

in the news

INSIDE

Today *The Tech* begins a new feature — restaurant reviews. This issue, the hearty fare of the Newbury Steak House is featured.

p2

Two new albums were released last week — Fleetwood Mac's *Rumours* and the Kinks' *Sleepwalker*. *The Tech* arts section covers both, as well as reviewing a very impressive concert by Queen.

p6

CAMPUS

A fire forced the evacuation of the thirteenth floor of Eastgate dormitory yesterday evening. There were no injuries caused by the blaze, which is believed to have started on a stove in an empty suite.

LOCAL

Boston cab drivers have again threatened to go on strike if Regal Limousine service from Logan airport is not delayed until implementation of the "share-a-cab" plan, which is designed to ease competitive pressure from the limousine service.

Boston Mayor Kevin White has refused to approve his own charter reform package after the City Council made major changes in the proposal on Sunday. The changes would have nullified several sections which were important to White, including a clause making the city elections partisan. White's opponents have charged that this move would help ensure his reelection.

NATION

A battle has begun in the Georgia legislature over whether to change the official state nickname from the "Peach State" to the "Peanut State."

Former CIA Director Richard Helms says he will name Henry Kissinger as the man who ordered him to lie before a Senate committee if he is indicted on perjury charges, according to the (Wilmington, Del.) *Sunday News Journal*.

Panama Canal treaty negotiations resumed yesterday as a US negotiating team flew to Panama City. Members of the team include Senior Ambassador Ellsworth Bunker and Sol Linowitz.

Transparent Horizons sculptor Louise Nevelson was named one of the ten best-dressed women in the world by 1500 fashion experts, *The Boston Globe* reported yesterday.

Press probable Carter science aide

By David B. Koretz
and William Lasser

Professor Frank Press, head of the Department of Earth and Planetary Sciences, will apparently be appointed Science Adviser to President Carter, reports in *The Washington Post* indicate.

In a telephone interview with *The Tech*, Press said that he had spoken with the President on Wednesday, Feb. 9, but that Carter had reached no decision at that time. He described the conversation as "agreeable," and added that Carter was "anxious to make the appointment soon."

Press refused to comment on reports in the *Post* which stated that he had been "apparently offered the job of science advisor, but did not immediately accept it."

A spokesman for the White House told *The Tech* that no decision on the position had been reached, and gave no indication as to when the announcement would occur.

"I haven't been appointed yet," Press emphasized, asserting that

Carter "has to make the next step." Press would not speculate on when the decision might be made, but noted that the President "is anxious to make an appointment soon. It is an important position."

MIT President Jerome Wiesner, who was Science Advisor in the Kennedy Administration, described the apparent nomination as a "good idea." He characterized Press as "well-qualified," with a "broad range of experience, and good judgment."

Robert A. Albery, Dean of the School of Science, agreed, adding that Press "would be a fine Science Advisor."

An editorial in *The Boston Globe* lauded "the mere prospect of such an appointment" as "a refreshing change from the over-concentration of the space age and the underemphasis of all science." The editorial pointed out that, since the appointment of James R. Killian '26 to the post "in the panicky atmosphere of early Soviet space successes,"

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Professor of Earth and Planetary Sciences Frank Press will probably be named Science Advisor to President Carter.

Sloan and Engineering get high ratings

By Drew Blakeman

The Alfred P. Sloan School of Management was ranked among the top ten business schools in the nation in a recent survey conducted by MBA Communications, publishers of several professional magazines.

MIT's Graduate School of Engineering was also rated by the firm as the best school academically. Institute Professor of Electrical Engineering Robert L. Kyhl noted that "This sort of thing isn't too unusual for MIT."

Sixty graduate school deans and 840 *MBA* magazine readers responded to the survey. The business schools were rated in the areas of academic quality, employment value, and executive programs (a chart with complete rankings accompanies this article). The Sloan School was rated

ninth in academic quality by the graduate school deans, who placed Stanford at the top of the list. They ranked the Sloan School as sixth best nationwide in both employment value and executive programs. Harvard was rated first in both categories.

William F. Pounds, dean of the Sloan School, said that his opinion of the *MBA* poll was that it was "kind of a limited sample." He felt that *Change* magazine's survey, which placed the Sloan School third behind Stanford and Chicago and ahead of Harvard, was a "better sample" of responses.

The 840 *MBA* readers appeared to have a higher opinion of the Sloan School than did the graduate school deans. The larger sampling of responses placed the Sloan School fourth in academic

quality behind first-place Stanford. The Sloan School was ranked seventh in employment value but second in executive programs by the *MBA* readers. Harvard was again rated as the best in both categories.

Abraham J. Siegel, Associate Dean of the Sloan School of Management, said that last year's *MBA* poll rated the Sloan School as the third best nationwide, but noted that the magazine was "a little bit concerned" with the methodology used to obtain the rankings. *MBA* prints a form and asks readers to mail in their responses.

Siegel said that he thinks the *Change* survey has more credence since it attempted to obtain an "appropriate distribution" of graduate school faculty. "When the answers are right," he commented, "you like the rankings," adding that he doesn't know "if there's really any difference

between fourth and fifth or fifth and sixth."

New Engineer magazine, published by MBA Communications, conducted a similar poll among 439 engineering school department heads. MIT was most frequently cited as being best academically, particularly in the fields of electrical and mechanical engineering. Berkeley was rated next, followed by Stanford University, the University of Illinois, the California Institute of Technology, and the University of Michigan.

James D. Bruce, Associate Dean of the School of Engineering, said that "in the last six to seven years there have been a number of surveys, all of which named MIT as the best." He commented that this "long-standing record" is "something we're very proud of," although he admitted that it is "hard to understand what these surveys measure."

News analysis

Humanities credits battle part of a much larger war

By Mark James

The topic is new, but the real issues are unchanged. Whether humanities courses should receive 9 or 12 units is the current topic of discussion (*The Tech*, Feb. 4), but the real issue is still the legitimacy of humanities courses, whether they are a "supplement" to be taken lightly with science and engineering or whether they have substance unto themselves.

On the surface, the question of credits is simple. Many professors and students in humanities courses, especially in the Literature section, believe that their courses involve no less work than the average MIT course, and therefore should receive the 12 units normally given for such a course.

Wellesley and Harvard subjects automatically receive 12 units of transfer credit, regardless of the actual work load. Many people argue that MIT humanities courses deserve equal standing with those from other schools.

Opponents of the change offer varied reasons for their views. Some professors feel that most humanities courses don't require the same kind of "hard work" as their "hard science" courses, and that this difference should be recognized when credit is given.

Some argue that the change would increase the total course load required in humanities, since the standard eight courses would consume at least 96 units instead of the present minimum of 72. Whether the actual work load would increase depends, however, on whether course content will change or, as proponents claim, the conversion is merely an attempt to more accurately reflect current work loads.

All these arguments hinge on the premise that the present system of units makes sense at all. Many students and quite a few professors feel that it doesn't. The differences in work load between many so-called 12 unit courses is

(Please turn to page 3)

Poll of 60 Graduate-School Deans

Academic Quality	Employment Value	Executive Programs
1. Stanford	Harvard	Harvard
2. Harvard	Stanford	Stanford
3. Chicago	Chicago	Chicago
4. Carnegie-Mellon	Penn (Wharton)	Michigan
5. Penn (Wharton)	Michigan	Virginia (Darden)
6. Michigan	MIT (Sloan)	MIT (Sloan)
7. Northwestern	Carnegie-Mellon	Columbia
8. UCLA	Northwestern	Penn (Wharton)
9. MIT (Sloan)	Dartmouth (Tuck)	Northwestern
10. Dartmouth (Tuck)	Columbia	UCLA

Poll of 840 "MBA" Magazine Readers

Academic Quality	Employment Value	Executive Programs
1. Stanford	Harvard	Harvard
2. Harvard	Stanford	MIT (Sloan)
3. Chicago	New York Univ.	Stanford
4. MIT (Sloan)	Penn (Wharton)	Northwestern
5. Penn (Wharton)	Columbia	New York Univ.
6. Michigan	Chicago	Columbia
7. Northwestern	MIT (Sloan)	UCLA
8. Carnegie-Mellon	Northwestern	Chicago
9. Columbia	Michigan	Penn (Wharton)
10. Dartmouth (Tuck)	Dartmouth (Tuck)	Michigan

Restaurant review

Newbury's offers good food close at hand

By David B. Koretz

Newbury's Steak House, 94 Mass. Ave., Boston

If you've been looking for a reasonably priced restaurant with good food and within walking distance, Newbury's Steak House, located across the Harvard Bridge just half a mile from MIT, could be the answer.

An excellent salad bar, stocked with consistently crispy lettuce and a dozen other goodies, comes free with any dinner, for \$2.75 alone or \$1.50 with a sandwich. (Dressings, however, were disappointingly watery.) Also limitless is the delicious homebaked bread,

which is generally fresh and warm.

Entrees, of which there are over twenty, range from \$3.95 for broiled liver or half-pound chopped steak, to \$6.75 for any of several dishes, including sirloin steaks and baked stuffed shrimp. Lower priced selections include king-size chopped sirloin steak, which stood out with a huge (more than half a pound) portion for \$4.25, and the \$4.95 roast beef *au jus*, which is enough to feed the hungriest person.

A word of caution: Newbury's tends to undercook their meats, perhaps to hurry things along in

their crowded kitchen, but if you order a steak a little more well-done than you want it, it will come out just fine.

The specialty of the house, and rightly so, is the "Bone In" sirloin, at \$6.75. This sizeable chunk of beef — probably about a pound — was excellent, not tough for the thickness, and well worth the price.

We also tried the tenderloin tips *en brochette*, which at \$5.50 provided an amazing amount to eat. Unfortunately the rice *pilaf* was dry and barely identifiably as *pilaf*. Another personal favorite was the London broil in a slightly

congealed mushroom gravy, a bargain at \$4.95. The portion, however, was uncharacteristically small.

Each *a la carte* entree comes with choice of potato, but the baked potato is unfortunately baked in foil, leaving the skin a bit soggy. The mashed potatoes seemed homemade, as did the French fries. For an extra dollar, the complete dinner includes soup or juice, a beverage and dessert. Unless you're very hungry, though, the regular meal should be more than enough.

Newbury's also features a wine list that, though short, is widely varied with red, white, and rose wines from all over the world.

The prices do tend to be a little high for the type of restaurant; markup is about forty per cent over retail.

Desserts were nothing special. Baby Watson cheesecake and Damian's ice cream — a natural ice cream made in Vermont — were the highlights, and pies (apple and Boston cream) were good but not homemade. Each is \$.75, except for the \$1.00 cheesecake.

Newbury's is not the place to go if you're looking for a gourmet meal or a romantic evening. With a full line of steaks and seafood dishes, good salad and bread, and pretty waitresses, at Newbury's you'll get a fine, hearty meal with prompt, though relaxed, service.

First frat symposium held here

By Dave Dobos

(Editors note: Dave Dobos '77 was Student Coordinator for the first MIT Fraternity Symposium.)

The MIT Interfraternity Conference (IFC) in conjunction with the Alumni IFC sponsored the first Fraternity Symposium last Saturday on the Institute campus. Some 200 undergraduates and alumni were in attendance.

The Symposium's program included three featured speakers and three sessions of one-hour seminars and workshops on different aspects of fraternity life. Seminar leaders were drawn from national fraternity representatives, MIT career professionals, alumni, and undergraduates.

The purposes of the event were to strengthen individual house operations and to help members evaluate and clarify the fraternal bonds that hold their living groups together. To accomplish these ends, the IFC and AIFC provided resource people and materials and a setting for the ex-

change of ideas between seminar participants.

The Reverend S. George Dirghalli, a national officer of Lambda Chi Alpha, delivered the keynote address. He challenged fraternity members to seek the fullest from the fraternity experience and not to be stifled by traditional modes of dealing with opportunities.

Undergraduates and alumni chose from eight afternoon workshops. Seminar topics included alumni relations, treasurer's problems, public relations, rush, physical operations, pledge education, and leadership.

The Symposium concluded with presentations by Chancellor Paul E. Gray '54 (Phi Sigma Kappa) and IFC Chairman Rich Maebius '77 (Sigma Phi Epsilon). In his remarks, Gray stated that "MIT needs and values the fraternity system."

Gray went on to say that the fraternity experience does not end with graduation and that the

maturing experiences of fraternity life help individuals in their interpersonal relationships during their professional careers.

Maebius outlined five goals to which the MIT fraternity system should commit itself. They included assuming more of a leadership role in helping to solve campus problems, reaching out to the community and actively demonstrating the advantages of fraternity living, continuing to strive for fraternity ideals, the non-revival of hazing, and a renewed commitment to brotherhood. He concluded by saying "As an experience in living and in learning, fraternity life is still unrivaled."

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notes

* R/O '77 needs chairpeople and workers. If interested, stop by the FAC, 7-105, and leave your name, address and phone number. Descriptions of the various committees are available.

* The Urban Legal Studies Program is now accepting applications for twelve-week summer positions in law related fieldwork, with an approximate stipend of \$1200 to \$1500. Information about the program is available at the librarian's desk in the Student Center Library at MIT and at the Clapp Library at Wellesley.

* The Political Science Department is sponsoring an internship program for MIT students who want to work in Washington this summer. For information, contact Professor Jeffrey Pressman, E53-421, x3-2449. Applications are due before March 21, 1977.

* The second annual Ebony Affair, a semi-formal dance, will be held Saturday, March 5, at Lobdell dining hall, from 10pm to 2am. The dance will have a live band, BYOB and food. For tickets, contact the Graduate Student Office. The event is sponsored by the Black Graduate Student Association.

* The Class of 1978 is sponsoring "A Night in the Tropics," a party at the Burton Dining Hall on Friday, Feb. 18, at 9:00pm. Tickets are \$1.00 and will give you a chance at a raffle for a trip for two to Bermuda, from Feb. 19-22. You must be present at the drawing at 11:30pm to win. The prize includes airplane tickets, three nights in the Bermudiana Hotel, breakfasts, dinners, and \$100 spending money. The winner or guest must be an MIT student.

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Press likely Carter science advisor

(Continued from page 1)

those who followed him "were all preoccupied by the national drive... to put a man on the moon."

Press, who was born in Brooklyn, N.Y. in 1924, was graduated from City College of New York in 1944 with a bachelor's degree in physics. He received his master's and Doctor of Philosophy degrees in geology from Columbia University.

He is chairman of the Committee on Scholarly Communications with the People's Republic of China, and has served on the President's Science Advisory Committee and on NASA's Lunar and Planetary Mission's Board.

In 1965, Press joined the MIT faculty after having served as director of the Seismological Laboratory at the California Institute of Technology, where he conducted research on the detection, measurement and analysis of seismic data.

Playing an important role in

the fields of marine geophysics, earthquake prediction, lunar science and nuclear test detection seismology, Press performed early earthquake studies and measured the thickness of the earth's crust beneath oceans and continents.

He has also been instrumental in the study of Antarctica, proving during the International Geophysical Year (1959-60) that it was in fact a true continent and not, as had been thought, a floating island of ice. In the same year, Antarctic explorers named a newly discovered peak "Mt. Press" in his honor.

He became head of the Department of Geology and Geophysics at MIT in 1965. Following his lead into the areas of planetary sciences and oceanography, the department was renamed the Department of Earth and Planetary Science in 1971.

The recipient of numerous awards and honors, Press was named the first Robert R. Shrock Professor of Earth and Planetary Science in 1970. One year later he

was awarded the Gold Medal of the Royal Astronomical Society. He has received a public service award from the Department of the Interior, the Distinguished Public Service award from NASA, and was named California Scientist of the year in 1960.

Press has been honored by his academic colleagues with the Columbia University Medal for Excellence in 1959, the Townsend Harris Medal of the City College of New York in 1962, and the MIT James R. Killian Faculty Achievement Award in 1976 for "extraordinary professional ac-

complishments."

In addition to writing four books and over 140 scientific articles, Press has been associate editor of the *Journal of Geophysical Research* and of the *Transactions of the American Geophysical Union*.

He is a member of several professional organizations, including the American Association for the Advancement of Science, the American Association of University Professors, the American Geophysical Union and the Royal Astronomical Society.

Headquarters

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Units battle basic

(Continued from page 1)

so great that the distinction between 9 and 12 units seems petty to many. Some professors would advocate a shift to a system of "whole courses" and "half courses."

The controversy, however, hinges on a more basic point — should humanities courses be treated as are other courses, or should they receive special treatment because of their unique position at MIT. Most people at MIT seem to argue for special treatment, although for different reasons.

Those in the humanities want assistance in building their programs in the face of often disinterested faculty and students.

Many of the science and engineering faculty also want special treatment for humanities. They wish to prevent those courses from diverting the time of students from the study of what the professors feel is the more important study of their technical disciplines.

The dispute over humanities at a technical institute is neither new nor confined to MIT. Worcester Polytechnic Institute has recently begun a new program designed to replace the traditional large dose of science and engineering plus small dose of humanities, with an integrated program which emphasizes the humanistic implications

of technical work.

This may not be MIT's answer, but the present system leaves many questions unanswered.

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MIT cable television needs re-evaluation

By William Lasser

Despite the excitement and general optimism which has accompanied the MIT cable television system since its inception over three years ago, the project remains undeveloped, uninspired and unwatched.

The cable has never even begun to realize the potential which has long been forecast for it. There are currently fewer than ten regularly scheduled programs each week, and the sporadic specials which are broadcast at unspecified intervals are uniformly devoid of imagination and innovation.

For most students, the entire cable system is represented by the "MITV News," which is by far the most popular program aired on the system. The productions of the Video Club, the Film Section and the Center for Advanced Visual Studies have gone virtually unnoticed.

It is at present very difficult for the average student to view cable programming: gaining access to the system is a major obstacle. For a majority of students, the only places where the cable can be watched are the lobbies of buildings seven and ten. Some cable-equipped televisions can be found in the Institute dormitories, and, in a small number of cases, students can hook their own sets up to the cable.

However, for most, viewing the cable involves the unpleasant task of braving crowded, noisy and drafty hallways. Under these less-than-optimal conditions, there is little reason to expect an increase in the cable's audience.

Moreover, most members of the MIT community are hardly aware that the cable exists in any form other than the weekly news show. Few know that the cable schedule is printed on a regular basis in *Tech Talk*, and even fewer realize that the production facilities of the cable system are open to the community, and that anyone can become active in producing and broadcasting his own show.

Even if the problems of logistics and publicity were overcome, there would remain the stark reality that there is little of interest to be watched. Besides the news, there is a weekly sports show, at least two magazine-type shows, and a variety of taped lectures, seminars and problem sessions. Recent specials have included basketball games and the IAP College Bowl, and there exist archives which contain a variety of interviews, sporting events and LSC lectures.

It will not do to repeat old events; the cable cannot serve only to replay concerts and lectures which some may have missed. It must provide something which no other medium — on or off campus — can provide. The live analysis of last year's primaries by members of the political science faculty represents one of the rare attempts to provide such a service.

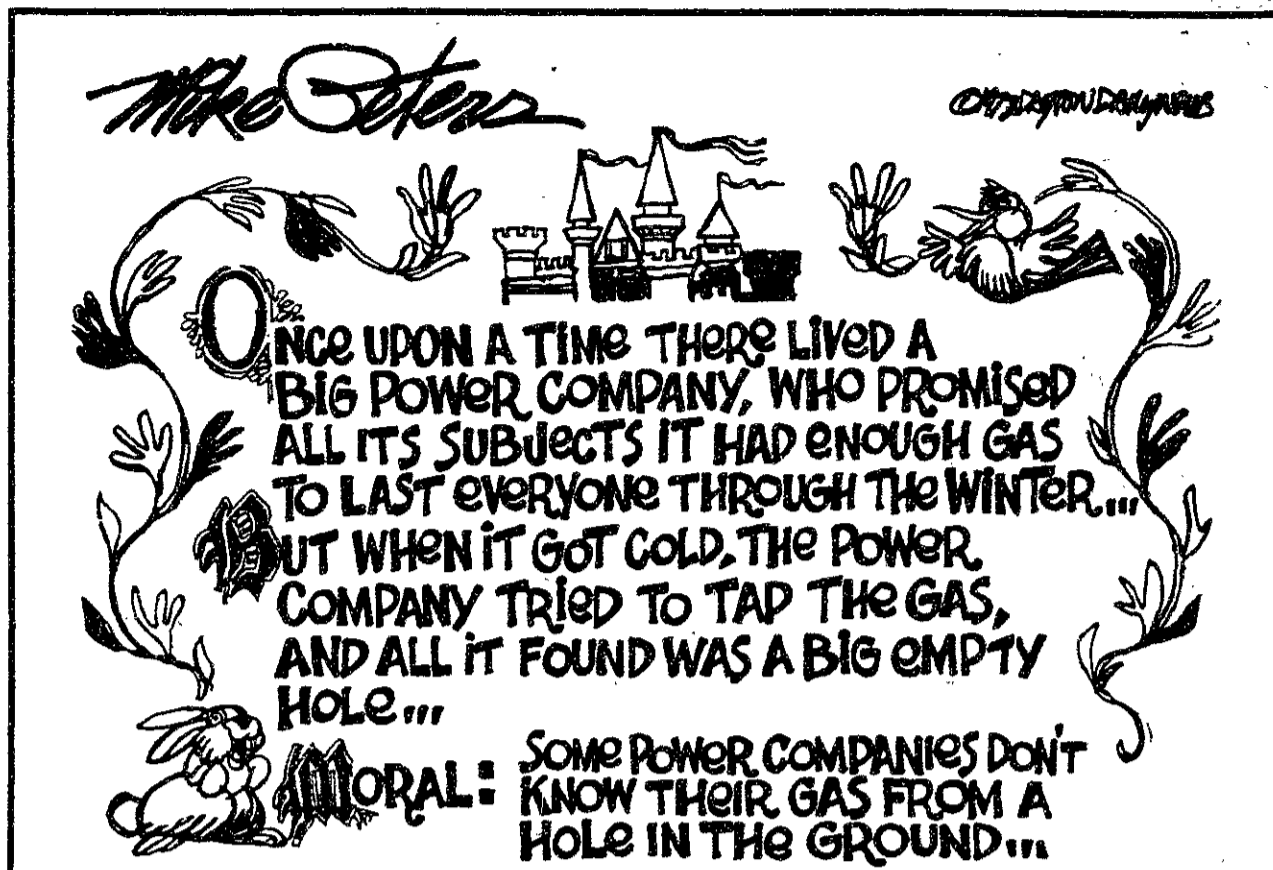
In considering what types of programming the cable should provide, it is imperative that policy-makers consider the specific audience which they are attempting to reach and serve. MIT students do not have a great deal of free time; they watch television infrequently, and, when they do, they find their time best spent viewing commercial fare.

Thus, the cable must provide excellent entertainment or outstanding news coverage, or it must be relegated to serving as purely an educational tool. It has a clear use in airing 8.02 lectures or problem sessions — especially if a system could be arranged such that the viewer could select and view a particular lecture any time he wished.

But with respect to providing enjoyment, major changes in the cable are necessary. Perhaps late-night programming would prove successful. Shorter shows — even only five or ten minutes — would be helpful. If the acquisition of feature movies or old television programs were possible, they could be included.

Each campus medium exists to fill a specific void. The cable system must first determine the gap which it is capable of filling, and then take definite steps to do so. Until the MIT cable system acknowledges that at present it provides little appeal to its potential audience, it is doomed to suffer a life of anonymity and ineffectiveness.

here
and
now



Is W. Europe defensible?

By Thomas J. Spisak

By a carefully contrived set of false premises and with facts warped to meet ideology, an unholy alliance of discredited Cold Warriors and mercenary arms dealers is running around Washington trying to convince the Carter administration that the sky is about to fall on Western Europe.

ming" equipment.

The Warsaw Pact countries do enjoy an absolute numeric superiority in manpower, tanks, and guns. What the hardliners fail to consider is the probable political reliability of the Soviet bloc in comparison with the Western alliance. The Czechs, Poles, and Rumanians simply cannot be trusted to give

characterized by meticulous, detailed planning on higher levels and allowing little room for initiative on the part of their junior officers. By contrast, American junior officers are encouraged to show initiative, dash and daring within a decentralized, flexible command structure.

The Soviet up-front philosophy gives them some advantages in the first assault but makes replacing the inevitable combat loss slow and clumsy. The long American logistic train does remove men from the frontlines but speeds replacements, spare parts, and ammunition to the combat units.

The advantages of the American command and logistics systems were shown in the Middle East in 1967 and 1973. The Israelis, fighting with American equipment and tactics, and facing about the same numeric disadvantages as NATO does in Europe, soundly defeated the Egyptians and Syrians who employed Soviet arms and doctrine.

If the NATO navies can protect the Alliance's 3000 mile supply line, and if its air forces can deny the Soviets air superiority, NATO should be able to protect Western Europe from Russian attack as long as the will to do so remains.

perspectives

According to recently leaked intelligence estimates, NATO is outnumbered in men, tanks and guns and, unless the United States immediately undertakes a massive program of arms procurement, the Russians are going to roll across the Elbe and jack up the price of Volkswagens.

These "hardline" analysts argue from shady premises to dubious conclusions. The conventional balance simply cannot be quantified as easily as they propose. As individual weapons systems, the Soviet and American arsenals are approximately equal. American fire control and tactical communications systems are superior to the Soviets'; the Russians, in turn, have better armored personnel carriers and electronic warfare and "jam-

wholehearted support to a Russian ground attack, while the United States can count on its NATO partners to resist such aggression, if only out of self-interest.

The non-Soviet Warsaw Pact countries have each shown themselves restive under Russian domination. The Red Army would probably have to leave garrisons in each to ensure their adherence to Soviet direction, thus reducing the number of troops NATO would have to face directly.

Besides political difficulties, the Soviets face problems with their command structures and logistical mechanisms, that is, how their troops are led and fed.

The Russian command structure is rigid and centralized,

The
Tech

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feedback

Dining 'specials': Newspeak?

To the Editor:

Q. When is a special not a special?

A. When it is a Dining Service lunchtime 'special.'

Today, the "special" was spaghetti (95c), vegetable (25c), roll and butter (10c), dessert (20c) and beverage (20c) for \$1.76 plus tax. Some special. Anybody with a TI-30 calculator can add that up and see that the *a la carte* price of that lunch comes to only \$1.70. One of the cashiers complains that when the main course on the special sells for less than \$1.00 *a la carte*, he/she (I don't want to get him/her into trouble) has to add up the items *a la carte*, and that after several complaints by him/her, the management still insists on putting such items on the special from time to time.

I wonder if this particular cashier is the only one who is fair to Dining Service's customers in this way. Also, why is it that Din-

ing Service continues to subvert the meaning of 'special' in this way? If the intent is to charge more for a 'special' than for the *a la carte* version of the same thing, then I would say that this intent is a deliberate fraud and a swindle. If the intent is merely to feature spaghetti for lunch, I would suggest that someone in charge is not

very bright and probably should be fired. Of course, it could just be a linguistics experiment. Such experiments are not new, however; I believe that the language which Dining Service is attempting to use is called Newspeak.

Alan Cassel G
February 8, 1977

IAP dance class thanked

To the Editor:

"Thank you" to all the people who made it to our "Disco Dancing" class over IAP. I nearly had a nervous breakdown before each class, and it took me a couple of hours to stop shaking after; but it was worth it to know there's at least a few hundred of you out there who also think this place needs livening up.

Many of you have been asking

me variations of: "Well, what now?" Well, I have some ideas, and so do you. So, we'll have a "meeting" Thursday Feb. 17 at 7:00pm in Rm. 400 of the Student Center to figure out what we're going to do to make MIT a happy, healthy place to be. And it's about time. Show up, and until then... keep smiling.

Peter Berke '77
and Disco-Tech

opinion cont.

feedback Tuition: 'incredible'

To the Editor:

An incredible tuition increase has been announced and it is now time for the students to react. The Administration has justified the 8.75 per cent increase because of inflation. But, has the students' ability to pay risen by 8.75 per cent since last year? Was this facet ever even considered?

The insensitivity of the Administration towards current student needs is further demonstrated in a statement made by Paul Gray while explaining the budget last year, "I'm not worried about the next five years of the Institute, what I'm concerned about is where we'll be in 20 to 40 years." (*The Graduate*, April 8, 1976). This indicates a preoccupation on the part of the Administration towards long term goals and a willingness to let students "bite the bullet" over the short-term in order for these goals to be achieved. The Administration must adjust their goals concerning the Institute so that stu-

dent interests are taken more into account.

Those of us on the U.A. Committee of the Institute Budget have been studying the situation for quite some time and our report will be issued shortly. There is no doubt that in the recent past, costs have risen swiftly and that MIT has tried vigorously to adjust to this problem, but a \$350 increase in tuition is *not* the only answer. Tuition hikes have been fought successfully at other schools and there is no reason why MIT should be any different. We must make our voices heard.

Nino Pedrelli '78

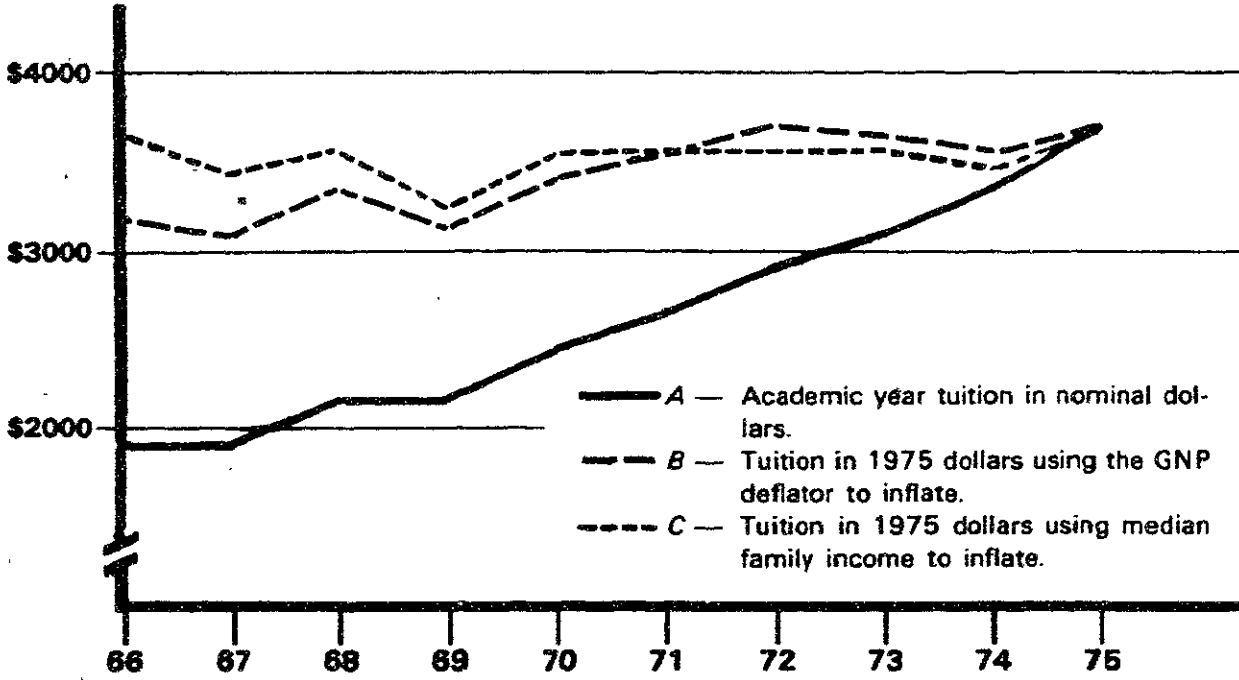
Co-Chairman,

U.A. Committee of the Institute Budget

The Tech welcomes Letters to the Editor. Correspondence should be typed, triple-spaced, and not exceed 200 words. Unsigned letters will not be considered for publication, although the name of an author will be withheld on request.



IT'S NOTHING AT ALL LIKE ICE NINE. WHY DO YOU ASK?



The information provided in the above chart was included in Chancellor Gray's letter.

Gray defends tuition increase

To the Editor:

In your issue of January 28, 1977 you refer to the increase in the tuition rate over the past decade. The growth from \$1900 in September 1966 to \$4350 in 1977 — a factor of 2.3 — is indeed startling.

However, most of this growth reflects continuous declines in the value of the dollar caused by inflation; there has been virtually no real growth in the tuition rate, and tuition still covers only about half of the per-student cost of an MIT education, as it did in 1966 and in 1956.

The attached graph shows, through the year beginning in September 1975 the tuition rate in nominal dollars (Curve A), in 1975 dollars using the GNP deflator to inflate prior years' figures (Curve B), and in 1975 dollars using median family income (Census data, wage earner 35-54) as the basis for inflating prior years' figures. Comparison of these curves shows that while nominal tuition has grown in recent years at a compound rate of 8.3 per cent per year, it has grown much less rapidly in real terms. More precisely, between 1966 and

1975 tuition grew by only \$500 (1975 dollars) when the GNP deflator is used to correct for inflation, and was virtually unchanged in its relationship to median family income.

Paul E. Gray '54

The General

Buster Keaton

with John Kiley at the Holt Kemp organ
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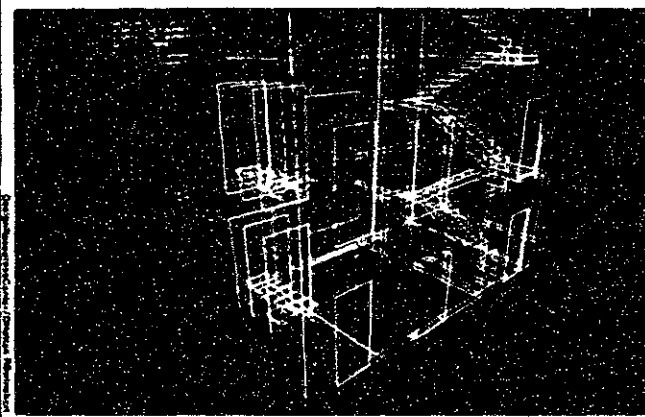
Tickets are available at the LSC office,
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a time for silence and
a time for speech;
a time to embrace and a time to
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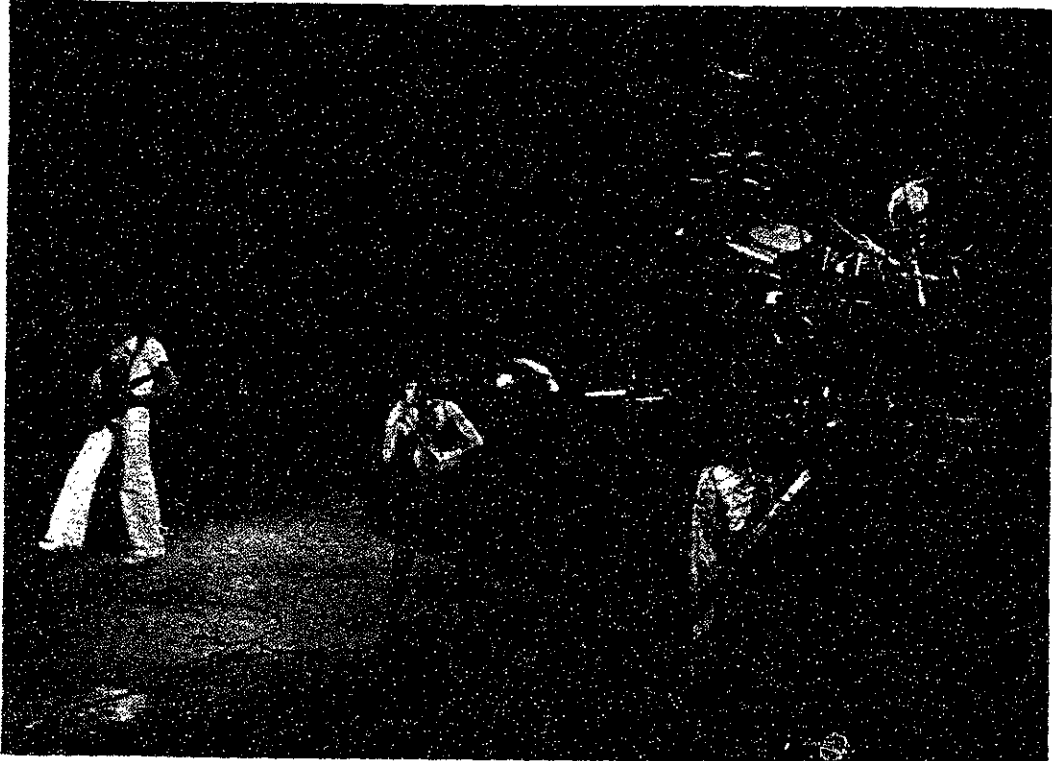
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A night at the Garden: Queen in concert



Queen performs at the Boston Garden (left to right: John Deacon, Freddie Mercury, Brian May, and Roger Taylor)

Record review

Kinks still as good as ever

Sleepwalker — Kinks (Arista)

By Claudia Perry

The first of their recent albums not based on a single concept, the Kinks' *Sleepwalker* shows that lead singer songwriter Ray Davies has lost none of the wit that has characterized his past work. The album is also a departure from the sloppy production that had been synonymous with the Kinks since Ray began doing his own mixing-board work in 1969.

The break with the past has not been total. The songs are reminiscent of those on *Village Green Preservation Society*, the first of the Kinks' concept albums. "Life on the Road" is comparable to "Do You Remember Walter," as both detail longing to escape from everyday life. It seems as if "Do You Remember Walter" was written before "Life on the Road." "Walter" portrays a person who has escaped and his unsuccessful attempts to reestablish contact with those he left behind. "Life on the Road" chronicles the desire to leave mundane existence behind.

Most of the songs on the album deal with flight from reality. Yet nearly all of them suggest that this may not be the course to take. In "Jukebox Music," an accurate description emerges of a girl who invents her fantasies from the songs on the jukebox. Ironically, Ray reminds us that "it's only jukebox music."

Davies does have his self-righteous moments. "Mr. Big Man," easily the least distinguished cut on the disc, is nagging and tuneless. It exhibits a degree of hypocrisy unequaled since the release of "Mr. Pleasant" in 1968.

The next cut, "Brother," the closing track on the first side, is indeed a sibling affair. It is considerably more successful than its predecessor. Ray's brother and the group's lead guitarist Dave Davies provides some beautiful falsetto harmonies. Dave has done this on many Kinks' songs but this album marks the first time that the production has displayed

them adequately.

"Life Goes On," the final song on the album, is the most powerful. Continuing with the escape theme, the method suggested is suicide. Ray's mordant wit resurfaces here as he offers several breezily unconvincing reasons for living. The Kinks sound better than they have in quite some time. The arrangement is flawless and for once the band has no trouble sticking with it.

The Kinks' recording history is very uneven. Their latest change of label seems to be a continuation of the relative calm of their last days at RCA. Ray Davies and the rest of the band don't have worry about non-musical matters now. *Sleepwalker* is amazingly relaxed in this regard. Perhaps this relaxation will lead to more consistent efforts from the group.



By Claudia Perry

Queen showed a sell out crowd at the Boston Garden Wednesday night that their concerts can be as amusing and elegant as their studio work. From the first rush of fog to "God Save the Queen," their show was an impressive combination of technical wizardry and wryly sophisticated theatrics.

Opening act Thin Lizzy contributed an excellent set, but their part of the evening was soon forgotten. A heavy-metal band whose brand of simple excitement is pleasant if not memorable, Thin Lizzy seems to have all of the things necessary for success. Lead singer/bassist Phil Lynott is quite attractive. If he ever stops carrying his bass and begins to play it, there may be improvement in Thin Lizzy's sound.

There was little room for betterment in Queen's set. Although known for their elaborate production numbers like "Bohemian Rhapsody" and "Somebody to Love," Queen proved that they can rock with the best of them. The live version of "Somebody to Love" was an excellent example of their concert approach. Stripping it of its complicated harmonies, it focused on Queen's ability as musicians instead of producers.

Lead guitarist Brian May provided a good deal of the musical excitement. His solo during "Brighton Rock" was more than incredible. Having built his guitar and most of the sound-altering equipment, he played multi-part harmony for a time that seemed all too short for the enraptured audience. Inventive and technically splendid, May is one of the best guitarists in rock today.

Lead singer Freddie Mercury is vocally no less inventive than May. His vocal-delay feats during the link between "White Man" and "Prophet Song" were as arresting as May's guitar work. Mercury also dis-

tinguished himself with his performance on piano during "You Take My Breath Away."

The visual component of Queen's show is as awesome as their music. Their effective use of lighting was especially evident during the first encore. Fog filled the stage for "Now I'm Here" as the band reappeared. The second song in the encore, "Stone Cold Crazy," was enhanced by the judicious use of strobe lights.

But all the visuals did not rely on lighting. Freddie Mercury's animated stage antics were campy. His best moment came at the beginning of the second encore. Dressed in a kimono, he strutted his way to the front of the stage. While belting out "Big Spender," he strip-teased down to his red-and-white striped shorts with red suspenders. For the rest of the encore, Queen performed Elvis Presley-vintage material, with Freddie just as exuberant as if this were the first show of the tour.

Though Mercury's antics were noteworthy, bassist John Deacon and drummer Roger Taylor should not go without mention. Taylor took his mandatory solo but its lack of length kept it interesting. Deacon had no such moment. In fact, only part of his hit, "You're My Best Friend," was played as part of a medley.

Queen's concert was anything but standard rock'n'roll. Guitarist Brian May and lead singer Freddie Mercury are the most noticeable members of the group. Bassist John Deacon and drummer Roger Taylor provide able if not flashy support. Their technical excellence, and musical eclecticism places them far above most bands on the scene today. Wednesday was just an example of their close attention to detail. More than a concert, it was a theatrical event that showcased their considerable musical talents.

Record review

Rumours, new Fleetwood Mac not bad, but more of the same

Rumours — Fleetwood Mac (Warner Brothers)

By Robert St. James

Fleetwood Mac, in their new release, *Rumours*, have repeated the winning ways that made their last album, *Fleetwood Mac*, a huge success. In fact, they have even improved since that chart-topping album was released nearly two years ago.

The eleven songs on *Rumours* are strong throughout, giving the group's individual members the chance to display the talent that has catapulted them from obscurity as a blues band to the forefront of the pop music scene.

A major disappointment, though, is the absence of "Silver Spring," the flip side of the single "Go Your Own Way."

A strong musical foothold is established by the founders of the group, John McVie and Mick Fleetwood. Their consistency creates the firmness pervasive in *Rumours*, and McVie's handling of the bass line is particularly noteworthy.

The other three members of the group are guitarist Lindsay Buckingham, Christine McVie, John's estranged wife, on keyboards, and Stevie Nicks, who sang the smash hit "Rhiannon." The three alternate on vocals.

Buckingham's fine guitar work

highlights many of the cuts on *Rumours*, notably "Never Goin' Back Again," a short tune he wrote. His vocals on "You Make Lovin' Fun" and "Oh Daddy" are reminiscent of the powerful "World Turning" from *Fleetwood Mac*.

Stevie (Stephanie) Nicks does the lead vocals on six tracks, and wrote two others. "Dreams," one of the best songs on the record, was written by Nicks and features a good performance by Buckingham and a superb vocal by Christine McVie. "Dreams" is the sort of song that stays with you for a while.

Christine McVie is probably the outstanding performer in Fleetwood Mac. Voted Female Vocalist of the Year in Britain twice while lead singer for the blues band Chicken Shack, McVie shows off her talent on "Gold Dust Woman" and "Dreams." Her skill at the keyboards is also evident on "Don't Stop," the group's current hit "Go Your Own Way," and "Songbird," a quiet melody in which only her piano playing backs up Buckingham's vocals.

The success of Fleetwood Mac, as well as their ability to endure for fifteen years in the changing music scene, can be attributed to their songwriting talents, performing ability, and the experience of McVie and drummer Fleetwood.

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sports cont.

M swim team gets dunked

By Gregg Stave

The MIT swim team scored decisive victories over Boston University, 84-27, and Norwich, 71-42, last Wednesday in a double dual meet at BU. They then fell to Babson College, 68-45, on Saturday in a very disappointing contest, bringing the team record to 6-3.

Boston University provided little competition for the Beavers but Norwich had to be taken more seriously. Looking forward to tougher opponents later on in the season, MIT practiced hard on Tuesday before the double dual meet and swam sluggishly. As a result times were slower than expected. The 400-yard medley relay team of John Dieken '80, Tim Ramsey '79, Allen Morris '80 and Greg Floro '79, won the first event and MIT stayed in front throughout the entire competition. Dieken also finished first in the 200-yard individual medley and the 500-yard freestyle. Captain Sam Senne, who also won the 50-yard freestyle, won the 100-yard freestyle by coming back in the last 25 yards, after missing his

third flip turn.

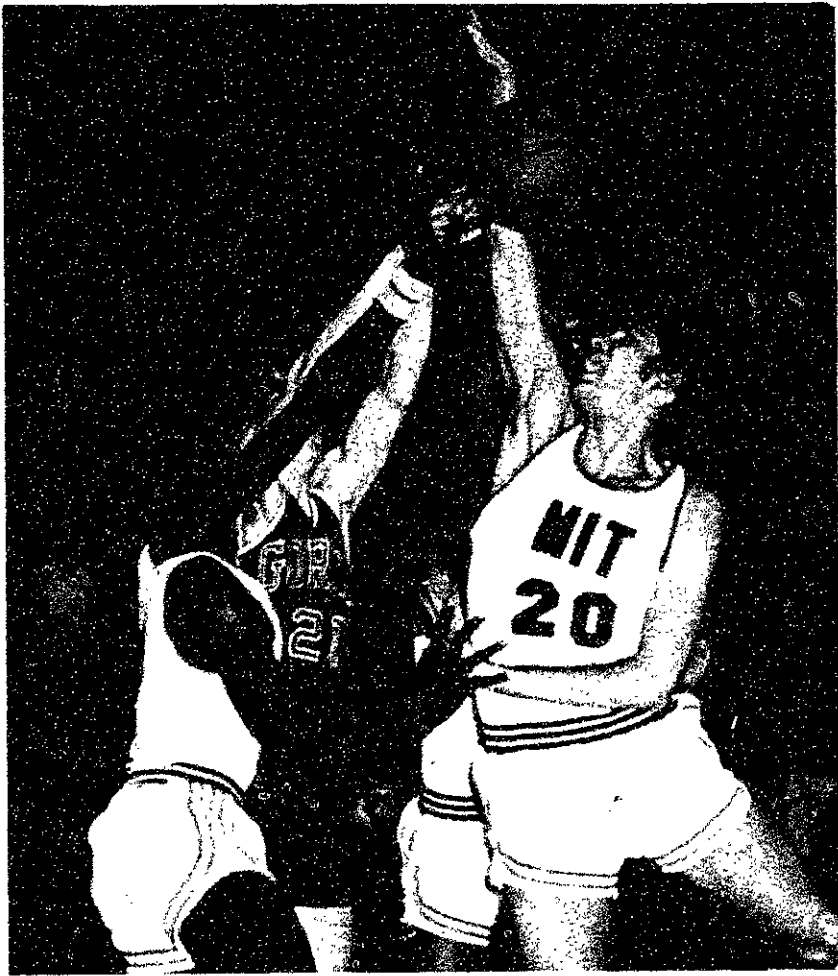
Other important victories were recorded by freshman John Bradstreet in the 200-yard freestyle and by Ramsey in the 200-yard breast-stroke.

In addition to solid performances off the blocks, MIT has been fortunate to have had excellent performances on the springboards. Freshman Josh Lindsay became the fourth MIT diver to qualify for the NCAA Division III Nationals when he easily exceeded the required point total for eleven dives in the Wednesday contest. Sophomore Bob Hone, junior Paul Snyder, and senior Rick Ehrlich had all qualified previously.

Last Saturday the Beavers would have been better off staying home. What should have been

a very close contest turned into a decisive win for Babson. MIT had trouble finding their way all day, starting when the bus carrying the team to Babson got lost. The few bright spots for MIT included Dieken's win in the 1000-yard freestyle, Senne's victory in the 100-yard freestyle, Ramsey's performance in the 200-yard breast-stroke, and Hone and Snyder in the diving events. Babson, in contrast, posted no surprises but swam a consistently good meet and emerged victorious.

Today, MIT hosts the Greater Boston Collegiate Athletic Association meet at the Alumni Pool. Diving events are being held in the morning and swimming events will run from 1:30pm through the evening.



Howard J. Runge '78 (20) tries to block a shot in Saturday's game against Gordon, as Keith F. Giamportone '79 looks on.

Roundup

Grapplers, cagers triumph

By Gary S. Engelson

MIT's varsity wrestling team, still under .500 for the season posted a tremendous win over Boston College Wednesday, Feb. 2.

Sophomore Norm Hairston, wrestling in the 118-pound class, pinned his man to remain undefeated for the season. Senior co-captain Steve Brown at 150 pounds also pinned his man to lead

the Engineers to the 35-12 win. The Engineers added a win and a loss on Saturday, Feb. 4, defeating Williams 35-14, but dropping one to Penn 12-27.

The men's fencing teams split their matches Saturday. In home meets, the varsity crushed Trinity 19-8, but the JV lost 9-18 to Colgate.

Displaying a balanced, potent attack, the men's basketball (6-10) team routed outmanned Gordon 99-56 at Rockwell Cage Saturday night.

Shooting a blazing 55 per cent from the floor (MIT's fifth game over 50 per cent in the last seven) and hitting 25 of 41 foul shots, the Beavers proved to be too much for the visiting Gordon squad to handle.

John Cavolowsky '77 (22 points), Peter Maimonis '77 (21 points), and Ray Nagem '80 (21 points) paced the Beaver attack, and reserve center David Mika '79 pulled down 16 rebounds to lead the home five.

MIT takes on NCAA tournament hopeful Suffolk at Rockwell Cage tomorrow night. With a strong, high-scoring frontcourt, the 12-4 Rams promise to be one of the Beavers' toughest opponents, this season. Game time is 8:15.

Coming up in IM sports is Saturday's weight-lifting competition. Teams from the various living groups as well as individuals will compete in the weightroom in the du Pont gym beginning at 12:00 noon.

Fencers foil foes

By Mark J.T. Smith

The men's varsity fencing team may be on their way to winning another New England championship. This weekend's competition was an excellent indication with a close victory over one of the Ivy League's strongest teams, Cornell. The following day, MIT trounced Trinity College, a top contender for the New England championship, 19 to 8. Robert Shin '77 and Richelieu Hemphill '78 took two bouts each in sabre and foil, respectively. Richard Reimer '77, foil, and

Mark Smith G, sabre, both won all three of their bouts. Outstanding was the epee team, with captain Arlie Sterling '77 and freshman John Rodrigues winning all three of their epee bouts. Bill Darling '80, the third man on the epee squad, won two bouts, leaving the epee team with an 8 to 1 victory.

The club also defeated Brown 14-13 and Holy Cross 18-9 last week. Coach Eric Sollee is optimistic about a strong MIT showing at the Easterns in March.

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Track bops Bates; von Borstel breaks record

By Dave Dobos

Avenging last year's shellacking in Lewiston, the MIT indoor track team annihilated Bates 77-36 here Saturday in its dual meet finale. The Beavers end the season at 8-1.

In what was billed as a close contest, MIT captured nine of 13 events. Thinclad athletes set two records and established several personal bests, while discouraging a highly-touted Bates squad that also enjoyed a number of good performances.

Bates high jumper Pete Kipp leaped a fine 6'5-3/4" in that event. A jump that high can sometimes win a major championship. Against MIT, though, he had to settle for third. Reid von Borstel '78 broke the school high jump record for the third time this season, clearing an amazing 6'7-3/4". Teammate Jim Turlo '80 set a mark of his own, shattering the existing freshman record by nearly three inches with his 6'6-3/4" effort. Turlo also took second in the long jump and hurdles to score nine points.

Norm Toplosky '80, who had only run competitively for the first time in his life in the

Northeastern junior varsity meet earlier in the week, pulled a stunning upset in the 600-yard run. He was still ten yards behind the leader, Bates' Will Coumbe, when he passed teammate Jim Dunlay '79 with a lap to go. Toplosky then accelerated and overhauled his surprised foe at the tape.

Bates distance ace Paul Oparowski thought that he had found the correct strategy during the mile, staying with senior co-captain Frank Richardson and letting MIT junior Chris Svendsgaard forge into an early lead. What he had not figured on was Richardson's superior stamina and Svendsgaard's talent. The blonde junior did not give up the lead until the last lap. By then, Oparowski had been left a distant 30 yards behind.

Leading scorer Rich Okine '77 captured three events, two of which he typically wins: the hurdles and the dash. Okine had been practicing the triple jump for only a week, figuring to compete if the injured Kwaku Temeng '80, who took the long jump and picked up a second in the dash, was unable to compete in that event. When Temeng could not jump, Okine

stepped in and finished with his third victory of the day. Teammates Jason Tong '79 and Bill Heil '79 completed the triple jump sweep for MIT.

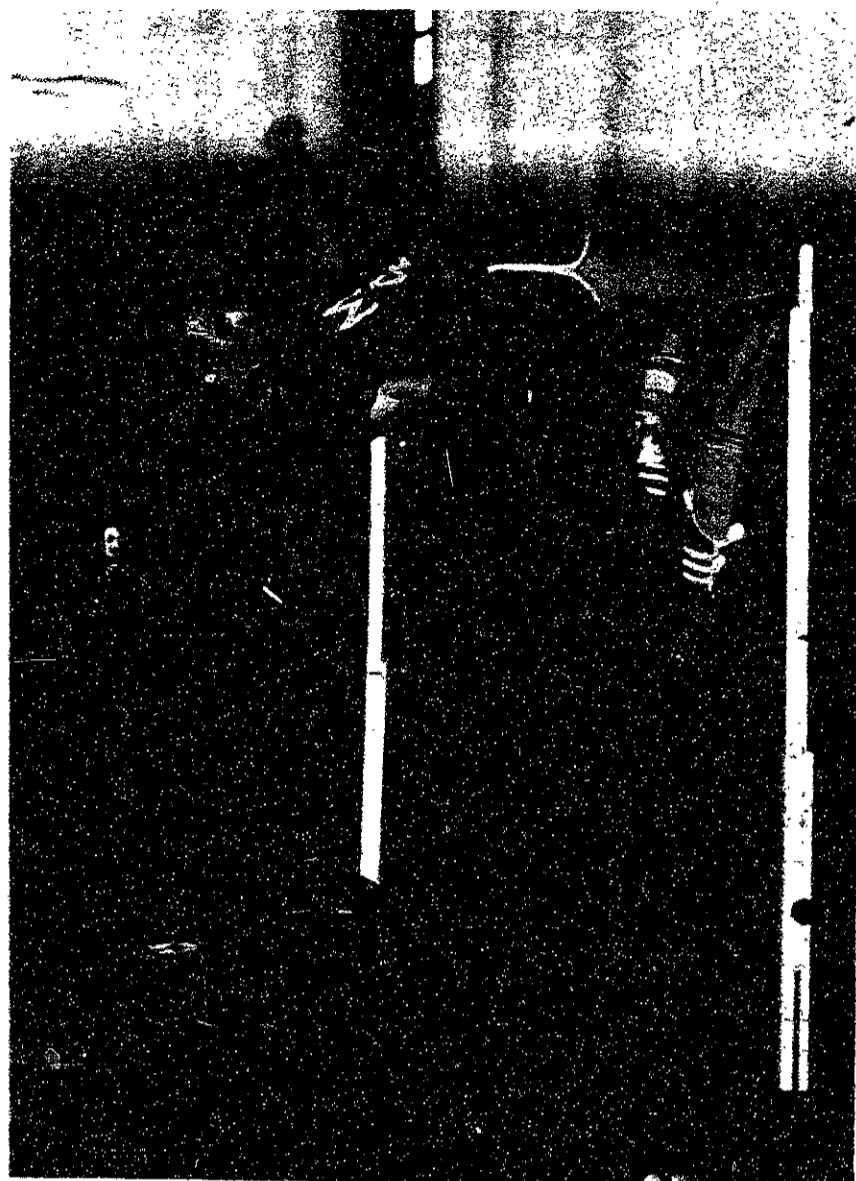
MIT weight throwers averaged better than 50 feet per best heave in their specialty. Steve Sifferlen '78 threw 51'6 1/2" for first. Fred Bunke '78 (50'2 1/2") and John Lundberg '77 (49'1") placed second and third for MIT's other 1-2-3 finish.

Additional solid performances were turned in by John Dillon '78 (second in the 100 yard run), and Jim Williams '77 and Loren Schmid '80 (second and third, respectively in the pole vault). Schmid's 12'6" effort beat his previous best by a full foot.

Head coach Gordon Kelly cited the squad's attitude as a key to its lopsided victory. "We were up for it," he observed. Kelly thought that the Bates athletes had become discouraged early when MIT jumped out to a 26-1 lead after only three events.

This was an outstanding dual meet season for MIT. The Beaver's have carried themselves well, finishing 8-1 against New England's most competitive small colleges. A significant contributing factor to MIT's success has been the relative good health of the squad's members. Only co-captain Joe Egan '77 has sustained any lasting injuries.

This Saturday, MIT competes in the Easterns Championships at Tufts.



For the third time this season Reid von Borstel '78 broke the MIT high jump record, this time in the Saturday meet against Bates. The new record high jump is 6'7-3/4".

Hockey wins big

By Tom Stagliano

The MIT Hockey team defeated Curry College 2-1 and walloped arch-rival Assumption 7-1 to guarantee the first winning hockey season since the early 1960's.

Last Wednesday the Beavers had a 52 second showdown with Curry. Midway through the second period John Birchall of Curry potted an unassisted goal to give them a brief lead. Thirty seconds later center Rich Bryant '79 and right wing Lou Odetto G broke in, two-on-one against the Curry defense. Three quick passes later found Bryant alone with the Curry goalie, and he tied the score at one apiece.

After the ensuing face-off, right wing Frank Scarabino G flushed a Curry defenseman from behind his net, causing an errant pass to be retrieved by defenseman Allan Strong '80, who whistled the game-winning goal by the Curry netminder. MIT goaltender Paul Estey G squelched thirty-five Curry scoring bids as the Beavers were outshot by a 3-2 margin.

Beaver coach Pecknold felt there were many ways Bryant and Odette could have blown their scoring bid and he was proud of their cool, level-headed play. This two-on-one situation was drilled extensively during the preceding practice and led directly to the Beaver victory.

Saturday found the Beavers entertaining Assumption, a leading Division III hockey team. The first period showed that Assumption was every bit as tough as the Beavers had expected, with the play dominated by the Assumption team in the MIT end. Beaver goalie Dan Costa '78, however, was equal to the task, turning aside fifteen scoring drives allowing the Beavers to end the period down 1-0.

The second period brought

forth a turn in the tide as the Tech skaters tallied four goals while steamrolling through the Assumption defense. The last period saw no letup as the Beavers added three more goals to their lead. Costa recorded fifty-four minutes of shut-out hockey, withstanding a total of forty-four Assumption shots.

The Beaver attack was led by center Dave Tohir '79 with a hat trick and one assist, wing Kevin Dopart '79 with two goals and two assists, defenseman Strong who scored two goals and wing Ken Mortensen '77 who contributed three assists.

The Tohir, Mortensen and Dopart line has clicked for twenty-five goals this season. Tohir leads the way with two hat tricks and thirteen goals. The Beaver defense is led by captain Dan Silverstein '77 displaying brilliant defensive play and "phenom" Strong tallying eleven goals, four of them game winners, besides practicing bruising defensive work.

The Beaver scoring thrust is rounded out by center Bryant who has eight goals and seven assists to his credit. Bryant's hustle and skill have made him a leading member of the Beaver man-down line-up, shutting out the powerplay during this puck ragging duty.

The Beavers are anchored by goalies Costa and Estey, who have each posted a 2.57 goals-against average. This far surpasses the Division III mark set by goalie Pete Bechtal of Lehigh University with a 3.68 goals-against average.

The Beavers meet their toughest competition tomorrow night when Nichols enters Briggs Arena. The season then trails off with rematches against Fitchburg State, Clark, and Bunker Hill.

Swordswomen trim Trinity

By Jeannette M. Wing

Despite injuries to three of the four starting members, the MIT women's varsity fencing team (9-4) overran Trinity 14-2 on Saturday.

Co-captain Meredith Boice '78 tallied four victories, fencing cautiously and scoring with simple moves against the slower Trinity women. Jeannette Wing '78 added another three wins by mixing simple attacks with quick

defensive moves.

Co-captain Judy Austin '77, who pulled a hamstring the night before, won her two bouts with convincing scores of 5-1 and 5-0. Michelle Prettyman '79 enjoyed two victories in spite of previous injuries, with the same bout scores as Austin. Sue Nelson '77 added two wins and Karen Kaufman '77 added one. The Trinity women were certainly no match, even for the injured MIT team.

The night before, the women lost to a strong Cornell team 5-11. To the surprise of the MIT women, freshman Julia Shimaoka scored the first winning bout for MIT with clean and simple straight arm attacks. Encouraged by this victory, the team went on to win four more bouts. Austin won two; Boice and Wing won one each.

The next meet is Wednesday, Feb. 16, against WPI at 7:00pm in du Pont.

sporting notices

An IM Council meeting will be held tonight at 7:30 in the Varsity Lounge. Elections will be held for chairman and secretary of the IM Council.

* * * *

The MIT Auto Club will be

holding its monthly meeting at 7:30pm on Feb. 21 in the Student Center Rm. 407. Topics of the meeting will include auto part discounts for club members and plans for the spring road rally and auto racing during the coming year.

Still Room on the Ground Floor for Computer Engineers & Programmers

Computer professionals are aware that today's most advanced large-system technology was developed by a company that, not too long ago, was virtually unknown. It was during late 1975—when Amdahl delivered its first multi-million-dollar 470V/6 system following a 5-year, \$50,000,000 effort—that the company first attracted widespread industry attention. Now, Amdahl is the most talked about company in the industry: a compact group of high-talent high technologists producing the world's highest performing general purpose computers. By the end of 1976, we installed 33 systems valued at \$140,000,000 worldwide.

The original design team is still virtually intact and working on future systems. Although we are growing at an extremely rapid pace, we are

committed to retaining the same creative environment that yielded the 470V/6. We are still small by computer industry comparisons: we ended 1976 with fewer than 800 people. We are still friendly. We still enjoy attacking tasks because we think it's fun. And we still reward personal efforts with personal recognition.

We think Amdahl is a great place to work. There's still room on the ground floor for you if you are about to receive a BS or advanced degree in electrical engineering or computer sciences, and consider yourself a cut above your classmates in competence, enthusiasm and potential.

Amdahl Corporation, 1250 East Arques Avenue, Sunnyvale, California 94086. We are, of course, an equal opportunity employer.

We are coming to campus to fill positions in hardware and hardware-related software. We are specifically interviewing for hardware logic design-

ers and hardware-related, software diagnostic engineers, design automation programmers, and control programmers for our mini-based console.

ON-CAMPUS INTERVIEWS:

Tuesday, March 1

amdahl