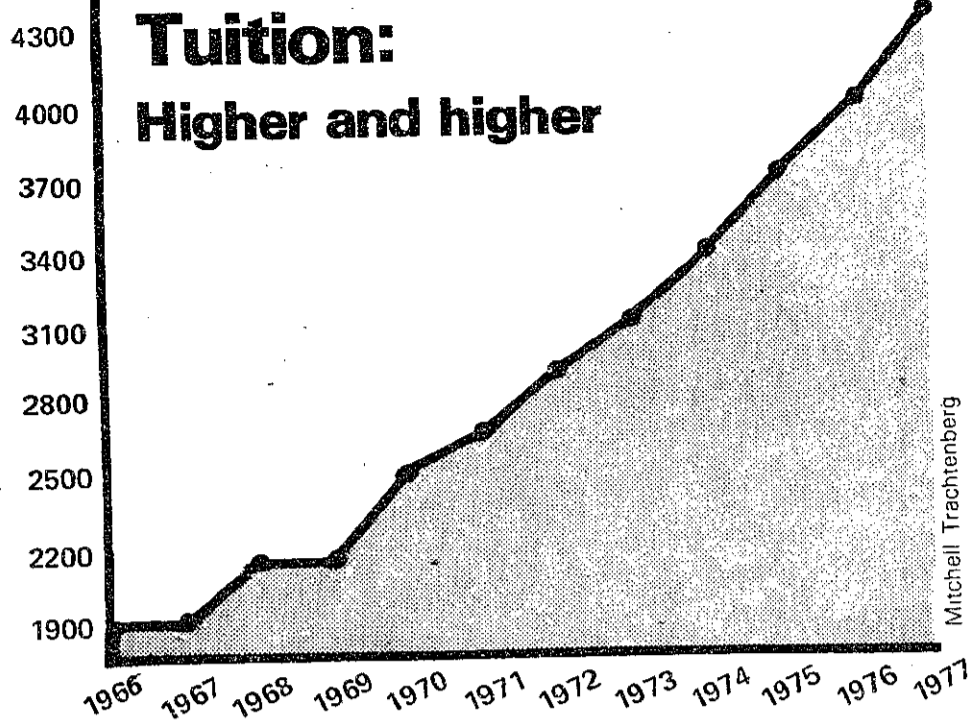
These figures apply for a typical family of four, whose annual earnings are equal to the United States Census Bureau average of \$17,513. The family of the average MIT student has a significantly higher income.

The total cost of attending MIT this year is estimated at \$7410; the Student Financial Aid Office has predicted that next year that amount will rise to \$7960. This year, this hypothetical family is expected to pay \$3050, while next year the "parents' contribution" is expected to be in the neighborhood of \$3200.

These increases will have varying effects on different MIT undergraduates, depending on whether or not a student is receiving financial aid. For students not on aid, the net additional cost is simply the projected \$550 fee increase. For those on aid — 49 per cent of undergraduates — perhaps the most important figure to watch is the increase in the equity level.

The equity level, which represents the amount of aid given in the form of loans and employment, is currently \$2300. The level for next year will be at least \$2500, and could be as high as \$2700.

Tuition: Higher and higher



Mitchell Trachtenberg

"We hope that the equity level will be no more than \$2600," said Associate Director of Financial Aid Samuel Jones, who performed the above calculations for *The Tech*, "and we would love to see it at \$2500."

The higher the equity level, the more money students receive in the form of loans and wages, and the less they receive in direct scholarship. The exact figure for the equity level will be set in the near future, Jones noted.

Perhaps the other key figure to watch is the projected total cost of academic year '77-'78. The prediction of \$7960 given above could be low, by as much as \$100.

Jones asserted that "the aid system continues to be valid," despite next year's increases, adding that "students who are marginal to the aid system can expect the parameters to change favorably." Thus, a student may be eligible for aid next year even if he was not this year.

"The struggle to keep the aid program at MIT from deteriorating continues," said Jones, but he expressed the hope that through the Leadership Campaign, and through increased yield from state and local scholarship programs, the system can be kept viable. Currently, MIT undergraduates receive a total of over nine million dollars in financial aid, of which over 4.7 million is in the form of direct grants. The average student on aid receives \$4300 a year.

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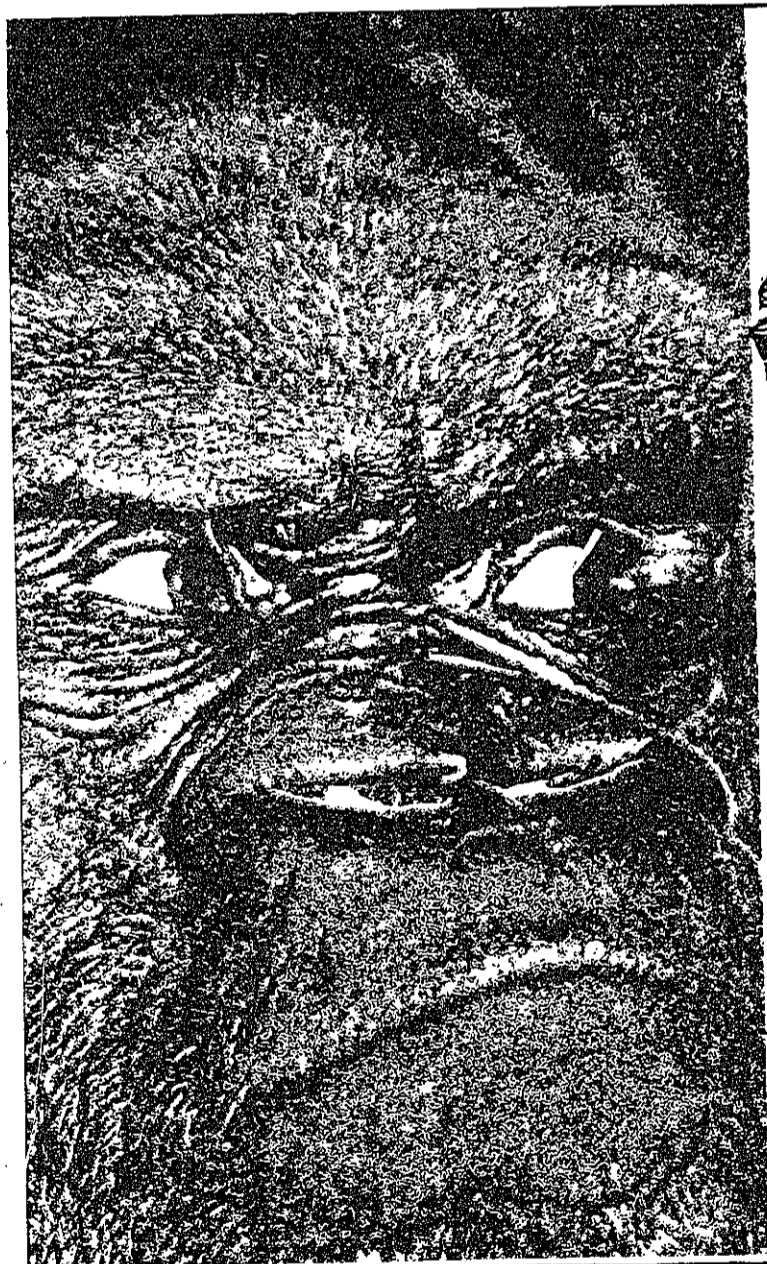
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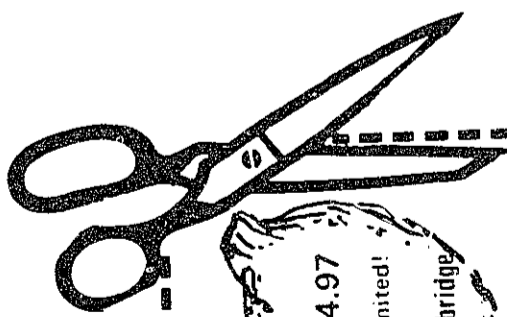
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Carter draft pardon a necessary action

By Glenn Brownstein

For me, the climax came the day of the Kent State Massacre in 1970, when my ninth grade history teacher, Mr. Goldborer, walked slowly into class, mute and expressionless, whispered almost inaudibly, "I can't teach today . . . not after what happened," and then sat down at his desk, head in hands, until one of my classmates broke the prolonged silence by asking, "Can we talk about it?" nearly *ten minutes* later.

I also recall the student demonstrations in Chicago at the 1968 Democratic convention, and the riots which followed. I remember Eli Wallach addressing several hundred of us high school students at a rally during the October 15 moratorium. I remember canvassing my neighborhood with anti-war petitions. I also recall seriously considering going to Canada if I was drafted, a very real thought for a 17-year-old.

Now that President Carter has taken the decisive and necessary first step of pardoning draft evaders, it's constructive before we file Vietnam

away to remember exactly what the war meant to each of us. It's important to think not only about what you might have done if you had been drafted, but also to think about what actually happened: to those who resisted in one form or another, to those who served and returned, to those who served and died or were wounded in action, and to the relatives of all of the affected young men.

And young they were — usually not older than 19 or 20, but called on to fight a war that some politicians and military commanders tried to make us think was constructive. Vietnam, as it stands today, is Communist, taken over by the Ho Chi Minh forces within months of the American pullout. And over 50,000 young Americans are dead, many thousands more crippled for life, their youth as surely robbed from them as if they had not returned from war at all.

Through the late sixties and early seventies, the college campuses were the focus of the active protest of the war. MIT was hardly untouched. In November 1968, AWOL soldier Mike O'Conner was given "sanctuary" in the Student Center for one week to publicize the resistance movement.

Although the expected "bust" never came, the campus was substantially affected — upward of 1000 people participated in the sanctuary. *The Tech* reported at that time.

Jerome Wiesner, then Dean of the School of Science, was quoted as saying, "If I were a bit younger, I'd be down there myself . . . I sympathize with your position on the war, and that is what this is all about."

Central and Harvard Squares were wracked by riots in 1970, and during the near-nationwide student strike, in the spring of 1972, MIT made all classes (and finals) optional to accommodate the protesters who numbered at least one-third of the student body.

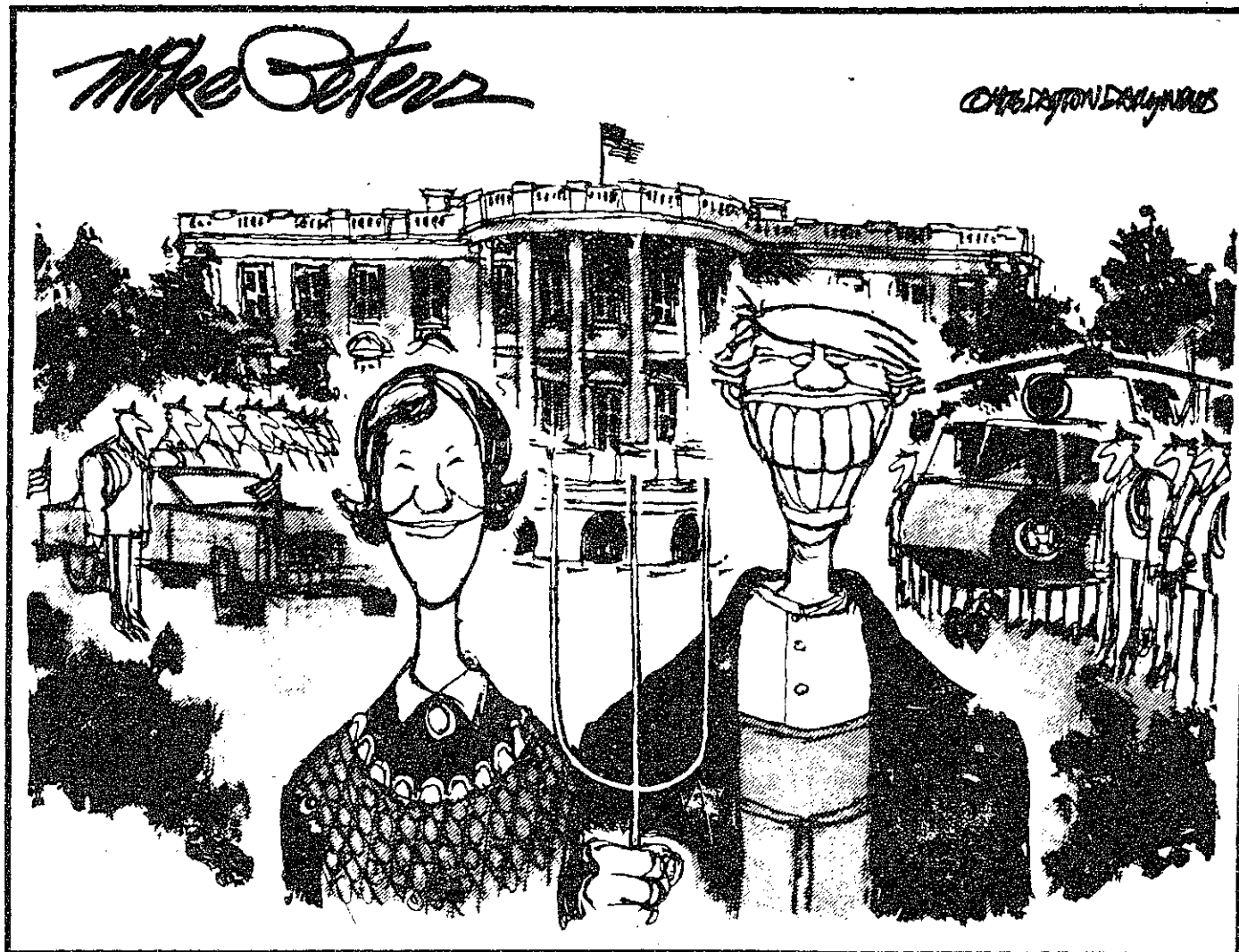
The major problem with Carter's pardon is that it is discriminatory. It pardons the middle-class kids who went to Canada, but ignores the poor who enlisted and deserted — a recent Department of Defense study indicates that less than one percent of all deserters did so under battle conditions, and those who opposed the war in uniform received dishonorable discharges.

Then again, why pardon the evaders at all? Many who fled to Canada or Sweden did so out of conscience; many others evaded out of cowardice. What Carter is saying is that they should be forgiven for their action, even though he asserts that what they did was wrong. Ford's alternative service proposal seems more equitable on the surface — rarely in life does one get something for nothing — but he undercut his logic by pardoning former President Nixon. If that action ended one "national nightmare," why shouldn't the draft resisters be pardoned to end another?

Most Americans now regret our past involvement in Vietnam. The thousands who evaded the draft had that same opinion, but they made their judgment several years before the rest of the nation came around to its senses. They have suffered enough as a result of their actions; let us write a final chapter for them and bring them home, all of them.

Carter's action will not end the national nightmare; the left feels he did not do enough and the right feels he went too far. And for the friends and relatives of soldiers — boys, really — who were killed or permanently crippled in the war, no action either way can return what they have lost. And that is the greatest tragedy of all.

the
real
world



feedback

Controlling arms a dream

To the Editor:

On reading the opinion expressed by Elaine Douglass in *The Tech* of January 21, I was struck by the realization that something had finally been written in *The Tech* that I could not ignore. Hence this letter.

Her opinion begins with the observation that many leaders appeared to approve of Gerald Ford's request for more defense

spending "to meet the Soviet threat," while citing Henry Kissinger as someone who does not see the point of "nuclear supremacy." Two comments are necessary at this point. The first is simply that more defense spending does not translate directly to more nuclear arms. In fact, while our lead is diminishing, everyone concedes that the US still has a comfortable

edge in terms of strategic nuclear weapons. What we need now is a flexible and adequate conventional capability, and it is on these grounds that much of our defense expenditure is and ought to be justified. Second, Henry Kissinger leaves much to be desired as an observer of the strategic balance, considering his well-known belief in the inevitable decline of the West, and triumph of the Soviets. If I believed that the US could not endure for a significant length of time, I too would oppose expenditures on nuclear weapons, on the grounds that they are a waste of money for a nation doomed to defeat.

Later she informs us that, "In point of fact, foreign policy can be handled democratically," as a rebuttal to Gerald Ford asking Congress to restrain itself with regard to foreign policy. Once again, I have two comments. If international relations can be handled democratically, that still does not mean that they can be handled by Congress, or that they should be. Further, constitutionally, while Congress ad-

(Please turn to page 5)

A vote for Beavers

To the Editor:

In regards to the editorial that was run last week in *The Tech* regarding the names of MIT athletic teams, I would like to make my preference known. As a representative of the MIT Women's Rugby Club (yes MIT has a Women's Rugby Club) and as a Political Science Graduate student, I would vote against the name of "The Engineers" and for "The Beavers."

Granted, MIT is known as a technical school. But that is no reason to perpetuate the myth

that that is all it is. Within the Political Science Department, the Sloan School, the Department of Humanities, and the Urban Studies Department, MIT has developed non-technical (and non-engineering) programs of merit that deserve some recognition. As long as the Institute continues to portray itself as the Engineers to other colleges through some of its athletic teams, the myth that MIT is only a technical school will be perpetuated.

Robin Reenstra G
January 22, 1977

Political Spectrum

Electoral College out of date

By William Lasser

Now that Jimmy Carter is President Carter, and the long series of political events, from the first state convention to the inauguration, has ended, it is time to consider the American electoral process, to filter out its inefficiencies and inadequacies, and to suggest change for the future.

Our system of picking new leadership is unique in the world and in history. The tumultuous convulsion which we inflict upon ourselves every four years would rip other countries apart, and the dreadful eleven weeks between election day and inauguration day when we have no effective national leadership would spell doom for other nations.

The process favors regional interests over philosophical ones. Carter derived most of his strength from the Deep South — by building up majorities in every Southern State, Carter was able to amass enough strength to bring himself victory with minimal

Northern support. Regional interests could be diminished in importance by the institution of a national primary and by the abolition of the electoral college system.

The Electoral College is an affront to the sensibilities and an insult to the intelligence of the American people. It was initiated almost two-hundred years ago by men in elitist positions who did not trust the people to elect the Chief Executive directly. There is no reason why the system should allow a President to be elected who has received a minority of the popular vote. In an era of supersonic jets and national television the division between states has become much less important; it is unconscionable that every American should not have the same voice in the election of the President.

Must the process stretch out over so many months? Canadian elections, from the time they are announced until the time the new

government is in power, often take less than three months. There is no elaborate "transition," no expensive and unnecessary inauguration.

We can never hope to have such an election, because the nature of our decision-making process, involving as it does the selection of one candidate at the national level, precludes parliamentary speed and efficiency. But it is not unreasonable to seek a procedure which has one primary, say in June, a general election campaign which takes two months and ends in November, and a transition period which lasts at most six weeks.

Perhaps the problems of apathy and low turnout in the United States are a result of sheer boredom on the part of the electorate. With quick, painless, and thoughtful elections, and the elimination of the electoral college, we could truly let the people rule.

The
Tech

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PHOTOGRAPHY DEPARTMENT

Photo Editors: Tom Klimowicz '77, David Schaller '78; **Associate Photo Editors:** Mark James '78, Richard Reihl '78; **Staff:** Mike Garcia '78, Rob Mitchell '78, Corey Chaplin '79, Randy Fahey '79, Gordon Haff '79, John Hopper '79, Mike Kowtko '79, Lee Lindquist '79, John Bradstreet '80.

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CONTRIBUTING EDITORS

John Hanzel '76, Thomas Mayer, Paul Schindler '74, Leonard H. Tower Jr.

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opinion cont.

feed-back

Arms edge diminishing

(Continued from page 4)

vises and consents, the President makes foreign policy (Article II, Section 3).

But now we get to the truly objectionable part of her opinion: the errors of fact compounded by poor logic. The comments on mobilization, for example. First, mobilization itself is implicitly misdefined. She states that it was once possible to demobilize after a war. It still is, mobilization being the last step before deployment and combat. The US is not currently mobilized.

She next states that, "nuclear defense requires the maintenance of huge and dangerous forces." Nonsense. Nuclear war requires no army, no surface fleet, no conscription. It is not the advent of nuclear weapons that has caused us to maintain a standing army, but a recognition that we are the leading nation of the West and that we have global responsibilities. The presence of intercontinental delivery systems (missiles and long range bombers) keeps us from the temptation of slipping back into splendid isolation, as does our dependence on the rest of the world for trade and raw materials; it is not just the presence of nuclear weapons.

She makes numerous references to small government and national security, claiming that the defense establishment is eroding American rights away. But she doesn't distinguish between necessary security and the excessive portion which can be justifiably criticized. I ask, how significant is this erosion? How many people ever run into problems with those protecting "national security?" And how many of those were more than slightly inconvenienced? Compare this to Stalin's massacres, or the Gulag Archipelago.

As far as small government goes, I ask another question:



I'M SORRY MR. DAVINCI, BUT THE STUDENTS HERE JUST DON'T APPRECIATE ART.

What about the incredible abuses of the "human services" sector? In 1975 government spending on health, welfare, and income maintenance came to \$208 billion, twice the defense budget, and \$8035 for every man, woman, and child under the poverty line. Perhaps small government is not a victim of defense alone.

Finally, the solution to all these alleged evils: arms control. She fails to explain how the requisite trust will come by. The US and the USSR have been incapable of coming to agreement on many things of much less importance, and there is no evidence that anything has changed. The Russians have violated the SALT agreements, and those hardly limited anything. The Russians have ignored Helsinki, and they signed that little more than a year ago. Since the time of the Byzantine empire, and the conversion of

the Russians to Orthodoxy, Russia has been the most paranoid nation on earth, often with reason. Unless this can be overcome, and I see no reason to believe it can, real arms control is an impossible dream.

Matthew M. Wilbert '80
January 22, 1977

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U.S. weapon systems debated

By David Potter

An MIT Professor and an IBM executive faced off Wednesday night in a debate over whether the United States should build the controversial B-1 bomber or the air launched cruise missile (ALCM) system.

The Cambridge Forum discussion did not conform to the billing it received: "Should we build the B-1 bomber?" Far from considering arms limitation, the two participants argued the cost and effectiveness of the two weapons systems.

John F. McCarthy, Professor of Aeronautics and Astronautics at MIT and Director of the Center for Space Research, advocated building the B-1 bomber; Richard L. Garwin, an IBM executive at the Thomas J. Watson Research Center and former member of the President's Science Advisory Committee, supported the ALCM option. Harvard Law School Professor Roger Fisher served as "questioner" and attempted to clarify issues on which the two participants differed.

McCarthy outlined the purpose of the B-1 as a strategic, rather than tactical, weapon, aimed at deterrence. He said that if deterrence fails, the purpose of strategic defense policy is to lower the level of escalation of the conflict, and if that is unsuccessful, to attempt to assure an outcome favorable to the United States. McCarthy emphasized that American policy is one of containment at all levels.

Garwin agreed with McCarthy that a "triad strategic defense policy," consisting of intercontinental ballistic missiles (ICBMs), submarine-launched ballistic missiles (SLBMs), and "airfield-based defense capabilities" is the most economical. He argued with his opponent about the cost and effectiveness of the B-1 versus the ALCM as an airfield based defense system.

Garwin claimed that the ALCM could do the job of the B-1 at a lower cost. The ALCM could be launched, he asserted, from a cargo aircraft such as the KC-135 or Boeing 707 at the perimeter of enemy defenses. He added that the rapid takeoff characteristics of the B-1, for strategic effectiveness, could be duplicated in the cargo aircraft by radio-controlled engine start and rocket takeoff. Garwin said that the cruise missile, once launched, could follow terrain at an altitude of 200 feet, in the same way as the B-1 bomber, which has the disadvantage of having a much larger radar cross-section.

Garwin pointed out that 20 ALCMs launched from each of 250 cargo planes would yield a total strike force of 5,000 warheads, all flying independently, whereas 1,000 B-1 bombers would present a smaller number of targets which could be handled more

easily by enemy defense systems.

McCarthy countered by declaring that a cargo plane would have a low launch survivability compared to the B-1, which is designed with thermal and overpressure insulation against nearby nuclear explosions. He also maintained that the 707 cargo plane has a wide radar cross-section and flies at high altitudes, making it, as an ALCM platform, a logical high value target for the enemy. He emphasized that a 707 cargo plane would be incapable of

defending itself against firstline enemy defenses, which it would have to penetrate at high altitude to bring the ALCM missiles within range of their targets.

Fisher concluded that the B-1 is more risky than the ALCM in the delicate interplay between politics and the military and that, in the event of a crisis, the slower ALCM carriers could be put in the air gradually, and would not have the destabilizing effect of a fleet of supersonic bombers.

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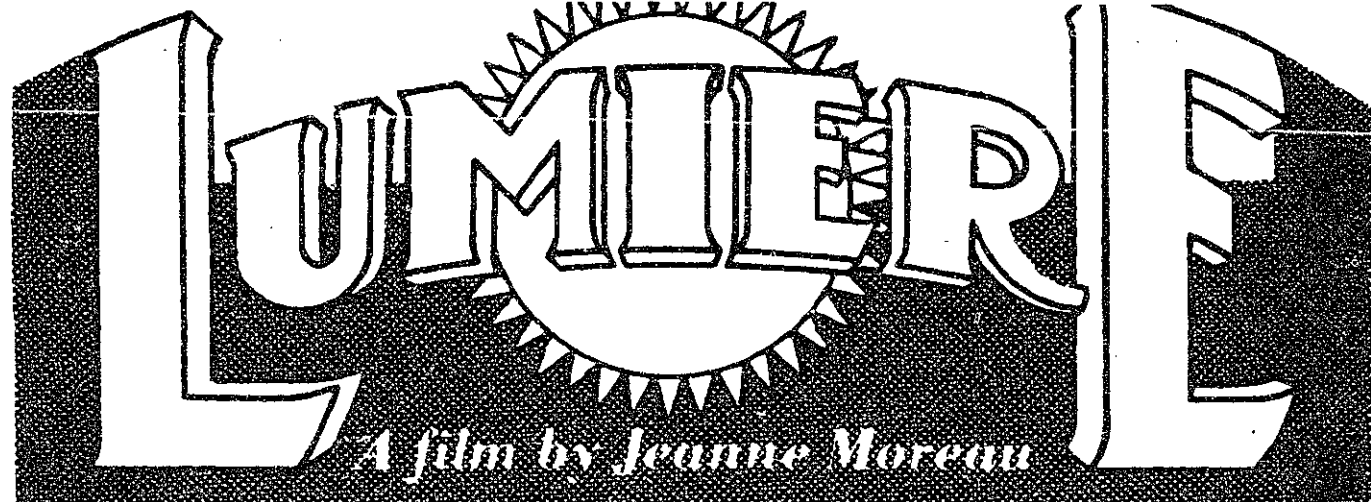
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Recalling an historic week in Washington

By William Lasser

Spending inauguration week in Washington leaves one with a wide variety of impressions and remembrances, from the strictly political to the strikingly symbolic, from the humorous to the poignant. Some notes and comments on Jimmy Carter's big

The former was his surprising walk up Pennsylvania Avenue with his wife and daughter in hand, leading his own parade. The latter was his fulfillment of his campaign promise to pardon Vietnam draft evaders. The media tended to play up the afternoon stroll.



rush hour. The most exciting way of getting around is by cab. Taxi drivers are allowed to pick up more than one passenger; thus, if you're at the White House and want to go to the Capitol, you stand on the eastbound side of Pennsylvania Avenue and wait for a cab to come and then hail it, even if it already has someone in it. Tipping? Washingtonians don't tip well, and the inauguration brought lots of visitors who tip generously. We gave our cabbie two dollars for a \$1.50 fare and he was appreciative.

This was billed as "People's Inaugural," but the only times "The People" were in evidence were at the ceremony itself and during the parade. Both times, they were standing far away from the main event. They were not at the parties in the evening.

The mood was one of hope and joy all week. I asked an elderly black woman if she voted for Carter. "I sure did," she said, "and for McGovern, too."

"I hope he doesn't disappoint us," I commented.

"Oh, he won't." She was emphatic. "He really cares about us poor people."

"We need jobs in this country," I told her, playing the devil's advocate.

"Oh, give him time and he'll get us jobs," she wouldn't budge. Happy days are here again, I thought.

Carter's speech was not memorable. It faded rapidly from his opening moment of grace, thanking Gerald Ford for healing the nation. He soon lapsed into a dry, colorless oration. He never was a speaker. I didn't like the

way Carter took the oath of office itself, either. He was quite nonchalant about it, as if it didn't mean anything. Mondale had some trouble repeating his oath — it's much harder than the President's, longer and with more words to trip over.

Best photograph of the week: printed in the current issue of *Newsweek* magazine, it shows Carter smiling like a little boy while "trying on the Oval Office for size."

Best dressed men at the inaugural ceremony — Chief Justice Warren E. Burger and the other members of the Supreme Court, looking very dignified in their black judicial robes.

During inaugural week, Washington had more pretty girls

per square mile than any other Eastern city I have ever been in, and that includes Atlantic City during the Miss America pageant.

Oddest song sung at the inaugural: an all-black Atlanta chorus performed "The Battle Hymn of the Republic," which was strange because it was a Northern Civil War tune and Carter is the first Southern President in over 100 years. We've come a long way.

In his speech, Carter quoted the Bible, which commanded him "to do justly, and to love mercy, and to walk humbly with thy God." His walk to the White House was a dramatization, in a sense, of the last. If he follows the other two dicta, the American people will have little to complain about.

party in the nation's capital:

It was bitter cold in Washington, and watching Carter take the oath, dressed only in a business suit made it seem even colder. Of course, his platform was heated. It was sad to see Senator Humphrey bundled up in an overcoat and winter hat on the same platform, as it was a reminder of how sick he has been, and how long he has been a vital force in American politics. One of the great New Deal Democrats has passed his prime.

The Mayflower Hotel has the best barber shop in the city, according to *The Washington Post*, and they're right. That hotel also has convenient telephones — incidentally, it costs fifteen cents to make a local call.

Lunch at *Sans Souci* is expensive but an experience. It's Art Buchwald's favorite restaurant. The food is superb, the service impeccable, and the atmosphere strictly business — the conversation to our left dealt with banking and confidential records. Lunch for two cost \$25, and could easily have cost \$50. For reservations, you must call at least a few days ahead — fully half of the tables are reserved on a "hold unless called" basis.

The most impressive sight in the city is the Capitol Dome at night, but the best building for simple elegance is the White House, especially viewed from the Pennsylvania Avenue side. The Lincoln Memorial is disappointing from far away, but moving from close up. The Washington Monument is simply disappointing.

Jimmy Carter started out his Presidency with two important acts, one symbolic and one real.

Graduate Study at the Rand Institute

A representative of the Rand Graduate Institute will be on campus Monday, February 7, 10:30am-12:30pm, in the office of Career Planning and Placement, the Institute awards a Ph.D. in Policy Analysis. A Master's degree is required for admission. For information, call Mrs. Jackson at 253-4733.

By far the classiest inaugural party to be invited to was the one at the Washington Hilton. Even the Secret Service agents were dressed up.

I don't think anyone parks legally in the District, which is what the natives call the place (also D.C.). Walking is often faster than driving, especially in

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Exhibit on calligraphy artistic and educational

The many styles of Chinese Calligraphy were beautifully displayed at an exhibit in the West Lounge of the Student Center Wednesday.

Most of the 40 works on display were done by students who took the IAP "Art of Chinese Calligraphy" course sponsored by the MIT Chinese Students' Club and given by artist Lydia Chang at the invitation of Professor Sivin of the Technology Studies Program. The work done by the students over IAP was superb and reflected a lot of hard work.

Especially pleasing and artistic was a nine-foot long scroll done by Ka Ning Chu in Regular Script. The strength of her strokes and the arrangement of the characters made the whole piece seem vibrant and alive. Other interesting works included Robert Taylor's Cursive Script execution of the word for dragon and Calvin Chew's Official Script.

Chinese calligraphy is different from Western calligraphy in many ways. The emphasis is on mastery of the brush and on using the brush to impart "life energy" to a character. There are seven broad styles of

Chinese characters, each style reflecting cultural change and innovation over China's long history. All seven styles were represented at the exhibition.

The application of Chinese Calligraphy techniques to Chinese painting was demonstrated by Chang, who teaches Chinese Calligraphy at Columbia University in New York City. She showed how the brush strokes suited to each particular style can be used to synthesize a creative work. Thus, Small Seal Script can be applied to the stem of a bamboo, regular script becomes adaptable to intricate leaves, and so on, until a whole bamboo tree is drawn.

Chang followed with a demonstration of Chinese watercolor painting in which she gave a student the feel of doing a painting. The demonstrations helped illuminate both the close relationship between these two art forms and Chang's mastery of them.

All things considered, the exhibit, which was sponsored by the MIT Humanities Department and the MIT Chinese Students' Club, was both artistic and educational.



Mark James

Record prices soar

By David B. Koretz

Higher prices on recently released records foreshadow an across-the-board list price increase of one dollar which will gradually be implemented during the coming year.

One month ago, Warner Brothers Records became the first to release a single-disc popular album with a \$7.98 list price — Queen's *A Day at the Races* — and RCA followed last week with David Bowie's *Low*. Upcoming albums by George Benson and Fleetwood Mac, also on Warner Brothers labels, have already been list priced at \$7.98.

As might be expected, fewer people are buying the more expensive albums, according to Marty Lawhorn of the Harvard Coop. "It (the increase) shows," said Lawhorn. He noted that because of the higher price the month-old Queen album is "not even in our top fifteen. It's not selling like it would be... it's not selling very well." The record has been selling at 50 to 80 cents more than the Coop's regular prices.

Things will get much worse in the next few months, Lawhorn asserted, as more major popular releases are expected to show the increase, and several classical labels have announced plans to add an extra dollar to their list prices.

New Deutsche Grammophon and Philips records will jump from \$7.98 to \$8.98, while Angel albums will be going to \$7.98. In addition, such major classical labels as Argo, London, and RCA and its

subsidiaries will make this move in the near future.

Popular albums currently catalogued at \$6.98 will remain so "for a while, probably through next Christmas, maybe the beginning of 1978, although Columbia's \$5.98 series will be going up to \$6.98 soon," stated Lawhorn. Three years ago, when Warner Brothers touched off the industry-wide increases from \$5.98 to \$6.98, the entire catalogue went up at the same time.

Just as the last changes were predictable, these were also "inevitable," said Steve Macon of Strawberries. "We haven't gotten any word (on the catalogue price increase)," Macon noted, but he added that they expect it to come by the end of the year.

Macon also agreed that sales of the more expensive LP's were lagging, and also said that he didn't think Strawberries would be able to sell them for under \$4.49, due to the accompanying rise in wholesale prices.

Lawhorn figured that the Coop would generally sell these new albums at \$4.49, "but certainly no lower than \$4.39," also quoting rising dealer costs. He pointed out that the \$6.98-list albums cost "\$3.00 to \$3.60, depending on who we get them from and what kind of a deal we have," and that the \$7.98 list albums cost "\$3.50 to \$4.00, maybe a little more."

In addition, *Billboard* magazine reported this week that Warner Brothers had raised the dealer costs of the \$7.98 series LP's about five percent as of January 10.

Record Review

Bowie sinks Low

By David B. Koretz

It is only the end of January, and the first major contender for Disappointment of the Year has crawled onto the music scene. I refer to none other than David Bowie's overpriced new nonsense, *Low*.

The price (\$7.98 series) alone does not bother me, but the lack of effort, the lack of excitement, and the lack of quality, from boring beginning to tedious end, gives me cause to check the label again and see whether it might perhaps be some other musician whose disc I have purchased by mistake.

Side one starts and ends with unpleasant instrumentals, setting the mood for the entire album with too much synthesized music — synthetic strings, arp, moog, synthesizer, in fact just about every musical device known that sounds terrible when used incorrectly.

The music is slow and uneven, missing the pleasing harmony usually present with these instruments, and certainly missing

the verve and passion that has been the backbone of Bowie's albums to date. He never raises his voice on this side until the sixth of seven tracks, and then it is distorted by the electronic junk. Moreover, no cut on the first side lasts over three and a half minutes.

On side two Bowie turns to longer songs, which just turn out to be more tedious. The effect of the gizmos solidifies somewhere between Yes's *Relayer* being played too fast and any Genesis album being played too slowly. The first track on the flip, "Warszawa," at times slips into a funeral dirge.

Picturing the hard-rocking master of "Young Americans" and "TVC15" wasting his time on a computerized waltz record is a bit hard to grasp. Perhaps this album should have been released several years ago as a companion record to Bowie's *David Live*; the title *David Dead* would fit very nicely.

Mel Blanc, voice of cartoons, reminisces

By Robert St. James

Have you ever wondered how Porky Pig received his voice? Mel Blanc, originator of the voice, explained how last Monday night at a lecture sponsored by LSC.

Speaking to a crowd of over 1,100 people, Blanc said "I wanted to be real authentic about it, so I went out to a pig farm and I wallowed around with the pigs for a couple of weeks. Then I went back to the studio and they threw me out and said, 'Go home and take a bath.' So I did."

Fortunately for us all, Blanc returned and created the voice of Porky Pig — a voice familiar to nearly everyone in America. Yet Porky's voice is only one of many voices created by Blanc.

Blanc, asked how many voices he had created, noted that he had once attempted to count them. "I started early in the morning, and at midnight I had fallen asleep. I had passed the 400 mark. That was 15 years ago, and I've created a lot since then. When they say 'The Man of a Thousand Voices,' They're not kidding too much."

Blanc is the father of almost all the voice characterizations in the Warner Brothers cartoons. In addition to Porky Pig, these include Daffy Duck, Yosemite Sam, the Road Runner, Wile E. Coyote, Pepe le Pew, Speedy Gonzales, Foghorn Leghorn, Tweety, Sylvester, and the Tasmanian Devil. The most popular of all, though, and Blanc's personal favorite, is without doubt Bugs Bunny.

Bugs Bunny was created in 1938. His name was to have been the Happy Rabbit and his favorite expression "Hey, what's cookin'?" When Blanc was told this, he suggested that the character be named after

the artist, Bugs Hardaway, and proposed the name Bugs Bunny. In place of "Hey, what's cookin'?" he offered "What's up, Doc?" an expression in vogue at the time. Blanc's suggestions were accepted and Bugs Bunny was born.

Cartoons are not the only success Blanc has known in the entertainment business. In 1939, Blanc started working for Jack Benny on Benny's radio show. His first role was that of Carmichael, the bear whose duty was guarding Benny's basement vault. For six months, Blanc was only heard

growling in the role of Carmichael. After informing Benny that he was also able to talk, Blanc soon accumulated various other roles. The most memorable of these are Benny's parrot, the train announcer at the depot, and, of course, Benny's perpetually dying Maxwell automobile.

The scriptwriters on the Benny show were always striving to find a voice that Blanc could not do. Even though they requested things like the sound of a goldfish and an *English* horse whinny, they never succeeded in stumping him.

Blanc's radio career flourished even

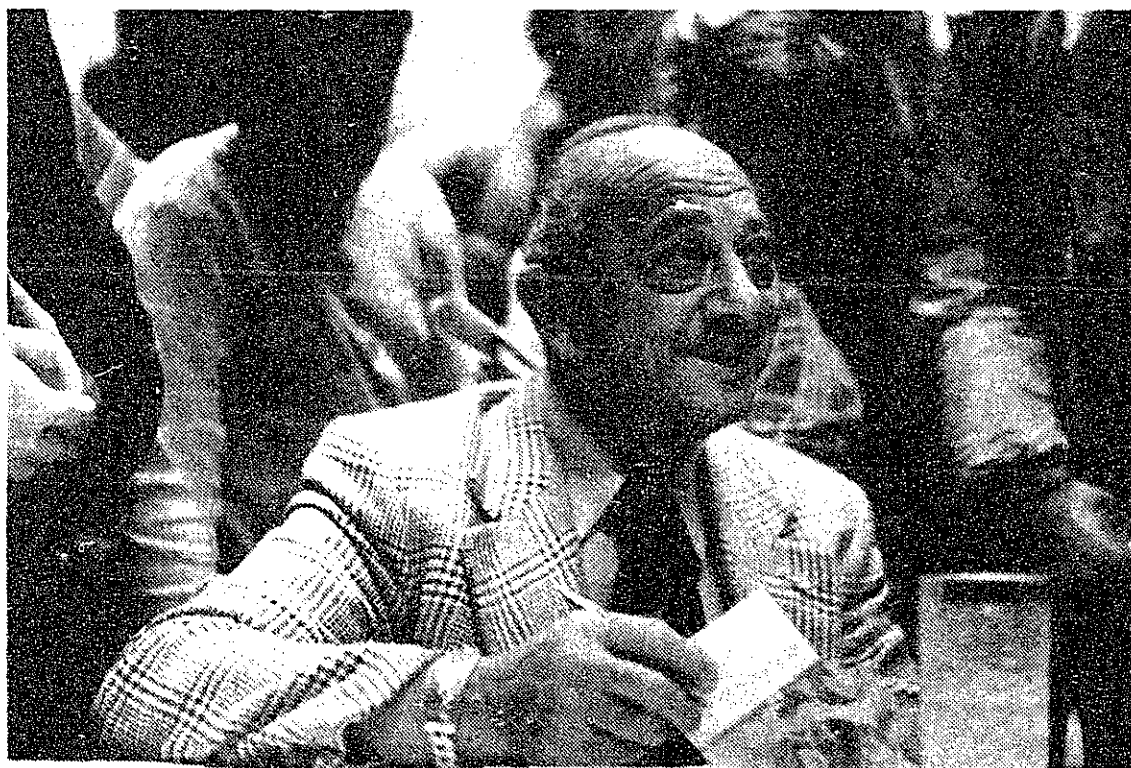
beyond the Jack Benny show. At one time he was heard in 18 transcontinental radio shows each week out of Los Angeles.

Blanc now spends most of his time working in commercials and entertaining children. "One of the greatest things I love to do is to entertain kids in crippled children's hospitals. I love to go to the Shrine Crippled Children's Hospital. I happen to be a Shriner myself, and I know that these kids are so happy to get away from their pain for just 30 minutes or so. They forget about their braces and their casts and so on and they laugh for 30 minutes. This is great satisfaction to me."

During the question period, a student asked Blanc to give a voice to the Beaver in the MIT emblem. When she went on stage to show him her class ring, Blanc said, "I'm going to throw her out of here — she's wearing a Mickey Mouse wristwatch!" She remained, however, and now our beloved beaver has a voice.

Blanc maintained that he does not imitate other voices. "If I can't create a voice, I won't do it." When he was asked by Joe Barbera, of Hanna-Barbera cartoons, to do the voice of Barney Rubble in "The Flintstones," Barbera wanted him to do an imitation of Art Carney's voice. Blanc replied, "I'll give you some of the inflections that Carney uses, but I don't want to steal his voice, because actually taking a voice from another man is stealing."

The last question asked of Blanc was whether he still watched the cartoons on TV. His reply, I believe, goes for most of us: "Those crazy things? You bet I do! And you want to know something? I love 'em, too."



David Schaller

Mel Blanc signs autographs after his lecture Monday night in Kresge.

arts cont.

Jacques Brel is alive and well . . . at MIT

By Kathy Hardis

The MIT Musical Theatre Guild's current production of *Jacques Brel is Alive and Well and Living in Paris* incorporates vocal and instrumental talent in a cabaret-style atmosphere, and the resulting performances are enjoyable and well worth hearing.

The show is neither a review nor a musical but rather a presentation of twenty-six songs written by the Belgian-born composer Jacques Brel. These songs go beyond the typical French cabaret *chansons*, and even in their English translations the lyrics are poetic and emotionally powerful.

Jacques Brel has no plot, but each song is almost a self-contained minidrama with its own individual mood and characters. In one scene the statue of a soldier recounts the hypocrisy of his death and his undeserved hero's memorial, while in another a boy waits in rain outside a movie house for a girl who does not want to see him.

The subjects of these songs encompass a variety of topics — old age, love, death, loneliness, class distinction — and the musical styles range from catchy vaudeville numbers to harsh, assertive songs of protest.

The virtuoso quartet of singer/performers consists of Sharon Lowenheim '79, Susan Morgello '78, Tom Tomasovic '74, and director Robert Greer G. Their voices blend together well, especially in the lively "Madeleine," but each individual possesses a distinct manner of singing.

The quality and style of Sharon Lowenheim's voice is rich, clear, and well-controlled; hers is perhaps the most pleasant in the production. Her rendition of "Old Folks" is touching and expertly done.

Susan Morgello invokes the moods and meanings of her songs not only with her voice but also with her facial expressions and body movements. Her performance of "Marieke" is sung well and comes across



John Lepingwell (courtesy Technique)

with great emotional impact.

Tom Tomasovic has the group's most powerful and trained voice and sings with the proper, upright style of opera. His formality fades when he sits on a stool and sings the evening's most beautiful and stirring song, the poignant love ballad "Fanette."

Robert Greer throws himself into his songs with feeling and emotion, especially in "Next" and "Amsterdam."

The small jazz orchestra, conducted by Eric Ziering '78, is as praiseworthy as the cast. Only on a few occasions do they play too loudly, but generally their performance and additional jam sessions are outstanding.

The technical aspects of this production are understandably limited because *Jacques Brel* does not warrant excessive theatrical effects. The lighting, however,

occasionally uses special effects to enhance the moods of the songs. Colored lights move around the stage during "Carousel," increasing in speed with the music, and a strobe adds the appropriate atmosphere to "Brussels," a lively piece reminiscent of the song-and-dance numbers in old-time movies.

The use of a platform stage as opposed to a standard proscenium theatre works well in the production. In spite of the stage's unusual shape, the performers are usually positioned effectively, and their simple choreography does not override their singing. Some of the group numbers, such as "Marathon," could have been coordinated more precisely, but the staging of "Timid Frieda" and "The Bulls" are both clever and well executed.

The "cabaret atmosphere" is created by small tables which casually surround the

low platform stage. Waiters bring complimentary popcorn to each table and sell drinks at moderate prices.

There are many reasons for the success of *Jacques Brel*, and the only serious failure lies in its unfortunate location. The large, acoustically poor Lobdell dining hall, inherently built to deaden sound, lacks the cozy intimacy necessary for such a production. One hopes that by the second weekend microphones and speakers will be added, so that the audience sitting far away from the stage hear the words clearly and distinctly.

If one does sit close enough to the stage, it is possible to receive the production's full theatrical impact. *Jacques Brel is Alive and Well and Living in Paris* is a stirring and wonderful show, performed by a cast capable of doing justice to the Brel's brilliant music.

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sports cont.

Roundup

M fencers take 4th; grapplers 2nd in GB

By Tom Curtis and Dave Dobos

The men's varsity fencing team captured a close match at Dartmouth Saturday. The 14-13 win was the team's fourth victory.

Rich Reimer '77 paced the foilsmen with a 12-4 bout victory. Robert Shin '77 and Mark Smith '78 recorded sabre wins for the Engineers. Senior captain Arlie Sterling led the epee team with a 12-6 victory.

The team's next meet is at Brown Thursday.

In the Greater Boston Wednesday at Boston University, the varsity wrestling team took second place, trailing victorious BU.

Gold medalists for the Engineers were Norman Hairston '79 in the 118-pound class, team captain Steve Brown '77 in the 150-pound division, and Bruce Wrobel '79 in the 177-pound class. Darwin Fleischaker '78 (190-pound), Hoyt Davidson '79 (167-pound), Gary Spletter '79 (158-pound), Gordon Swartz '79 (142-pound), and Jody Silver '77 (135-pound) took silvers.

Last Saturday, in a four-way

meet, the team beat Albany State, but lost to Southern Connecticut and Amherst. Hairston was outstanding for the Engineers winning all three of his matches.

MIT's wrestlers are hosting a quad tournament today and tomorrow, featuring Central Connecticut, New York Maritime, and Pennsylvania. The action begins at 11am.

The Hockey club tied lightly-regarded Fitchburg State Tuesday at the Rink. The Beavers held a 2-0 lead at the end of two periods on goals by Rick Bryant '79 and Al Strong '80. However, Fitchburg came back to tie the score 2-2 at the end of regulation time. The overtime period failed to produce a winner. Goalie Paul Estey G had 40 saves for MIT. The Beavers record is now 7-2-1.

Despite the men's gymnastics team's loss to Dartmouth Saturday, Larry Yablong '79 remained undefeated on the rings. The ring event was the only event won by the Engineers in the 144.45-122.40 defeat. The team's next meet is tomorrow at Yale.

In the finals of the second annual 1-on-1 Basketball Tourna-



Strain shows on the face of this competitor in the IAP Arm Wrestling Tournament.

Gordon Haif

ment last Monday night, Mike O'Malley '79 topped Dan Palka '78 in the over 6' division. Rich Porter '77 took two from Clarence Holmes '80, the latter by a 21-20 score, to earn the 6' and under division trophy in the double elimination contest. O'Malley became the only unbeaten entry, finishing with a perfect 5-0 record. Porter, forced to wade

through a few more competitors, ended up 8-1. A total of 42 students participated in the tourney.

Fierce competition characterized the sparsely attended IAP Arm-Wrestling Championships last Sunday in duPont. Larry Yablong '79 (lightweight) and campus patrolman Leslie Pardy (heavyweight) emerged un-

defeated in their weight classes. Dan Radler '79 and Doug Knott '78 were runners-up in light and heavy, respectively. The middleweight division climaxed with a battle of the unbeaten between Jim Cherry '78 and Chris De Marco '80. The two struggled for over five minutes before Cherry took the third match in the best-of-three event.

Women's fencing wins twice

Jeannette M. Wing

The MIT women's fencing team (5-3) scored two more victories last week, defeating Concord-Carlisle and Dartmouth College.

The meet against Concord-Carlisle started out slowly for MIT, always leading or trailing by one bout. But in the third round, Michelle Prettyman '79 clinched the lop-sided 11-5 victory by winning the meet's deciding ninth bout 5-0. Prettyman beat all four of her opponents.

Co-captain Judy Austin '77, Jeannette Wing '78, and Sue Nelson '77 each contributed two victories, and Julia Shimoaka '80 contributed one. Also fencing were Karen Kaufman '77 and Marian Stein '80. This is the first time in the history of MIT women's fencing that MIT has beaten Concord-Carlisle.

The meet against Dartmouth was extremely close and decided only by the last bout fenced by Karen Kaufman. Although MIT lost this last bout, Kaufman had brought the touch score to la belle

(4-4) before losing. With the final bout score tied at 8-8, the meet was decided using the total number of touches received by each team and MIT won 59-62.

At the beginning of the meet, MIT was well ahead 7-3, but then Dartmouth quickly caught up putting all the pressure on the last bout. Austin won three bouts; Prettyman and Wing two each; Nelson, one.

The next meet is at duPont on Wednesday, February 2 at 7pm against URI.

Dartmouth tops W swimming

By Wendy Irving

The women's varsity swimming team met Dartmouth last Saturday. Having never swum against Dartmouth before, the women didn't quite know what to expect. Despite some personal best times, the MIT team was overpowered by the Dartmouth women 84-47.

Dartmouth won ten of the fifteen events. Winners for MIT were Karen Fabricius '80 in the 200 yard freestyle (2:16.85), Sheila Kunecke in the 50 and 100 yard breaststroke (0:36.39, 1:19.24), Joan Hooper in the one-meter diving (1:28.35), and the 200 yard freestyle relay team of Kunecke, Fabricius, Carol Brown, and Barbara Thornton (1:52.9).

The team's record so far this season is 1-2. The women go up against Southwestern Massachusetts 7:00pm Tuesday at Alumni Pool.

Summary of Events:

200 Yard Medley Relay: 1-Dartmouth; 2-MIT; 2:06.5. 100 Yard Individual Medley: 1-Fountas(D); 2-Thornton(M); 3-Loomis(D); 1:10.44. 200 Yard freestyle: 1-Fabricius(M); 2-Gildan(D); 3-Chardon(D); 2:16.85. 50 Yard Backstroke: 1-Wessels(D); 2-Marous(M); 3-Shaw(D); 0:30.94. 50 Yard Breaststroke: 1-Kunecke(M); 2-Ruzicka(D); 3-Brown(M); 0:36.39.

50 Yard Freestyle: 1-Pelman(D); 2-Fagerstrom(D); 3-Thornton(M); 0:27.71. 50 Yard Butterfly: 1-Geer(D); 2-

Fountas(D); 3-Page(M); 0:31.03. One-Meter Diving: 1-Hooper(M); 2-Altman(D); 3-Lamel(M); 1:28.35. 100 Yard Butterfly: 1-Geer(D); 2-Fountas(D); 3-Rodgers(D); 1:05.55. 100 Yard Freestyle: 1-Gildan(D); 2-Pelmas(D); 3-Fabricius(M); 1:00.34. 100 Yard Backstroke: 1-Wessels(D); 2-Fagerstrom(D); 3-

Shaw(D); 1:06.81. 500 Yard Freestyle: 1-Geer(D); 2-Loomis(D); 3-Irving(M); 6:13.87. 100 Yard Breaststroke: 1-Kunicke(M); 2-Marcus(M); 3-Ruzicka(D); 1:19.24. Three-Meter Diving: 1-Martin(D); 2-Lamel(M); 3-Altman(D); 1:13.10. Final Score: Dartmouth 84, MIT 47.

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Track thrashes Lowell and Tufts, now 6-0

By Dave Dobos

The MIT indoor track team coasted to its most lopsided victory in at least four years, thrashing Lowell and Tufts here last Saturday. Out of 140 total points, the Beavers collected a phenomenal 92½, leaving Lowell with 37 and lowly Tufts with 10½.

Sweeping to eleven of 13 individual event first places, the thinclads consistently put forth top efforts. Driving competitiveness characterized every MIT performance.

Junior high jumper Reid von Borstel soared to new heights for the second straight meet, breaking his one-week-old MIT varsity record by ¼". The Alberta native leaped an amazing 6'7¼" to the delight of an enthusiastic MIT team and numerous home fans. His former mark of 6'6½" had beaten that of Walt Gibbons '74 against Williams on January 15.

Senior speedster Rich Okine remained undefeated in both the 50 yd. dash and the 45 yd. high hurdles in '76-'77 season dual meets. His seemingly effortless technique powered him to easy victories in his specialty races. To put the icing on the cake, Okine left behind the Lowell anchor man in the final leg of the mile relay in the day's last event.

Kwaku Temeng '80 set a new freshman record in the long jump. His leap of 22'½" bested the 1969 mark of Stan Peck '72 by 3½". Besides winning the long jump, Temeng placed second in the dash and picked up a third in the triple jump.

The runners recovered from the doldrums they suffered at Williams. Capturing six of seven events, thinclad runners finished

1-2 in the dash, 1000 yard run, mile, and two mile, scoring 50 of 74 possible points.

John Dillon '78 and Jack Reeves '77 pulled away from their Lowell opponent in the 1000. The talented junior ran his best race of the season and the sometimes erratic Reeves paced to his third strong performance in a row.

Grinning as he neared the finish tape, freshman Lenny Nasser won his first race in an MIT uniform. The slow, opening pace was perfect for him as he became stronger with the development of the contest. "They let him warm up in the middle of the race," laughed assistant coach Pete Close when commenting about the freshman's mile. Nasser's fraternity brother Chris Svendsgaard '78, despite being plagued with a cold, finished a strong second.

Senior co-captain Frank Richardson obliterated all but teammate Barry Bayus '79 in the two mile. The three-time All-American left the pack early in the race and coasted to an easy victory. Bayus separated himself from the Lowell and Tufts runners at about the mile mark and actually made up some distance on Richardson during the final ten laps.

MIT enjoyed several fine performances in the field events. Beaver triple jumpers Jason Tong '79, Bill Heil '79, and Temeng swept the first three places in that event. Tong topped his previous best by nine inches. Jim Williams '77 and Ed Ingenito '79 both cleared 13'6" in a highly competitive pole vault contest. Shot put winner Fred Bunke '78 and teammate Steve Sifferlen '78 both

tossed the 35 lb. weight over 50 feet. Freshman Jim Turlo placed in three events to add seven points to the Beaver total.

Head coach Gordon Kelly has seen his squad put on its finest performance during his tenure at MIT. His athletes, now 6-0, are certainly on a par with any other New England Division III college. "We performed very well," said Kelly, who felt that the thinclads were "caught up in the momentum" of the meet's competitiveness. Assistant coach Close joked that the runners "more than made up for" their performance at Williams.

MIT travels to Bowdoin tomorrow in what promises to be the Beavers' toughest test this season.

Summary of Events:

35 lb. Weight Throw: 1-Haskell(L); 2-Sifferlen(M); 3-Fuller(L); 4-Bunke(M); 62'10".
Shot Put: 1-Bunke(M); 2-Haskell(L); 3-Brice(L); 4-Fuller(L); 46'2¼".
Long Jump: 1-Temeng(M); 2-Stewart(T); 3-Turlo(M); 4-Robinson(L); 22'½".
Triple Jump: 1-Tong(M); 2-Heil(M); 3-Temeng(M); 4-Kashlan(L); 43'9½".
High Jump: 1-von Borstel(M); 2-Turlo(M); 3-Pilcher(L); 4-Eliot(M); 6'7¼".
Pole Vault: 1-Williams(M); 2-tie-Ingenito(M) and Callahan(T); 4-Kirby(L); 13'6".

50 yd. Dash: 1-Okine(M); 2-Temeng(M); 3-Hoffman(M); 4-Ruone(L); 0:05.7.
45 yd. High Hurdles: 1-Okine(M); 2-Karl(L); 3-Turlo(M); 4-Rosenthal(T); 0:06.1.
600 yd. Run: 1-Kashlan(L); 2-Dunlay(M); 3-Lee(T); 4-O'Grady(L); 1:18.0.

1000 yd. Run: 1-Dillon(M); 2-Reeves(M); 3-Sherman(L); 4-Goode(M); 2:22.5.
Mile Run: 1-Nasser(M); 2-Svendsgaard(M); 3-Fournier(L); 4-Davis(T); 4:34.5.
Two-Mile Run: 1-Richardson(M);

2-Bayus(M); 3-Hurton(L); 4-Ciano(T); 9:26.0
Mile Relay: 1-MIT(Dunlay, De Marco, Foley, Okine); 2-Lowell; 3-Tufts; 3:44.3
Final Score: MIT 92½, Lowell 37, Tufts 10½



An MIT long jumper soars through the air as his team soared past Lowell and Tufts in a tri-meet Saturday.

Men's swimming bops BC in opener

By Gregg Stave

Last Saturday the MIT swim team easily defeated Boston College 77-35 in the season opener at Boston College.

Highlighted by freshman John Dieken's performance in the 500 and 1000 yard races the Beavers recorded strong swims in all events. Dieken's 10:55.9 clocking for the 1000 yard swim, the longest event in dual meet competition, was less than three seconds off the school record. Junior captain Sam Senne also registered double victories winning the 50 and 100 yard sprints.

On the diving boards senior Rick Ehrlich and junior Paul Snyder finished first and second respectively in both the one and three meter competitions. The Beavers also picked up one-two finishes in many races including the 1000 yard freestyle, 100 yard freestyle, 200 yard breaststroke, and 200 yard backstroke. Preston

Vorlicek, a sophomore who was last year's MVP, won the breaststroke contest and finished a close second in the 200 yard individual medley. Backstroker Scott Moor won his 200 yard race handily.

The only bright spots for the Boston College Seagles were Paul Mahoney's double wins in the butterfly and individual medley and John Gleason's narrow victory in the 200 yard freestyle. MIT dominated the meet which Coach John Benedick characterized as a "good opening meet."

Practicing twice a day, the swimmers have morning workouts at seven o'clock. At this point in the season they have each already swum over 200,000 yards which is well over 100 miles.

Tomorrow the Beavers will take on WPI and Lowell at the Alumni Pool. The starting gun goes off at 2:00pm.

Women's basketball overruns Holy Cross

By Tom Curtis

Playing much more aggressively than in previous games, the women's varsity basketball team demolished Holy Cross last Friday.

After having been on the short end of the score in their first six games, the latest a loss to Lowell last Wednesday, the women put together an excellent show of teamwork in running away from the Crusaders 58-30.

Led by freshman guard Sue Stulz's 10 points, the Engineers thoroughly outmaneuvered the Crusaders in the first half. In the first fifteen minutes of the half, MIT ran up a 15-10 advantage. Then, the Engineer women tore off 12 straight points to take a 17-point halftime lead.

The second half was more of the same as the Engineers continually padded their lead. Center Diane Ozelius '79 starred for MIT, pouring in 12 of her 20

points in the second half. With just seconds remaining in the game, the Engineers held a 30-point lead, their largest of the game. Holy Cross scored just before the buzzer to make the final score 58-30.

Stulz, taking the ball to the basket more often than in her earlier games, was a key factor in MIT's victory. She was also the games second highest scorer with 15 points. Sheila Luster '78 also played well for the Engineers, scoring her number, thirteen.

The team had a letdown Monday playing Southwestern Massachusetts. SMU easily defeated MIT 63-34. Luster led the Engineers with 12 points. MIT was handicapped by the loss of Ozelius who was injured leaving the court at halftime.

The Engineers will be playing in the Brown Tournament today and tomorrow in Providence.

Nagem key to cage success

By Glenn Brownstein

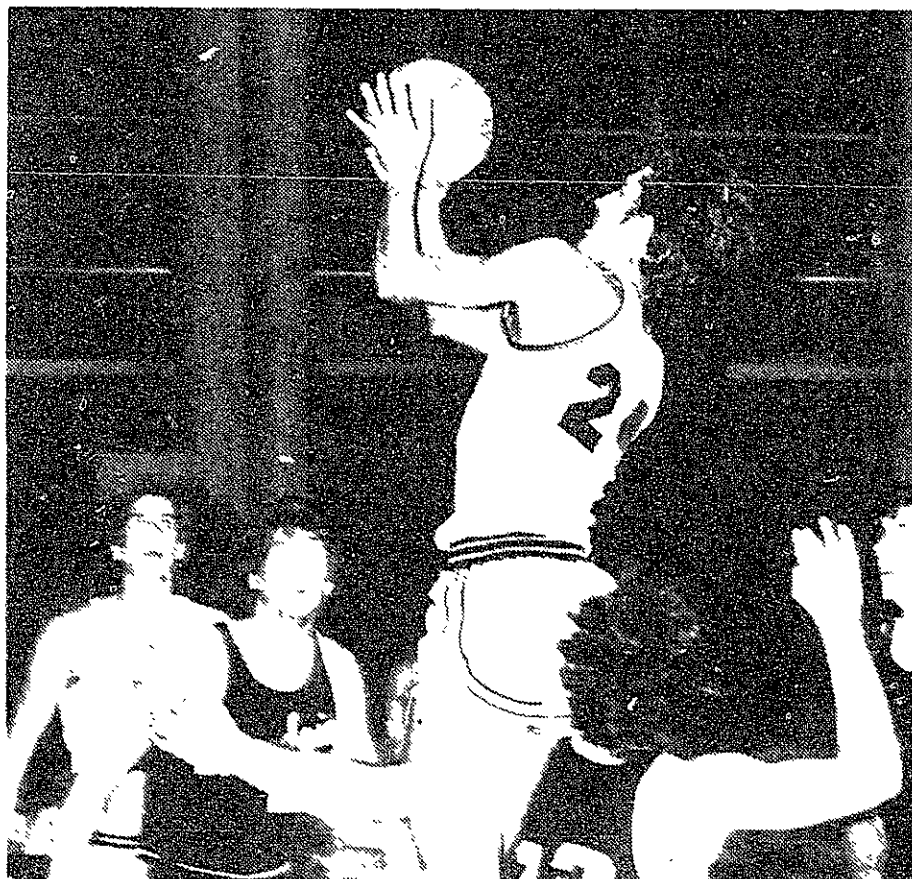
When Beaver basketball coach Fran O'Brien set about rebuilding a team for 1976-77 after the departure of star forwards Cam Lange '76 and Peter Jackson '76, his first priority was to find a center to shoulder some of the rebounding burden the MIT squad would face.

While the incoming freshman class appeared to yield no such treasure, O'Brien nonetheless has found his man there — a six-foot-five "walk-on" from San Diego, Ray Nagem, whose frontcourt play has helped give some life to what at first appeared to be a potentially dreary year for the cagers.

Nagem, with two of his best performances this year, led MIT to one rewarding victory over Bowdoin, 59-55, and a somewhat rewarding 82-69 loss (if there can be such a thing) to Tufts last week.

In the two contests, Nagem shot a combined 76 per cent from the floor (16 for 21), and scored 35 points to lead MIT in both departments, while controlling the offensive threats from Bowdoin and Tufts very successfully. Bowdoin's Jim Small, a primary cause of MIT's 1-3 record against the Polar Bears the past two years, scored only ten points and had a poor shooting night. Tufts' inside men had a good night against the Beavers, but it's safe to say that MIT would never have been in the game without some help underneath the basket.

Against Bowdoin, MIT led from the start, rolling up a 32-22 halftime lead before the Polar Bears came back. Although the Maine school repeatedly cut MIT's margin to two points throughout the last eight minutes



Beaver guard Rick Van Etten '78 puts up a jumper in MIT's 59-55 win over Bowdoin Saturday in Rockwell Cage.

of the game, the Beavers held on, cementing the triumph on two free throws by Rick Van Etten '78 with nine seconds left.

Van Etten and guard John Doyle '77, starting in place of injured Tom Berman '79, led the Beavers with 14 points each.

Although Tufts threatened to blow MIT off the court in that game's opening moments, leading 22-7 after seven minutes, the killer punch was not delivered until well into the second half. MIT, trailing by about 15 points for much of the game, refused to fold and sliced Tufts' lead to 63-55 with over six minutes remaining. Unfortunately, the Beavers came up empty-handed on three consecutive chances to cut the

Jumbo's lead to six, and Tufts seized the opportunity to reopen its margin and secure the win.

Nagem had 22 points for MIT, while Tufts sharpshooter Jeff Brauer paced the winners with 17 markers.

The possibility of a winning season, thought to be extremely unlikely back in November, has become real as the Beavers sport a 4-7 mark with ten games remaining. However, MIT also faces its toughest part of the schedule in the next two weeks with games against Coast Guard, Amherst, Clark and Nichols.

MIT's next home game will be against Amherst, featuring high-scoring guard Jim Rehnquist. Wednesday night at 8:15.