

## in the news

### INSIDE

Writing Program lecturers Sandford Kaye and Joseph Brown have not been fired as of this date, but the chances that they will be rehired appear remote, maintains Associate Dean of Humanities Donald Blackmer. Kaye and Brown refused to cooperate in a routine staff evaluation.

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*Foul Shots*, the semi-weekly sports column returns to the Sports section this issue. The first *Foul Shots* takes a look at how violence in pro hockey has affected school hockey games and their spectators.

p8

### CAMPUS

Baker sophomore David Gaskin unofficially broke the world record for "elbow coin catching" at 1:18am Sunday by balancing 66 quarters on his right elbow, flicking his arm, and catching all 66 in the palm of his hand. Gaskin, a native of Tiburon, California, has been practicing the stunt since junior high in search of the record. It took nearly two hours of attempts to break the mark.

### NATION

Fairfax County Public Schools are building one of the first "energy saving" schools in Reston, Va. The new structure will be built mostly underground to improve insulation, and will take a third of its energy needs from solar power. Funds for the school (\$665,000) were furnished by the Saudi Arabian Government.

Scientists at the National Bureau of Standards announced Saturday that some of the chemicals which have been recently classified as dangerous to the earth's ozone layer may be broken down by exposure to sunlight or by absorption in sand. They indicated that this breakdown would not occur in sufficient quantity to negate the danger to the atmosphere.

### ERRATA

The Glenn Brownstein '77 byline on the IM track article in the Feb. 25 issue of *The Tech* was incorrect. The actual writer was IM track manager Frank Kenney '78.

## Lincoln Lab Director gets Defense post

By David B. Koretz

Gerald P. Dinneen, professor of electrical engineering and director of the Lincoln Laboratory, was nominated by President Carter last Friday to be an assistant secretary of defense.

The nomination, announced at a White House press briefing, carries no designation regarding area of work. Dinneen told *The Tech* that he expects to be working in "a number of areas, as assigned by the Secretary of Defense."

Dinneen, who came to MIT in 1953 as a staff member in the Lincoln Laboratory's Data Transmission Group, has been director of the lab since 1970. He said that "it was a very difficult decision to leave MIT at this time, particularly to leave Lincoln Laboratory."

"I'm very honored," he added, "that the President and the Secretary of Defense selected me, and I look forward to working with this Administration ... to help them achieve their goals."

"For Harold Brown, I have the highest respect," Dinneen said, "and I'm really glad to join his team." As an assistant secretary,

Dinneen would be part of Brown's staff.

The nomination is subject to Senate confirmation. Dinneen noted that he expects the hearings to be held "within the next week or ten days."

Chancellor Paul F. Gray '54, in a statement released over the weekend, said that the MIT community "wishes him well in the important work he will soon undertake in behalf of the nation's defense."

Dinneen, 52, received his bachelor's degree in mathematics from Queens College in 1948, shortly after a three-year stint in the US Army Air Corps. He did his graduate study at the University of Wisconsin, where his thesis work in matrix theory culminated in a doctor of philosophy degree in 1952.

Until January 1953 he was a senior development engineer at the Goodyear Aircraft Corporation in Akron, Ohio, where he performed research on applications of analog computers to real-time control systems.

Seven years after joining the Lincoln Laboratory staff, Din-



Director of Lincoln Laboratories Gerald P. Dinneen has been nominated to be an Assistant Secretary of Defense by President Carter.

neen was appointed associate head of the Information Processing Division and a member of the lab's Steering Committee. He has also served as the head of the Communications Division, and was associate director of the laboratory from 1966 until his appointment as director in June 1970.

The following year Dinneen was appointed professor of electrical engineering. In April 1975 he was elected to the National Academy of Engineering, the highest commendation in the profession. He is currently a member of the Executive Committee of the Assembly of Engineering of the Academy.

### Viewing the cable

## The MIT Cable: two years and \$1 million

By Kent Pitman

*Editors note: this is the first of several articles assessing the MIT Cable system: what it has done, and what it hasn't.*

Two and a half years ago, the members of the Center for Advanced Engineering Study (CAES) recognized that our instructional processes were lagging behind current technology. In an attempt to remedy the situation, MIT's cable television system was created.

On Sept. 3, 1974, a proposal was submitted to the Alfred P. Sloan Foundation, requesting financial support to "institutionalize its experiments with, and its use of, video communications in carrying out its educational mission."

The proposal outlined the intent of CAES to develop "experimental curricula materials," evaluate technical and instructional results, build "a cable communications system of novel design," and alleviate technical difficulties in such a system.

The report offered detailed descriptions of the various courses which could benefit by the incorporation of video instruction aids into their normal curricula. It also outlined formats for courses which did not exist, but which could be created if video were made feasible for classroom use.

The Sloan Foundation responded to this proposal with a grant of \$620,000 to be used by CAES over a two year period.

Many of the projects which had been proposed immediately began to make headway, and by mid-October MITV announced that it would run the cable's first news program on a regular basis.

In early 1975, a report was presented to Sloan on the subject of educational cable television. In this report, more elaborate goals to be accomplished over the following three years were described.

These included:

• *Stage 1:* Telephone Feedback and Simulated Video Interactions. A series of "discussion and question video sessions — initially live ... but recorded for later

replay," would be presented via the cable.

• *Stage 2:* Computerization of student feedback. This was described as a system in which "students will be asked to input

their messages directly to a computer system ... [and] the computer then logs, files, and distributes the messages as required."

*(Please turn to page 2)*



William Johnson '78 mans the controls board in the Experimental TV Studio in the Center for Advanced Engineering Study, where programming for MIT's cable system originates.

### The MIT Budget: an analysis

## More tuition not the only way

*Editor's note: this is the first installment in a series exploring the MIT budget and how it affects students. In this issue the report of the General Assembly's Committee on the Institute Budget is discussed along with basics of how the system works.*

Tuition is the largest single expense for most students at MIT, yet few students understand the processes that lead to their bill, or anything else about the MIT budget.

A group of students have attempted to alleviate this situation and back up their criticism of the magnitude of the tuition increase with proposed alternatives for raising the money.

"We don't claim to be financial geniuses" Nino Pedrelli '78 explained. He said that the report was intended to demonstrate that MIT's economic priorities "don't include students enough."

While the budget itself is complex, the problem MIT faces is simple: income is not keeping pace

with expenses. The problem is usually expressed in more complex language, however.

The costs of running MIT day-to-day are called *operating expenses* — these figures include professors' and administrators' salaries, as well as the costs of research, and physical plant. *Operating income* comes from reimbursements for sponsored research, from tuition, and from other smaller sources.

In recent years, however, oper-

*(Please turn to page 2)*

# Student report: sell Simplex, raise tuition less

(Continued from page 1)

ating income has not paid for operating expenses, leaving what the administration refers to as the "operating gap."

The "gap" is filled from several sources: the "Use of Facilities" allowance given to MIT for the use of its laboratories for sponsored research, patent revenues, and small unrestricted gifts.

This still does not make the budget balance, however. The "hard deficit" remaining after these sources have been used is made up from unspent income from special funds and from funds that would otherwise have been invested as endowment. This loss of endowment principal means a loss of investment income.

## Origins of the cable

(Continued from page 1)

• *Stage 3: Computer Interaction.* The use of a specialized "term-definition" or "concept-explanation" data base to supplement classroom instruction.

• *Stage 4: Full Computer Access.* Computer controlled video and computer graphics would be made possible.

The cable, which initially reached only the monitors in the lobbies of Buildings 7 and 10, was later extended to create a campus-wide network, and equipment was bought to outfit the television studios.

On the first day of IAP, 1976, the cable was officially opened. By that time, 34 locations on campus were set up which could support video monitors. During IAP, the Video Club came into existence, a student group which has since become one of the heaviest users of the cable.

Professor of Political Science Ithiel deSola Pool had stated (*The Tech*, Oct. 3, 1975) "The important thing now is that the cable is in and it works... Now we're going to have to decide how we're going to use it." The projects which began with the IAP activities had indeed shown the cable to be a viable medium. It remained to be seen whether their goals would be attained.

Since the expiration of the first grant in early 1976, CAES again petitioned for monetary assistance to continue functioning.

A second grant, this time for \$490,000, was approved by Sloan during July of 1976, to be used over the subsequent two and a half years.

This would be the last such grant from the Sloan Foundation. Myron Tribus, CAES Director, told *The Tech*. The foundation has discontinued its practice of investing in video; MIT and Dartmouth were among the last institutions to receive such funding.

Part of the second grant has already been used for salaries and

Chancellor Paul Gray '54 has made plans to eliminate the hard deficit in the fiscal year of 1978, and to close the operating gap soon afterward. Besides the use of budget cutbacks, one of the main tools he is using is tuition.

A higher tuition rate or more students would contribute more income. The administration is doing both.

The GA report suggests that this is not the only way to close the gap. They list several options that could be used instead:

Among MIT's many real estate holdings is the former home of the Simplex Wire and Cable Company which MIT purchased for \$16 million in 1969.

MIT plans for developing the

for the installation of cable drops and monitors on campus. (There are currently over 1,000 cable drops accessible to the MIT community throughout campus.)

What will the cable do when the second grant runs out? The original purpose for the grants was merely to establish the system, not to subsidize its operation, which means that unless further outside funds are obtained from another source, each department will probably have to support a share of the cost proportional to its usage.

If it is decided that MIT should again seek aid from an outside agency, however, eligibility for such aid will probably be dependent on its record of past achievements.

Some of the goals set forth for video have been realized. Several humanities courses have begun to use video as an integral part of their classroom activities, and experimentation in the "simulated video interaction" described earlier have been attempted, but there is still a great deal left undone.

In future installments of this series, *The Tech* will examine the present state of the cable, and the prospects for its future.

### \* + -- "SYMM--ETRY" -- + \*

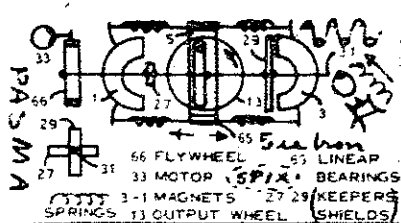
Because they relate to the fundamental properties of space & time symmetry principles appear to be of greater basic significance than the conservation principles.

Why don't we put relativity to the tests of symmetry? Why should time just dilate & length only contract? Since objects with relative motion can open or close why does not length also dilate & time contract?

A simple example often presented: if you open from a mechanical clock at  $c$  you will always see the same time, say 2 o'clock. What if you close on the clock at  $c$ ? How can you see something the clock has not yet indicated? A laser is a very accurate clock that can be detected millions of miles away. Closing on a green laser gives a blue shift & opening gives a red shift. This proves  $c$  is a constant ONLY to the source since the frequency of the laser probably does not change.

We may no longer have to invent particles we can't find. Maybe energy isn't always conserved. Spix (the rotation or precession of a particle's spin axis) carries off energy or momentum. Spix does not affect a charge's electrostatic force but does affect its magnetic force.

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For further details see page 54 of the Feb. 1977 Physics Today

land have been largely unsuccessful: the report recommends that MIT sell the property — admittedly at a loss — and use this money to help balance the budget. The report claims that "the additional revenues gained would be enough to reduce tuition by \$150 for every student on campus."

Another option that the report recommends is the use of part of a "rainy day fund" of \$20 million that has been maintained as short-term investments to help "smooth out" the variations in endowment income from year to year.

The student committee recommends that part of this money be invested at higher interest and part of the remainder be used to offset tuition.

MIT's commitment to scholarships is insufficient, according to the report. It asks that MIT increase its goal for the scholarship fund — the income from this

money is used to support financial aid — from \$10 million to \$20 million.

The report also recommends that the student's ability to pay, as measured by median national income, be taken as a limit to the amount student's are expected to contribute to the costs of their

education — the equity level.

This report will help students to "ask tougher questions" about the budget in the future, according to Undergraduate Association President Philip Moore. Whether the administration will change its mind on the decisions involved is another matter.

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# Kaye and Brown 'not fired'

By Thomas J. Spisak

Sanford Kaye and Joseph Brown, the lecturers whose routine staff evaluations added to the controversy surrounding the Pilot Writing Program, have not been fired, according to Associate Dean of Humanities Donald Blackmer, chairman of the ad hoc evaluation committee which considered their cases.

"They have not been fired, they have been informed by the Dean [Harold J. Hanham, Dean of the School of Humanities and Social Science] that, given their refusal to cooperate in the evaluation process, their reappointment is unlikely," Blackmer said.

Blackmer waited two months for Kaye and Brown to comply with requests for the materials necessary to complete the review. He then explained to Hanham that

the ad hoc committee was unable to undertake its evaluation since it lacked the necessary cooperation from those being evaluated.

Junior faculty members are normally evaluated for promotion by the senior faculty in their area. Hanham appointed a committee because of conflicts between members of the Writing Program and members of the Literature Section — those who would normally evaluate the Program staff.

"In the second week of October, all four candidates [Kaye, Brown and Professors Patricia Cumming and Elzbieta Chodakowska] were asked through David Breakstone, the Acting Director of the Program and a member of the ad hoc committee, to submit resumes and a list of names of people whom we might contact as references," Blackmer ex-

plained.

On November 3, the committee met with the four senior Writing Program staff members to discuss evaluation methods and criteria.


At that meeting the four made it clear that they considered the evaluation criteria unfair when applied to Kaye and Brown. Subsequent memoranda were written echoing their charges.

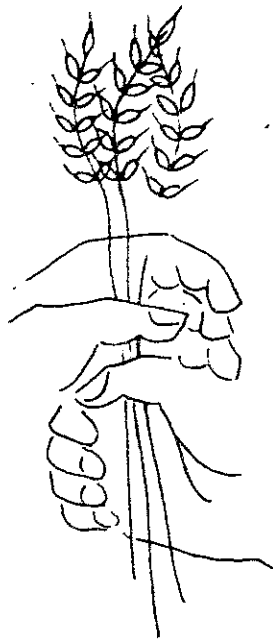
On Nov. 12 Blackmer sent letters to Kaye and Brown requesting the names of several people who could recommend their work. He indicated that the names must be submitted by Nov. 16.

Kaye and Brown responded to Blackmer's request with a jointly signed letter on Nov. 16. They rejected the evaluation as "illogical and unfair." Two weeks later they sent a letter to Hanham restating their objections to the review process.

On Dec. 9, Blackmer informed Hanham that because Kaye and Brown would not cooperate, the ad hoc committee could not evaluate their teaching.

The evaluations of Professors Cumming and Chadokowska, who cooperated with the committee from early October, proceeded. At press time no decision had been announced.

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# opinion cont.

## feedback

### Sivin on writing program

(Continued from page 4)

of Dean Blackmer as "an outspoken foe of the Program." If Joe said that, I can only understand it as a misapprehension. One of Don Blackmer's strengths as an administrator is that he asks the hard questions in the hope of challenging people to find the strongest responses. The committee which evaluated the Writing Program found this challenge invigorating, and we know that it strengthened our recommendations. The idea that our report has been ignored stems from a very curious idea about how universities work. As I said in an earlier article in *The Tech*, institutional change does not come about by administrators waving magic wands.

Finally, let me correct a couple of errors that will no doubt have confused some of your readers. Our evaluation of the Writing Program did not recommend "that a Director not be appointed for some time because of the

prevailing animosity." We recommended a "deliberate search — planned, however, without delay" and that is exactly what is going on. Nor did we recommend that staff evaluations should be conducted only in terms of work within the program rather than as scholarly members of any individual department or school. I am completely unable to understand how the two might be thought of as mutually exclusive. I would be amazed that any member of our committee felt that the work of the Writing Program staff as scholarly members of the Humanities Department or the School of Humanities and Social Science ought to be ignored.

I am sure the editors of *The Tech* realize the importance of not muddling further a situation that involves the careers of hard-working faculty and the needs of students for competent help with their writing.

N. Sivin  
Professor of Humanities

### Review 'insensitive'

To the Editor:

Want some cheesecake with your beef? Then go to Newbury's Steak House; they have pretty waitresses in addition to a full line of steaks. Congrats to David B. Koretz and *The Tech* for adhering to tradition by starting off a new feature with characteristic unoriginality and insensitivity. The remark about the physical appearance of the waitresses in the last sentence of Koretz's February 15 review gives tacit permission to college-area restaurants to continue their discriminatory hiring and firing practices. Everyone knows how hard it is to get a job these days, and when you are poor and trying to get through school, waiting on tables is one job that provides an opportunity to earn a decent income. For a woman who bears no resemblance to Cybill Shepard or who does not giggle when a customer grabs her ass, job prospects are considerably narrowed. Restaurants striving for a phony high-class atmosphere

often equate statuesque blondes with sophistication; the short, plump, or dark need not apply. Many places fire their female help if they do not allow customers to paw them; this has been the reason for at least one local restaurant strike by waitresses.

What Koretz, many restaurants, and many customers forget is that a waitress or waiter's job is to serve customers food and beverages and perhaps to save a customer from choking to death by using emergency first aid. Their tips should be gauged according to how well they perform these services, and by these criteria alone.

If you want to look, go to a fashion show and ogle the models. If you want to grab, why not patronize some of our working sisters on the street? Many of them are former waitresses who decided that if they're going to have to put up with sexual advances, they may as well get paid well for it.

Libby Cone '77

### NATO-Soviet debate continues

To the Editor:

In a recent column, Thomas Spisak criticized "recently leaked intelligence estimates" which claim the Soviets have achieved conventional superiority in W. Europe. Because of his vagueness, I do not know which report he was referring to, but as a student of defense policy, the NATO situation, and Soviet defense policy I feel I can correct some of his misperceptions and false assumptions.

While it is true that in terms of manpower the Warsaw Pact and NATO are generally in equilibrium, and some of the Pact nations are unreliable, at this point the analysis breaks down. For economic reasons Britain is reducing its contributions to NATO, in Denmark there is a strong move towards disarmament, and the French are not that reliable since they have no prior commitment to the defense of W. Germany and, given a surprise attack with decisive early results (as most reports assume), they might choose to defend their borders with their nuclear deterrent *force de frappe*.

Mr. Spisak also assumes that the "restive" Pact nations would need to be garrisoned, when in reality most of them are and none would cause trouble if Soviet troops were rolling back NATO decisively. Mr. Spisak also correctly notes that NATO logistics are greatly superior to those of the Pact, but Soviet doctrine calls for a quick breakthrough and pursuit into the rear areas so as to throw the rear echelon (logistics trains, reserves, etc.) into disarray.

Indeed, if Mr. Spisak had studied any of the reports in detail (which apparently he did not), he

would have noted that the two major concerns of the authors involved more than the overall European balance. One concern is the vulnerability of U.S. supply depots (which tend to be concentrated for economic reasons) to tactical attack. (Soviet doctrine calls for extensive use of tactical nuclear weapons.) Also, U.S. airlift capability is inadequate in terms of oversize cargo (50-ton tanks, etc.). If you assume increased unreliability of NATO allies, the correctness of Soviet doctrine, and a tactical nuclear strike to open the campaign, the "balance" could be a rout. Though in my opinion the Soviets could suffer an ignominious defeat, it wouldn't take much for that opinion to be turned around.

The other factor which concerns analysts is the fact that the

Soviets, having achieved conventional parity in terms of general quality of equipment, now seem to be moving ahead with a further modernization program which is greater than the U.S.'s (with the exception of aircraft). While the reason may simply be bureaucratic inertia (i.e. an unwillingness to shut down the tank production flow and fire the design engineers) the point is we really don't know.

The debate centers on an equation; we know the constants and we think we know the variables, but there is a possibility, however small, that the variables may be negative instead of positive and the question is how far should we err on the side of caution?

Michael C. Lynch G  
February 21, 1977

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arts

events

## Concert Review

## Giant slays Renaissance

By Claudia Perry

Playing before a sellout crowd at the Orpheum Friday, Gentle Giant and Renaissance displayed only a fraction of the talent that has made their past concerts memorable. Although these two bands can turn in a mediocre performance and still outplay others at their peak, they hardly lived up to the expectations of the crowd.

Second-billed Gentle Giant's opening set was uneven at best. Their finest moments came during the introduction to "On Reflection." With bassist Ray Shulman on violin and keyboard player Kerry Minnear on cello, it was an interesting change of pace from their usual jazz/rock sound.

"Funny Ways" and the previously mentioned song were enough to make one forget about Gentle Giant's total lack of stage presence. Since most of the band members play more than one instrument, their show resembled some sort of freaked-out *Beat-the-Clock*. Lead singer Derek Shulman's antics compare unfavorably with those of an overweight martial artist. He spent most of the evening squinting and throwing his bulk around.

Musically, Gentle Giant is anything but clumsy. Their versatility and inventiveness are what sets them apart from most active jazz rock bands. At the conclusion of their hour-long set, cries of "More!" filled the hall. When they did not reappear, a cascade of boos descended from the balcony, growing in volume as it reached the floor.

Following all of this was Renaissance. For any other audience, they would have been more than adequate. But this crowd was overwhelmingly partial to Gentle Giant. At one point during their set, vocalist Annie Haslam asked the audience if they were having a good time. "No, we're bored stiff," cried a lone soul in the balcony. "we're just being polite."

Still, there were a good number of Renaissance supporters in the audience. One of them gave Haslam a flower which she accepted giddily. Extremely nervous, she wandered aimlessly about the stage when she wasn't singing. When she was, Haslam stood rigid in front of the mike, hands clasped as though this were a church recital.

Renaissance's music is fairly even in tone and performance. There are very few surprises in their concerts. Most of the excitement comes from their inspired presentation. For some reason, that motivation was conspicuously absent Friday night. The band's playing was flawless but lacked the energy to excite the crowd.

Perhaps if the billing had been reversed, and Gentle Giant had closed the evening, Renaissance's stasis would have been less noticeable. Gentle Giant has planned to record a new album in May. If Friday's performance was any indication of their concert work, Renaissance would do well to return to the studio also.



Brazilian pianist Nelson Freire will present a program of Franck, Ravel, Chopin, Villa-Lobos and Liszt Wednesday, March 2 at 8:30pm. The concert will take place at Sanders Theater, Harvard and is free to the general public. For further information call 262-4848.

\* \* \*

Caravan Theater/Cambridge announces four special benefit performances of *Family* March 4, 5, 11 and 12 at 8:30pm at the Caravan Theater, 1555 Mass. Ave., Cambridge. All tickets will be \$5.

\* \* \*

Continuing with their third annual winter animation series, Center Screen Film Society presents a program of films by Red Grooms on March 4, 5, and 6 at the Carpenter Center for the Visual Arts, Harvard. Admission is \$2. For further information call 253-7620.

\* \* \*

*Auteurs: Five Short Stories*, a program of short films by Federico Fellini, Roman Polanski, Claude Chabrol, Robert Enrico and Jean-Luc Godard, will continue its run at Off the Wall until March 1. Opening the following evening will be *Soft-Core Reality*, a collection of short films. For further information call 354-5678.

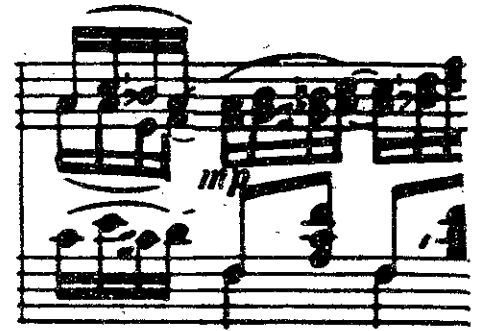
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The Windermere Brass Quintet with Andrew Wolf on piano will perform at Longy School of Music, Friday, March 4 at 8:30pm. Tickets are \$3 and \$2 for students. For further information call 731-9786.

The Cambridge Ensemble will hold over their production of Aeschylus' "Oresteia" Thursdays, Fridays and Saturdays at 8pm through March 12 at the 1511 Mass. Ave. theater in Harvard Square. For ticket reservations, group rates and further information call 876-2544.

\* \* \*

Banchetto Musicale, a series of chamber music concerts, will have its next performance on March 18 at Paine Hall, Harvard. Tickets will be available at the door for \$4 (\$2 for students). For further information call 495-2791.



\* \* \*

The Museum of Fine Arts' annual book sale will be held from March 8 to March 10. Admission to the sale is free. For information concerning its location and hours, call 267-9300.

\* \* \*

Anyone with information concerning a cultural event, please send it to Katy Gropp, Arts Editor, c/o The Tech, P.O. Box 29, MIT Branch, Cambridge, Mass. 02139.

XEROX

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The Xerox Corporation (California Facility) will be on campus the evening of March 2 to give a presentation to interested faculty and graduating students in the Bush Room, room 10-105, from 7:30pm to 9pm. The subject of this presentation will focus on Xerox systems development and electronic technology efforts.

Campus interviews will be held on March 16. Those interested should make appointments through the Placement Office.

# sports cont.

## Brandeis swimmers no trouble for tired Engineers

(Continued from page 8)  
 Divers Lori Lamel '79 and Joan Hooper '78 with no Holy Cross competition exchanged places — Lamel winning the 1-meter diving, and Hooper winning the optional diving. Holy Cross did have one good freestyler who took first in the 200-yard, 50-yard, and 100-yard freestyle with MIT's Karen Fabricius '80, Wendy Irving '77, and Enora

Kunica '80 hot on her heels to take second and third in those events.

By Friday's meet with Brandeis an anticlimactic lethargy had set in. The weekend before, the women had competed for the first time in the New England Regional Championships. Out of 30 teams, MIT placed 19. Fabricius, Konecke, Hooper, the freestyle relay team, and the

medley relay team scored points for MIT. Konecke placed seventh out of a field of 33 swimmers in the 200-yard breast stroke. The first 8 finishers of each event were awarded a certificate.

In addition to the general tiredness of the team, the chlorine level in the Brandeis pool was incredibly high. The women could barely swim 50 yards without goggles to protect their eyes. As a result, women started long races in the water so the goggles would not come off. Despite the loss of time in starting this way, MIT still demolished the Brandeis team 84-44. After losing the opening 200-yard medley relay, MIT's Fabricius and Irving bounced back to take the 200-yard freestyle 1-2, and Konecke and Marcus finished 1-2 in the 100-yard individual medley. Belt placed second in the 50-yard backstroke. Brown, trying out the

breast stroke again after Wednesday's meet won that event. Fabricius won the 50-yard butterfly and finished second in the 100-yard butterfly. Hooper won the 1-meter and optional diving with Lori Lamel coming in second. Konecke won the 100-yard

backstroke and 100-yard breast stroke. Brown won the 100-yard freestyle.

The team will lose only three people due to graduation this year, so chances are good that the women will continue their winning ways in the '77-'78 season.

## sporting notices

The women's rugby football club needs a few more players to form a complete team. All women staff and students who hold an MIT athletic card are eligible to play. No experience is necessary. For further information, call Robin Reenstra at 646-7754 or Connie Cotton at 253-4784, or come to the Rockwell cage Wednesday at 7:30pm.

There will be a Women's Athletic Council meeting on Wednesday, March 2 at 7:15pm in McCormick Hall Seminar Room A. The meeting is open to the public.

There will be a women's softball club meeting on Wednesday, March 2 at 6:30pm in McCormick Hall.

Elections for president, secretary, and the two members-at-large of the MIT Athletic Association will be held at 8:00pm, March 21 in the Varsity Club Lounge. To be eligible the candidates for these positions must gather 100 signatures on petition forms available in the Athletic Department general office. The forms must be turned in at the office no later than 5:00pm Thursday, March 17. For more information or questions contact Wendy Irving, president of MITAA.

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# Is violence in ice hockey harmful to children?

By Glenn Brownstein

About a year ago, I wrote a column on the annual "Hockey Madness" — the annual Eastern Massachusetts schoolboy hockey tournament held at the Garden the first week of March. Although a classic tournament that stirs

coaches and parents, and inconsistent officiating that builds resentment. Nor let us forget the rule that allows checking all over the ice: many high schoolers do not have the maturity to accept a clean, hard check.

So what happens? There are

## foul shots

emotions on the same level here as the Kentucky or Indiana high school basketball tourneys do in those states, it faced possible removal from the Garden due to spectator violence.

The events of the past year have convinced me that while threats of teams' expulsion from post-season play have calmed down many fans, something has to be done about the players. Wanton violence on the high school rinks is a quickly spreading disease that threatens to wreck the game itself.

There's no doubt in my mind that the premium placed on violence in the pro leagues has had a major effect on this development. But let's not forget the "win at all costs" attitude taken by some

stick-swinging duels during and after tight games; nearly one half-dozen referees have been attacked at games this year; concussions and serious gashes have become more and more prevalent.

Not all high school teams have been involved in the violence. Yet even a small number of violent incidents cast a bad light on the sport as it is played today — and this is quickly becoming more than just a localized occurrence. The Boston schools, Arlington, Everett, Revere and other local teams have been blamed for much of the violence, but there have been as many incidents outside the Boston metropolitan area as inside.

What happens when these kids

get to college? In Eastern college hockey, a fighting penalty brings with it automatic ejection and suspension from the next game. Yet the severity of the infraction intimidates the officials, who term college brawls as "roughing," "highsticking," "charging," and the like. Just the possibility of suspensions, though, keeps fighting at a minimum.

You can see the result of the pro influence at MIT. Ever see an A-league game that featured skating over-violent checking and chippiness? Probably if you have, such games are in the minority, although I'm told the problem

has eased a bit this year. There are occasional incidents in B- and C-leagues, although the players' limited abilities usually minimize the chances for violence.

Beginning tomorrow, the top eight teams in Eastern Mass. Divisions 1 and 2 will play for titles at the Garden. The week promises to bring hockey fans some memorable action; I'm hoping, but I'm not convinced at all, that there won't be at least one donnybrook, either on the ice or off. And that, I will bet, will be the end of the tournament at the Garden.

The time has come for the high schools to re-analyze the na-

ture of hockey as an interscholastic sport and to take steps to assure its survival. The colleges have experimented and developed a reasonable plan to minimize fighting and excessive violence. Unfortunately, the pros never will because they don't have the courage to — blood and violence sells tickets.

Waiting until somebody gets killed or maimed for life is the way things are usually done — let's hope that the high schools will figure something out before that stage is reached. And one more year of indecision may just be too many.

## Basketball finishes on up note

By Glenn Brownstein

For the last four years, the key to MIT's success in its final basketball game has been a sensational performance by an unheralded player. Bob Roth '74, Alan Epstein '75, and John Cavolowsky '77 have all responded to final-game challenges with the best game of their respective careers. Substitute guard John Doyle '77 continued

that tradition Saturday afternoon with a 20-point, five-rebound, four-assist effort in just 25 minutes of playing time to lead the Beavers to a 70-64 win over Connecticut College in New London.

Doyle, a sometime starter this year, came off the bench twice against Connecticut College to lead the Beavers through two surges that decided the contest.

MIT missed its first 11 field goal attempts, hitting just two of its first 19 shots, to allow the Camels to build an early 15-5 lead. Pressed into action, Doyle helped the Beavers open up the Connecticut College defense with three drives and two jumpers for 10 first-half points. Captain Peter Maimonis '77 sank three of four field goal attempts, and the rest of the squad went three-for-five as MIT shot 79 per cent in the first half's last ten minutes to rally to a 29-24 halftime edge.

In the second period, Maimonis picked up his fourth personal foul with 11:51 left and MIT hanging on to a 44-39 advantage. Doyle replaced Maimonis and scored 10 of the Beavers' next 20 points during an overall 24-12 run that cemented MIT's triumph.

In addition to Doyle's excellent performance, Rick Van Etten '78 scored 13 points with ten rebounds, and Maimonis tallied 12 points. Maimonis also had two

assists in the game, giving him 161 for the season, a school record, and 377 for his career, breaking the old mark of 376 set by Alan Epstein '75.

The victory, added to Thursday's 119-80 loss to Worcester Poly, gave the Beavers a final record of 8-13, not by any means outstanding, but substantially better than most of the pre-season predictions.

Graduating this year are Cavolowsky, Maimonis, and Doyle, leaving MIT with starters Wozniak, Van Etten, and center Ray Nagem '80, whose record 60 per cent field goal shooting and excellent rebounding should be a strong foundation for the team's future success. Expected to help the Beavers next year are forwards David Mika '79, Howard Runge '78, and Emerson Yearwood '78, as well as guard Geoff Homan '80.

The surprisingly successful junior varsity team, whose 10-10 record is the best since 1964, should also contribute talented personnel to the varsity, especially in the frontcourt positions, where players like Darryl Fraser '80, Mike Ross '80, George Feliz '79, and Scott Vierstra '80 have been performing well all season.

Indeed, MIT's first winning season since 1972 appears to be just around the corner, if players improve over the off-season. And next year could very well be the year.

## M swimming ends year; reverses 1975-76 record

By Gregg Stave

The MIT swim team put together a solid team effort this past Saturday defeating a cocky Wesleyan College squad, 67-46, at the Alumni Pool. The victory brought the Beavers final, dual-meet record to 7-4.

Avenging last year's narrow defeat, MIT pounded their foes relentlessly. In the first event, the 400-yard medley relay team of John Dieken '80 swimming backstroke, Chris Moss '80 going breaststroke, Greg Floro '79 doing butterfly, and Sam Senne '78 anchoring with freestyle smashed the school record with a blazing 3:48.056 performance. Captain Sam Senne also swam a spectacular 22.94 to win the 50-yard freestyle and later clocked 50.71 to add another important victory in the 100-yard freestyle. Sophomore Preston Vorlicek picked up two firsts, outreaching the field in the 200-yard breaststroke and finishing with a 2:09.23 in the 200-yard individual medley. In the one meter required and optional diving senior Rick Ehrlich dominated the board, winning both events. MIT divers have failed to finish first only

once in the past two years.

The key to the victory, however, was depth as the Beavers registered outstanding performances by all team members. Freshman John Bradstreet placed third in the 200-yard freestyle in a tight race and repeated with a third in the 200-yard butterfly, an event he never swam before. In the 100-yard freestyle sprint junior Ken Calvert recorded a personal best and out-touched his opponent for an important second place. Sophomore Tim Ramsey also clocked a personal best with a strong second in the 200-yard breaststroke. The team is tapering their workouts in preparation for the New England championship meet next week at Springfield. As a result several swimmers shaved fractions of seconds and even seconds off their previous best times.

This big win over Wesleyan capped off three months of strenuous training. In a sharp reverse of last year's 2-7 record, the Beavers gave second year coach John Benedick his first winning season. An ecstatic Benedick characterized the meet as "fantastic."

## Richardson fifth in indoor track

By Dave Dobos

Frank Richardson '77 sped to a fifth place finish in the two-mile run in Saturday's New England indoor track championships at the University of Connecticut. Richardson was clocked in at 9:03.2, the second best mark of his career.

Just last week, the team co-captain broke the nine-year-old MIT varsity record of Ben Wilson

'70 enroute to second in the Easterns at Tufts. He had hoped for improvement in Saturday's contest, but the racing strategy of the leaders was unfavorable to his own strengths.

Richardson, who runs a consistent pace, was surprised when Providence's John Tracy, the eventual winner of the race, took off in a :58 first quarter-mile, a time that is quick for a *one-mile*

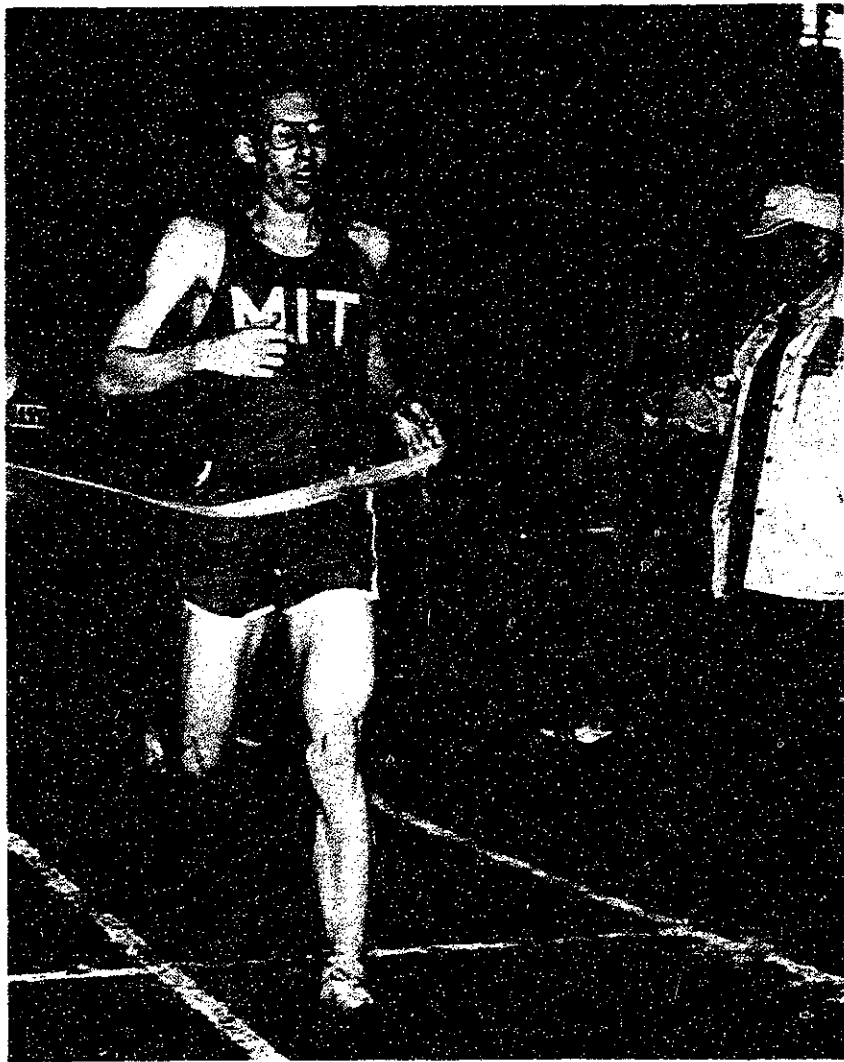
race. The pack went with Tracy; Richardson stayed back alone.

The torrid opening pace took its toll on many of the competitors. By the mile and one-quarter mark, Richardson moved up to fifth, passing a number of contestants who were burned out from the early pace. Unfortunately, the four leaders had opened up a 30-yard lead over the MIT athlete and the rest of the second pack. Richardson was too far back to make a serious run at the top spots.

Still, it was a fine race for the sandy-haired senior. "Frank beat a lot of good runners," explained distance coach Pete Close. Richardson finished ahead of Yankee Conference champion George Reed of New Hampshire, perennial rival Bob Oparowski of Bates, and Boston College's Bill Roach, who beat him in the Greater Bostons.

Close went on to say that "it has been a heckuva year for Frank." Indeed, Richardson has accomplished plenty. Breaking MIT varsity records in cross country on Franklin Park's 5.0-mile course and in last week's runner-up effort in the two-mile at the Easterns, Richardson also has gained All-American honors for the third straight year, placing fourth in the NCAA Division III cross country championships last November in Cleveland. He rebounded 48 hours later to capture the IC4A individual title at Van Cortland Park in New York.

This Saturday, Richardson is the lone MIT representative at the IC4A indoor championships in Princeton, New Jersey. He will compete in the three-mile run, a better race for him since he is stronger at the lengthier distances.



MIT long distance track star Frank Richardson '77 winning the two-mile run in the meet against Bates on Feb. 12. Richardson went on to a fifth place finish in the run at the New England in Connecticut.

## W swimming finishes superbly

By Wendy Irving

The women's swim team finished their 76-77 season with two victories, one over Holy Cross Wednesday and the other Brandeis Friday. That brought the season record to 6-3.

In Wednesday's meet MIT swept first and second place in 8 of the 15 events to leave Holy Cross in the dust 94-33. The Holy Cross team of 10 swimmers could not match the speed, depth and

versatility of the MIT team.

MIT was expected to do well in the meet, so several swimmers tested their abilities in strokes they never swam in competition before. Carol Brown '79 swam the 50-yard breaststroke event for the first time in dual meet competition this year and won, although she did enter that event in the New England. Beth Marcus '79, also trying out a stroke for the first time, finished second in the

50-yard butterfly. Sheila Konecke '80, the team's best breaststroker, this time turned to 100-yard individual medley and 100-yard butterfly and won both those events along with her usual win in the 100-yard breast stroke. Brown, who normally swims freestyle, entered the 100-yard backstroke for the first time and won, followed by Barb Belt '77 for the second-place points. (Please turn to page 7)