

## Federal law opens DSA, other records

By Norman D. Sandler  
(First of two parts)

MIT officials are drafting regulations to bring the Institute in compliance with new federal laws governing the keeping of records and dissemination of personal information by educational institutions.

The sweeping new law is part of a package of amendments to the Education Act of 1975, passed earlier this year by the Congress and signed by President Gerald Ford Aug. 21.

In a three-page section of the 130-page law, the bill provides for a right to privacy for parents and students with regard to personal information maintained in files of all state, local and private educational institutions which receive public funds under specific federal assistance programs.

All of these agencies and organizations are required, upon enactment of the statute, to make student files available to parents of children under eighteen years of age or to the students themselves if they are eighteen or older.

The privacy provision of the bill becomes effective next month, at which time MIT will be forced to open up student files to individuals requesting them. Compliance is required within 45 days of the request. Students will be able to see only their own files, and the new law

specifically forbids the release of personal information to third parties or unauthorized persons without the expressed approval of the individual.

There are still a number of uncertainties in the student files law which will have to be clarified by either the federal Office of Education (which is preparing a set of rules for meeting the law's requirements) or the courts, in inevitable court tests once the law becomes effective.

Among the questions facing MIT officials is whether letters of recommendation used in the admissions process and transferred to Deans' Office files will be open for inspection. The law states that all students shall have "the right to inspect and review any and all official records, files, and data... including all material that is incorporated into each student's cumulative folder... including but not limited to identifying data, academic work completed, level of achievement (grades), attendance data... family background information, teacher or counselor ratings and observations..."

However, the letters of recommendation contained in the admissions files are obtained under agreement that they will be kept confidential, and the question remains as to whether that agreement is voided by the new federal law.

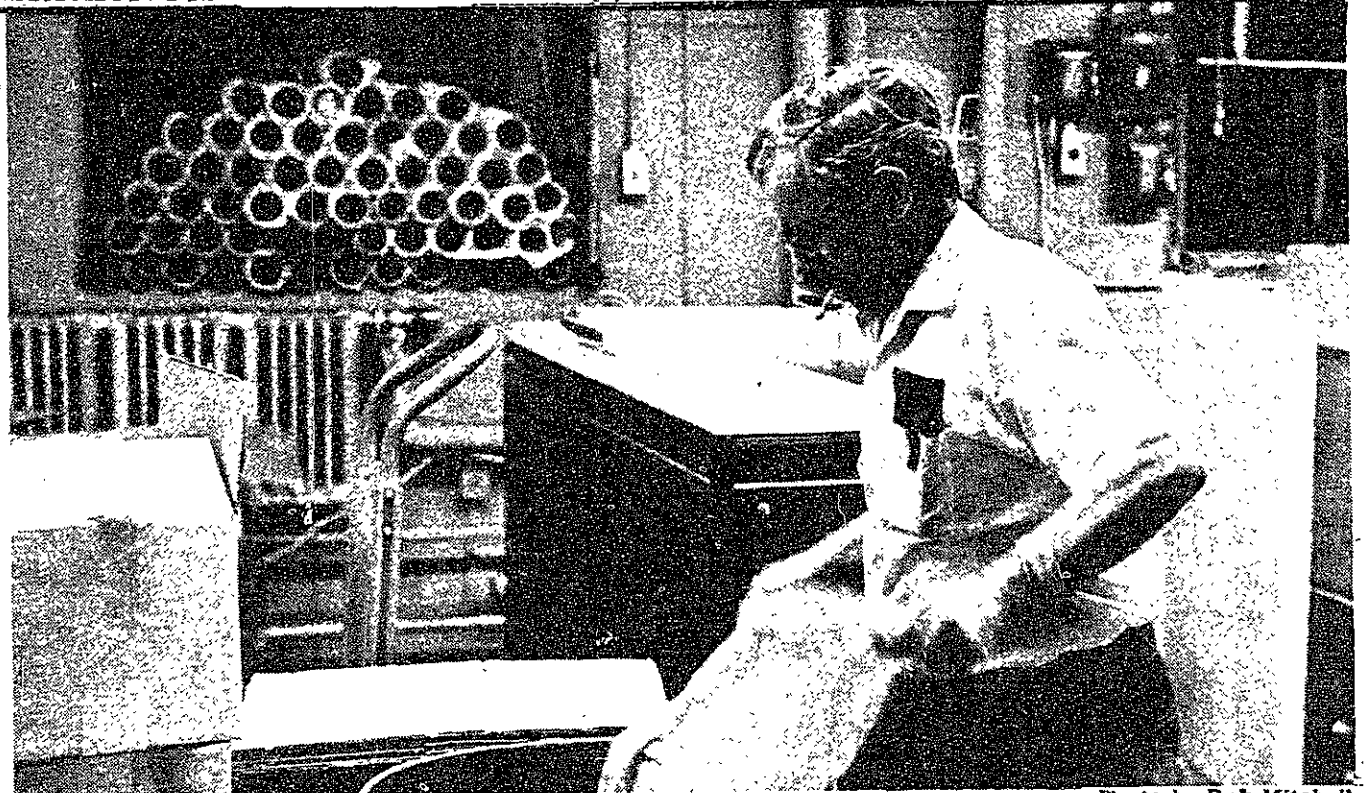


Photo by Rob Mitchell

Custodial and maintenance workers came off the picket lines and back to work Tuesday, and striking Dining Service cooks will start working today, as MIT's month of labor problems is almost over.

## Cooks, SEIU end strikes

By Mike McNamee

Members of the Cooks and Pastry Cooks Association, Local 186 returned to work today, after a decision yesterday morning to end their three-week old strike against the MIT Dining Service.

By a 28-to-9 vote, the cooks decided to begin work while union officials resumed negotiations with MIT to replace their contract with the Institute, which expired June 30.

Commons meals will be served in Walker Memorial and in Baker and MacGregor Houses

today, according to H. Eugene Brammer, head of the Housing and Dining Service. The cooks will make preparations at Lobdell Dining Room in the Student Center so that Lobdell can resume service Saturday and Sunday.

All dining operations, which have been extremely limited during the strike, will return to normal operations Monday.

The union "will pick up the negotiations where we left off," according to Mrs. Mary Stefani, assistant business agent of the union. The union had voted earlier to reject the wage offer MIT made to it and the other two unions representing MIT employees.

Although the decision by the cooks was made only two days after members of the Service Employees International Union Local 254 settled their strike against the Institute, Stefani denied that they were influenced by the actions of the larger union. "We have nothing to do with them, and they didn't influence us either way," she said.

"All the members of our union understand what we are doing, and they are satisfied," said Stefani.

Brammer, when contacted by *The Tech* yesterday, said he was "very happy" to see the cooks back at work. "I know all of these people on a first-name

(Please turn to page 2)

## Nuke risk small, prof's figures show

By Storm Kauffman

Nuclear reactors represent less of a safety risk than most potentially dangerous human-caused and natural events.

This was the conclusion stated by Professor of Nuclear Engineering Norman Rasmussen as he discussed the results of a two-year Atomic Energy Commission (AEC) study in a seminar last Monday.

Rasmussen has been in charge of the \$3 million Reactor Safety Study, which was to estimate the public risks potential in commercial nuclear power plants. The conclusion, as stated in the draft report (WASH-1400) is that "the risks to the public from potential accidents in nuclear power plants are very small... The likelihood of reactor accidents is much smaller than many non-nuclear accidents having similar consequences." (see graph, this page)

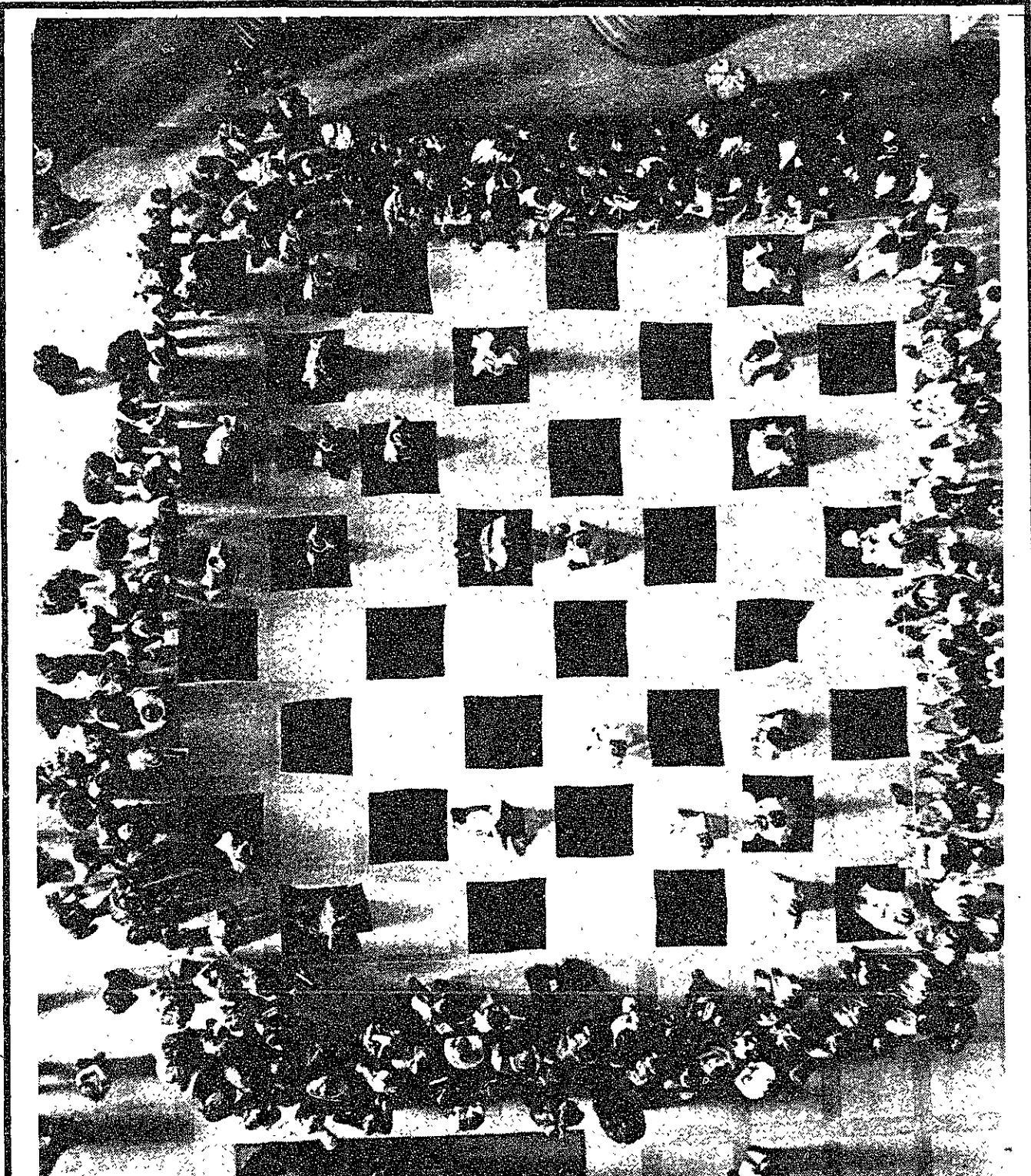
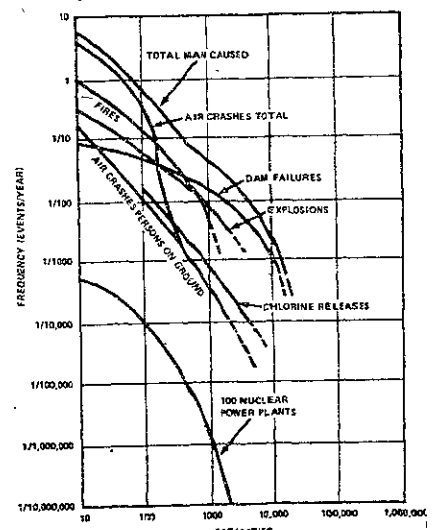
The study concentrated on two aspects. The primary and most difficult to assess was the one involving the determination of the likelihood of an accident of given magnitude for a typical nuclear reactor. With this data in hand, the report then compares the equivalent risk from human acts and natural occurrences.

Calculation of the risk represented by a reactor was very involved. The group used "fault tree" analysis similar to that developed for the aircraft industry (Boeing analysts participated). This method concentrates on the

probabilities that any particular component in the plant will fail and on the interdependency of components to predict the overall possibility of melting the reactor core. Rasmussen stressed that for any serious accident to occur, the core must first be melted.

Because the potential exists for a large magnitude accident, nuclear reactors are the most carefully designed and regulated industrial enterprises. For the core to melt, not only must several redundant systems fail but also the emergency core cooling systems must fail to operate (these are safety systems included in case normal cooling flow is lost). Rasmussen's group estimated the probability of a core melt in any one year as less than one in 170 for 100 reactors operating in the US (projected for 1980).

(Please turn to page 2)



Chess fans sometimes see that ancient game as something larger than life, but seldom have an opportunity to see it played with life-sized pieces. Wednesday afternoon, however, they got that chance, when chess masters Leslie H. Leow '77 and Jerry S. Feitelson '75 directed members of the MIT Chess Club around a Lobby Seven-sized board in a two-game chess duel. Photo by Roger Goldstein

# Cooks return to work; talks to resume

(Continued from page 1) basis, and I'm very glad to see them back," Brammer said.

The end of the cooks' strike means the end, at least for a while, of the Institute's labor problems.

Workers from the SEIU returned to work Tuesday afternoon after they voted to accept an agreement worked out in a 13-hour negotiating session between MIT and union officials Monday.

That agreement, accepted by a 343-to-195 vote of the union membership, provided for a wage package identical to the Institute's original offer, but made several changes in benefits, shift differentials, and involvement of union members in governing their pension plan.

For example, shift differentials — the percentage of regular

pay added to the wages paid to evening and night shift employees — was increased by one per cent, to 5 per cent for evening-shift and 6 per cent for night-shift employees. This change is expected to affect janitors and cleaning personnel, the employees at the bottom of the wage scale, more heavily than other, better-paid employees.

A number of agreements were reached on pensions and leaves, with a \$0.50 increase in the per-month-per-year of service formula for calculating pensions. Funeral and sick leave provisions were also modified.

SEIU officials said they viewed the settlement as a victory for the union. Although the wage package offered by the Institute was unchanged in the final agreement, union president Joseph Sullivan said that the strike

would convince MIT to deal with the SEIU on better terms in the future.

The union officers added that the strike, although it reportedly exhausted 25 per cent of the SEIU's budget for this year, "showed that it is possible, after all, for the people to beat institutions like MIT."

The status of a number of actions taken during the strike, such as a \$4 million libel suit against MIT by union officials, and charges of unfair labor practices against the union by MIT, are still uncertain. MIT officials expressed hope earlier this week that these actions would be dropped, but were not sure what action the union might take.

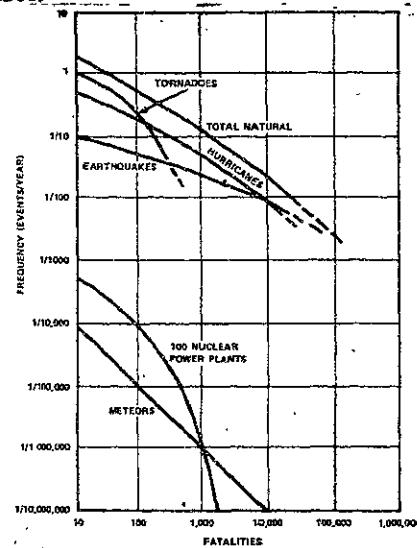
# Nukes safer than man: air wreck risk greater

(Continued from page 1)

As the consequences of the accident increase, the likelihood of its occurrence drop — only one in ten melts is expected to result in "serious public consequences." Overall, Rasmussen stated, an individual runs a risk of one in 300,000,000 of being killed (with 100 operative US reactors), compared to a risk of one in 4000 of being fatally injured in (by) a motor vehicle and one in 10,000 of being killed in a fall.

Critics of the AEC and the reactor industry contend that estimates of failure probabilities are too low and that reactors present far more of a hazard. Rasmussen's group used failure

estimates based on experience in the nuclear and analogous industries to calculate their risk figures.



# Study shows costs at MIT are highest

By Mike McNamee

MIT has moved into first place in the race to find the most expensive college education in the country, a recent study by *Forbes* magazine revealed.

Total charges for an MIT student during the 1974-75 school year, according to the magazine, are \$5,442 — more than Harvard University's \$5,350, Yale University's \$5,300, or Columbia University's \$5,115.

The charges were computed on the basis of tuition, fees, and average room and board costs. The figures were obtained from the colleges surveyed, according to *Forbes*.

But MIT also spends more on its students, according to a "cost of instruction" figure prepared by the magazine. MIT's cost of instruction, based on the expense of educating one student for one year, outranks all others at \$8595. Wesleyan University ranks second with a cost of \$7631, while Harvard and Yale trail with \$5993 and \$7460 respectively.

The figures were part of a table which *Forbes* prepared with comparative data on several sets of colleges. The table accompanied an article detailing the financial crisis now faced by American colleges — a crisis which now worries MIT officials.

MIT, which was ranked with nine other "National Four-Year

Colleges" in the table, compared well with other schools in a number of criteria. In student-to-faculty ratio, for example, the Institute ranked highest among the schools surveyed, with a 5-to-1 ratio. Harvard and Princeton Universities ranked second, each with a 6-to-1 ratio; Yale, Columbia, and the University of Chicago each had ratios of 7-to-1.

MIT also ranked high in the financial aid area, with 48 per cent of all students receiving financial aid either in scholarships, grants, loans, or employment. Only Chicago, with 63 per cent of its students receiving aid, had a higher aid percentage.

In the financial area, however, MIT did not do as well. The Institute had an operating deficit of \$1.7 million, one of the highest in the country among national private universities. Although MIT is not in the financial straits of Columbia, which had a deficit of \$5.8 million last year, or Chicago, with a deficit of \$4 million, it was not in as good condition as Harvard, or Wellesley College, both of which had surpluses last year.

The *Forbes* figures were obtained from the schools involved in the survey and from statistics available at the University of California Davis campus.

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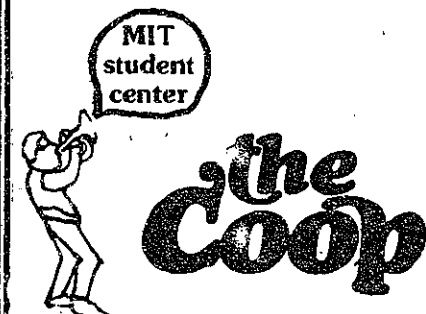


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## In Case of Insomnia Nuclear Safety

By Storm Kauffman

For all you doubters out there (shame on you), this is one subject about which I know something.

Those who picture nuclear reactors with overhanging mushroom clouds have a totally erroneous conception of the reactor hazard. A reactor cannot explode, its nuclear material is too diffusely scattered throughout tons of structural material.

The danger lies in the massive quantities of radioactivity held in the core of a reactor that has been operated for any period of time. Nuclear proponents and opponents alike agree that this radioactive inventory could cause a major catastrophe if ever released. Where they differ is on the likelihood of any release and the magnitude of the release.

The commercial nuclear power industry has grown up amidst the most stringent design and operating license requirements of any industry. Unfortunately, the Atomic Energy Commission was created by Congress to not only regulate the nuclear industry but also to promote its growth. These two somewhat contradictory functions have opened the AEC to sometimes valid claims of conflict of interest. On the other hand, people in the industry often feel that, for just these reasons, the AEC is overly stringent about compliance.

The fear of radioactive release has led the AEC to require that each and every plant be carefully studied for possible failure points. Any vital system must have a backup and nearly a third of the capital cost of the plant goes into this redundancy and other emergency systems. The AEC can continue to require more and more complicated backups, but the industry is reaching the point of diminishing returns on safety (spending millions for infinitesimal improvements). As Professor of Nuclear Engineering Norman Rasmussen (head of the recent REactor Safety Study) has indicated, one must decide if this money might not be spent somewhere else and save more lives by that other use.

Anyway, one of today's reactors represents a convolution of backup and safety systems which are designed to prevent the one dangerous thing a reactor can do — melt its core. The radioactivity is normally contained within a ceramic fuel material which is further contained inside metal cans called clad. These structures form the core which is held within a leak tight reactor pressure vessel.

If the radioactivity manages to escape the pressure vessel, it must make its way out of the containment building, a huge leak resistant structure designed to maintain its integrity in event of an accident. If the radioactivity manages to get to the outside, a series of circumstances (weather conditions, population density) must combine for the accident to endanger large numbers of people.

The probability of a given accident is the product of probabilities that each failure will occur. The Rasmussen safety study evaluated the chance of a core melt as less than one in 17,000 reactor years (a reactor year is one reactor operating for one year; 1000 reactor years would be 100 reactors operating ten years, etc.).

In summary, 100 reactors represent less of a risk to an individual's life than do cars, falls, fires, drowning, air travel, being hit by falling airplanes, lightning, hurricanes, or earthquakes.

In over 200 reactor years of operation, no member of the public has ever been directly killed by a reactor. Delayed health effects are estimated as less than those caused by natural accidents and other human activity.

Jack Anderson

# Secret Service v. the Kennedys

By Jack Anderson

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WASHINGTON — The recent kidnap scare against the children of the late Senator Robert Kennedy nearly precipitated a rebellion within the ranks of the Secret Service. Some 60 agents were flown in from all over the country to cover the Kennedys — a move they regarded as illegal.

Indeed, Secret Service Director Stuart Knight himself recommended against extending protection, but he was overruled by his boss, Treasury Secretary William Simon.

Then the agents learned they were not responding to a "threat" at all. They had been ordered on emergency duty as a result of a third hand tip from a police informant in the Boston area. The agents were furious.

Covering the Kennedys is a chore the Secret Service largely regards as abhorrent anyway. Much of the ill feeling results from the agency's experience with Jacqueline Kennedy Onassis.

The law requires the Secret Service to protect the late President Kennedy's children until they turn 16. Thus they are still looking after young John. But Mrs. Onassis is extremely particular about the way the agency does its job. One insider describes her as "persnickety." She doesn't want John to feel oppressed by his protectors, so she demands the agents stay out of sight as much as possible.

Nor does young John himself like the protective details following him around. A few months ago, he slipped out of Jackie's New York apartment, hopped on his bike, and sped into Central Park to play tennis. A drug addict assaulted him and made off with the expensive bike.

Through some extraordinary detective work, the police tracked down the assailant. But Mrs. Onassis refused to prosecute.

Secret Service insiders were flabbergasted. Now they are thinking of laying down the law to Jackie: Either she lets them do their job the way they want, or her protective detail will be lifted.

### Economic Battle Plan

White House sources say President Ford has all but made up his mind on change in economic policy.

The President received a lot of free and conflicting advice at the recent economic summit conference. But in private meetings with his closest advisors, he had little trouble mapping out a battle plan.

First, the President plans to ask for a tax cut to ease the impact of inflation on the poor. He also is seriously considering giving industry some incentives to expand production.

Next, he plans a whopping 10-cent-per-gallon increase in the gasoline tax. Ford plans to use the money for a public jobs program. This will ease the unem-

ployment caused by his continuing tight money policy.

The President also hopes that the increase in gasoline prices will help drive down consumption. This would give him a stronger bargaining position with the oil-rich Arab nations of the Middle East.

The Arabs were unimpressed, our sources say, by Ford's recent swordrattling. The President obliquely threatened economic sanctions against the oil-producing nations if prices continued to rise.

The Arabs know that they literally have us over the barrel. And they feel confident that the United States will not dare to take action against them.

It all boils down to higher gas prices for consumers, along with higher food prices. Only industry, and the very poor, can hope for some relief from inflation.

### Cuban Thaw

Upon their return from a recent trip to Havana, Senators Claiborne Pell, D-R.I., and Jacob Javits, R-N.Y., predicted that relations between Cuba and the United States would soon improve. Already, say our sources, Secretary of State Henry Kissinger is quietly guiding the United States toward a detente with Fidel Castro.

The probability that normal relations will be restored with Havana has outraged the million Cubans who fled to this country to escape Castro. Many of them lost their fortunes; others have friends and relatives in Castro's prisons.

For years, the Central Intelligence Agency has trained exiled Cubans to do battle with Castro. Many more risked their lives on commando raids. Now the government that encouraged them to fight is preparing to befriend the Communist leader.

We have had detailed discussions with Cuban underground leaders. Although, they have a tendency to exaggerate, there is no question about their boiling anger. They are threatening to mount a terror campaign inside the United States against the politicians and businessmen who support Castro. These Cuban leaders have told us if they can't fight Castro in Cuba, they will fight him here.

Intelligence analysts are predicting, therefore, that at least a few extremists, in imitation of the Palestinian and Irish rebels, will carry out acts of terror in the United States.

### Footnote

Castro's relations with the Soviet Union are not as rosy as the Communist press make them appear. According to reliable sources in the Cuban underground, two Russian sailors were jailed last year for stabbing to death a Cuban youth. The sailors had been selling the boy hard-to-get items for the Cuban blackmarket. They caught a glimpse of the youth's hefty bankroll, killed him for it, and tossed him into the sea. The Soviet

sailors were thrown into El Morro prison and are now doing time at the Bacuranao work camp for criminals, near Havana.

### Washington Whirl

Some people see Henry Kissinger as a steely Prussian, but in truth he's not above telling a joke on himself. Recently, he told friends that during the Kennedy Administration, he had dinner at the White House with JFK, Robert Kennedy, and Secretary of State Dean Rusk. Kissinger was so nervous that when he cut his lamb chop it scooted all the way over to Rusk's plate. That, said Kissinger, was the last time he was invited to the White House for 12 years . . . . At one time, according to our sources in the intelligence community, the CIA had a grisly system for determining the money due its Laotian mercenaries. The agency instructed the troops to verify their claims by chopping off the ears of every enemy killed. The practice was terminated when the CIA realized there was no way to be certain that every pair of ears turned in had once been attached to a Communist head.

Continuous News Service

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Since 1881

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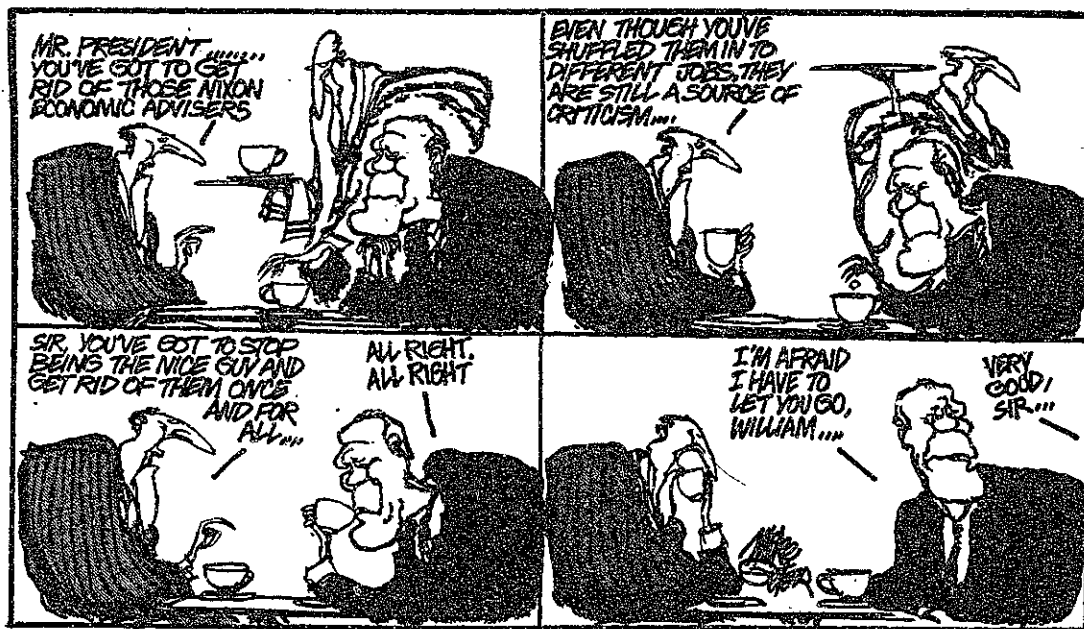
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Mike Peters

### THE WIZARD OF ID



by Brant Parker and Johnny Hart

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# Letters To The Tech

## UA Section

To the Editor:

This is just a brief note to comment on one specific aspect of *The Tech*. As you are well aware, student government at MIT has usually been regarded as a joke, and I believe that it was at one time proposed that the Undergraduate Association be disbanded. I for one feel that despite its shortcomings the UA has the potential for becoming a viable part of MIT. However, it needs the support of the students and student organizations. In this respect I am very glad to see that *The Tech* has finally given some space to the UA. This is vital if the UA is to have even half a chance to make a go at it. (Such a section should have existed long ago.) The student body must be informed as to the activities and efforts of the UA. Lack of the same probably contributed to its previous state of atrophy. I think that is changing. Continued and increased support of the UA will make it a viable organization. In providing space in *The Tech* through which it can speak, the UA has been given a vital missing organ. I hope that your newspaper will continue to provide this service as it is an important one.

Robert Miller '77

The Tech will no longer be running the "UA News" Section - Editor.

## Completing I's

To the Editor:

The article in last Tuesday's *The Tech* on new procedures to be followed by the Committee on Academic Performance regarding completion of Incompletes by seniors will be very helpful in alerting students who may be affected by these changes. Although I was quoted with admirable accuracy by your reporter, the article did not spell out all the details of the Committee's resolution. We have prepared a memorandum on this subject which is being mailed to all students currently registered as seniors. Since a few students who are not yet registered as seniors may also be eligible for degrees this year, we have no doubt missed a few who should have received the memorandum. For those students, copies of the memo can be obtained from the CAP office, Room 10-191.

James L. Kinsey  
Chairman, CAP

(Part of that memo is reprinted below - Editor)

Subject: Special Deadlines for Completion of Work by Degree Candidates

Over the last few years there has been a growing number of problems of uncertainty in the records for some students on the degree list at the time the Committee

(on Academic Performance) meets to approve undergraduate candidates for degrees. This has resulted, in a couple of instances, in students being removed from the degree list and not receiving their degrees when they had in fact completed all the required work in time, and there have been many more near-misses of this kind. In the hope of forestalling repetition of these difficulties in the future and thereby reducing the risk of a student being removed from the degree list erroneously, the CAP has outlined the following procedures to be followed by graduating seniors in making up previous work required for their degrees. *These deadlines will be adhered to by both the CAP and the Registrar, and failure to meet them will result in the delay of the degree.*

### 1) Completion of Incompletes

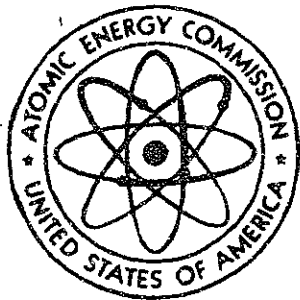
According to the Rules and Regulations of the Faculty, work for completion of the grade of I in lecture subjects must be completed not later than the end of the fifth week of the succeeding term of the regular school year. For design subjects and Electrical Engineering Laboratory subjects the deadline is the end of the academic term succeeding the one in which it was received, and for non-Electrical Engineering Laboratory work the deadline is one year from the date incurred. Beyond these limits, Incompletes may only be completed by successful petition to the CAP. The CAP will imple-

ment these Faculty rules for seniors in their final term in the following ways:

A. For Incompletes received in the previous term in lecture subjects, the five-week deadline will be strictly adhered to. This current term only will be treated as a special case in that the deadline for completion of the work will be set at Drop Date (November 27, 1974).

B. For old Incompletes requiring action of the CAP on a petition, the Committee will insist on receiving all such petitions by the end of the fifth week into the term. Each such petition must be accompanied by an agreement, signed both by the student and the instructor in charge of the subject, giving: (i) a date by which the work is to be completed and handed in to the instructor and (ii) a date by which the instructor agrees to submit a grade to the Registrar's Office. In no case is the agreed-upon date for submission of the grade to extend beyond the last day of the term as defined below. For the present term, the deadline for submission of a petition will be extended to the Drop Date.

C. For Incompletes in Laboratory and Design subjects still within their statutory limits, the CAP strongly urges that each student intending to complete work submit to the Committee the same kind of agreement described in the previous section.



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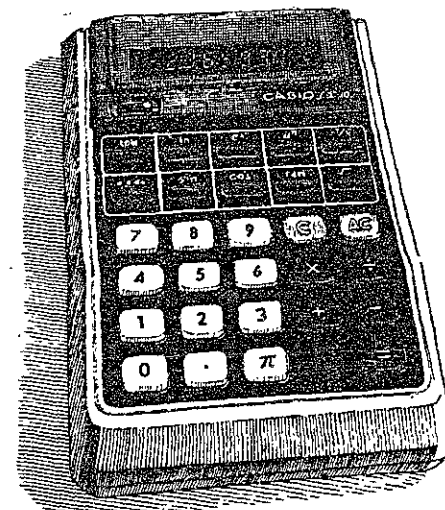
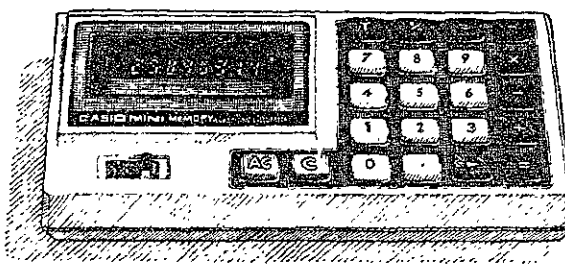
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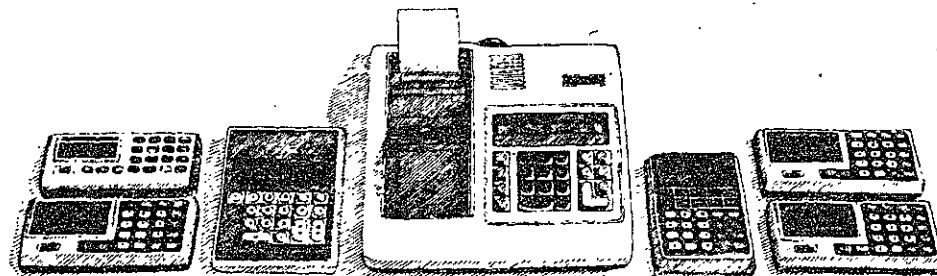
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## Police Blotter

Police Blotter is a weekly compilation of Campus Patrol Activities on and off the MIT campus. Items for the Blotter are selected by the Patrol.

10-1-74

A report was received of the attempted larceny of a motor vehicle parked on Memorial Drive in the vicinity of Burton House. The right window was forced and the ignition had been removed. The MDC was notified of this attempt.

10-3-74

The Campus Police was notified of an assault and battery that had been committed on a female employee the preceding day. The incident took place in Building 7 on the fourth floor hallway. A description was taken of the offender and patrol officers were advised to check this area.

10-3-74

An occupant of Building 3 reported the removal of a lock from a door early in the even-

ing and the larceny of the door at a later time. The Campus Police are now seeking both the lock and the door.

10-3-74

A report was received of the larceny of a camera valued at \$550 from a locked room in the Ashdown House. There was no evidence of a breaking and entering into the room. The occupant stated that the room was secure when he left and when he returned.

10-4-74

An occupant of MacGregor House reported the larceny of a telephone from outside his room. The owner stated that the telephone was left outside his room during the night for the benefit of the fellow students. The possibility of the phone annoying the students in the

immediate area was taken into consideration during the investigation.

10-5-74

The Campus Patrol was notified of a female who had been picked up hitching on Mass. Ave. near Central Square and was at present opposite the Killian Court on Memorial Drive and was threatening to jump into the river. The subject was taken into custody by the Campus Police and turned over to the MDC Police to be transported to the Mass. General

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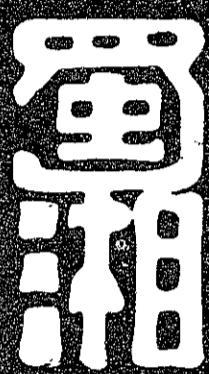
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Su-Shiang offers the hottest, spiciest & best Szechuan food in town. Real Paper, July 10, 1974

Su-Shiang is a relatively new establishment. Good Szechuan food should make you sweat, and Su-Shiang's dishes certainly did. Su-Shiang's service was excellent, and the room was spacious, family and all together right on. The Boston Phoenix, Aug. 27, 1974

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The scenes make Last Tango in Paris look like a sixth grade dancing class. -RKO General Radio

Sometimes pornographic, generally subversive, but always brilliant. -Martin Mitchell, After Dark

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### Campus Interviews

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# Shutouts win for LCA & SAE

By Darwin Fleischaker

The first half of the Intramural touch football season came to an end last weekend as 66 of the teams once again went through the grueling ritual required by the sport in order to attain the number one position in their respective leagues.

In A league competition, SAE and LCA were once again both victorious, SAE outclassing Phi Gamma Delta, 14-0, and LCA beating the Black Student Union 13-0. Once again both games were heavily laden with penalties, mostly due to the high excitement and total involvement of the players in their quest for the A league crown.

The first game Sunday afternoon was dominated by SAE as Pat Schultz '74 once again showed excellent poise at quarterback, completing more than a dozen passes to Dave Yauch '75 and Roy Greenwald '75.

SAE opened the scoring early in the second quarter when Schultz completed a 15-yarder to Yauch, followed by a ten-yard touchdown pass to Greenwald. Three minutes later, SAE's Dean Brooks '77 rushed FIJI's quarterback and successfully nailed him in the end zone; the resulting safety put SAE ahead 8-0.

Schultz wasted no time as the second half began. After two plays, he unleashed a 60-yard bomb to Bob Scott '77, who, upon receiving it, ran ten more yards to bring SAE into scoring position once again. Thirty seconds later, Greenwald caught another ten-yard touchdown pass for the final SAE score.

Immediately after this game, BSU began its battle with LCA. Despite the outcome, BSU's offense dominated, while its defense held LCA to very little yardage. Three people were responsible for LCA's win: Brian Harrington '77, Don Proper '76, and Mark Abkowitz '74.

In the first half, Harrington stole the ball right out of the

hands of BSU's quarterback and ran 70 yards for an LCA touchdown. With only minutes remaining to be played, BSU was threatening to tie the game when LCA's Proper intercepted a pass and ran 90 yards for the second score.

Mark Abkowitz, who kicked an extra point, must be the best punter-kicker-extra point specialist in the whole IM program. If it were not for him the score might have been very different. BSU's offense was highly potent and all it needed was time; when Abkowitz continuously kicked the ball to the BSU goal line, BSU had to work long and hard to get back into scoring position.

Other good LCA performances came from Jim Ogletree '76 and Marty Zartarian '75, quarterback John Cavalowsky '76 and safety Baxter Jones '76

who intercepted a BSU pass.

BSU's offense was led by Captain Elijah Brewer G, Johndel Brown '75, and Ron Parker '74. It seems nothing could stop this combination as pass after pass would be completed, and ten to 15 yards would be picked up on running plays alone. Brown was by far the outstanding offensive player in this game, as he made incredible receptions and ran with unusual agility and balance. Mike Hartwell's (G) ability as a running back also contributed greatly to his team's effort, as did the receiving of Ken Armstead '75.

BSU's line deserves a lot of credit, especially center Michael Thomas '75. Defensively, BSU was almost impenetrable; outstanding was Glenn Simpson, who intercepted two LCA passes.

## IM Soccer Standings:

A league	W	L	T	P	C1 league	W	L	T	P
Hellenic	3	0	0	6	MacG 'E'	2	0	1	5
Africans	2	1	0	4	ATO	1	0	2	4
Sr Hse/Aero	1	1	1	3	KS	1	0	1	3
TC	0	1	2	2	PKS	1	1	0	2
Math	0	1	2	2	Burton 3rd	0	1	2	2
Earth & Plan	0	2	1	1	MacG 'I'	0	3	0	0

B1 league	W	L	T	P	C2 league	W	L	T	P
TDC	2	0	1	5	CP	2	0	1	5
1169	1	0	2	4	SAE	1	0	2	4
PBE	0	1	2	2	Smokers	1	1	1	3
Economics	0	2	1	1	MacG 'H'	1	1	1	3
					ZBT	1	2	0	2
					Bexley	0	1	1	1

B2 league	W	L	T	P	C3 league	W	L	T	P
LCA/DU	2	0	0	4	East Campus	2	0	0	4
SC	2	0	0	4	TX	2	0	0	4
PLP	0	2	1	1	Baker 'C'	0	0	3	3
Biology	0	2	1	1	DKE	1	2	0	2
					MacG 'A'	1	2	0	2
					Rus Hse/Con 3	0	2	1	1

B3 league	W	L	T	P	C4 league	W	L	T	P
Baker 'B'	2	0	1	5	FIJI	0	0	1	1
Nuclear Eng.	1	1	1	3	PSK	0	0	1	1
PDT	0	1	1	1	NRSA	0	0	1	1
AEPI	0	1	1	1	Conner 4 & 5	0	1	1	1

B4 league	W	L	T	P	C6 league	W	L
DP	3	0	0	6	EC '2E'	3	0
Conner 'B'	2	1	0	4	PSK	2	1
DTD	0	2	1	1	Conner 5	2	1
SPE	0	2	1	1	Economics	1	2
					EC '3E'	1	2
					ET	0	3

## IM football standings:

A league	W	L	C1 league	W	L	C6 league	W	L
LCA 'A'	3	0	Bexley	3	0	EC '2E'	3	0
SAE 'A'	2	1	SAE 'C'	3	0	PSK	2	1
BSU	1	2	FIJI 'C'	2	1	Conner 5	2	1
FIJI/East Campus	0	3	AEPI	0	3	Economics	1	2
			Inorg. Chem.	0	3	EC '3E'	1	2
						ET	0	3

B1 League	W	L	C2 league	W	L	C7 league	W	L
Baker Trojans	3	0	Fenway House	3	0	TDC	3	0
SAE 'B'	2	1	TX	2	1	Hydros	2	1
BTP	2	1	Jarbongo's	2	1	EC '4W'/Org	2	1
LCA 'B'	1	2	Conner 3	0	3	NRSA	1	2
Sr. Hse./Grad.	0	3	MacGregor 'C'	0	3	MacGregor 'T'	1	2
						Stud. House	0	3

B2 league	W	L	C3 league	W	L	C8 league	W	L
SPE	2	1	CP	3	0	EC '5W'	2	0
Ashdown	2	1	PKA	2	1	BLOS	1	1
PDT 'B'	1	1	Burton 1	2	1	Burton 2	1	1
Chemical Eng.	1	1	PDT 'C'	0	2	KS	1	1
Metallurgy	0	3	MacGregor 'A'	0	3	DKE	1	1
						Baker C3	0	2

B3 league	W	L	C4 league	W	L
DU	3	0	Smokers	2	0
PLP	2	1	Math	2	1
Sloan	1	2	MacGregor 'H'	2	1
DTD	1	2	Baker 'C'	1	2
TC	1	2	Club 21	0	3

B4 league	W	L	C5 league	W	L
SC	3	0	PKS	3	0
Plumbers	2	1	Jack Florey	2	1
ZBT	1	2	ATO	2	1
Trojans	1	2	Bombers	2	1
Tang	0	3	PBE	1	2
			PMD	0	3

# Sports



Richard Wachnick '76, a running back for B1 league's Senior House/Graduate team carries the ball in IM football action. Senior House/Graduate has yet to win this season. Photo by Ed McCabe

## IM football results:

A league	W	L	T	P
SAE 'A'	14	0	0	0
LCA 'A'	13	0	0	0

B leagues	W	L	T	P
Baker Trojans	41	0	0	0
LCA 'B'	8	0	0	0
BTP	14	0	0	0
Chem Engineering	22	0	0	0
SPE	15	0	0	6
DU	19	0	0	0
Plumbers	18	0	0	13
PLP	14	0	0	12
SC	33	0	0	0
ZBT	8	0	0	0

C leagues	W	L	T	P
Burton 5 Smokers	10	0	0	6
SAE 'C'	18	0	0	0
Fenway House	27	0	0	0
Bexley	28	0	0	0
TX	24	0	0	0
Jarbongo's Raiders	13	0	0	0
PKA	28	0	0	6
Baker 'C'	1	0	0	0
CP	55	0	0	8
MacGregor H	33	0	0	0
BTB	6	0	0	2
PKS	14	0	0	12
Jack Florey	21	0	0	0
EC '2E'	12	0	0	2
EC '3E'	24	0	0	6
PSK	20	0	0	6
Hydros	32	0	0	0
EC '4W' & Organ. Chem.	27	0	0	0
TDC	12	0	0	6
EC '5W'	6	0	0	4
BLOS	23	0	0	0

Technology and Culture Seminar  
Lecture Hall 9-150  
Thursday, October 17, 1974  
5:15 P.M.

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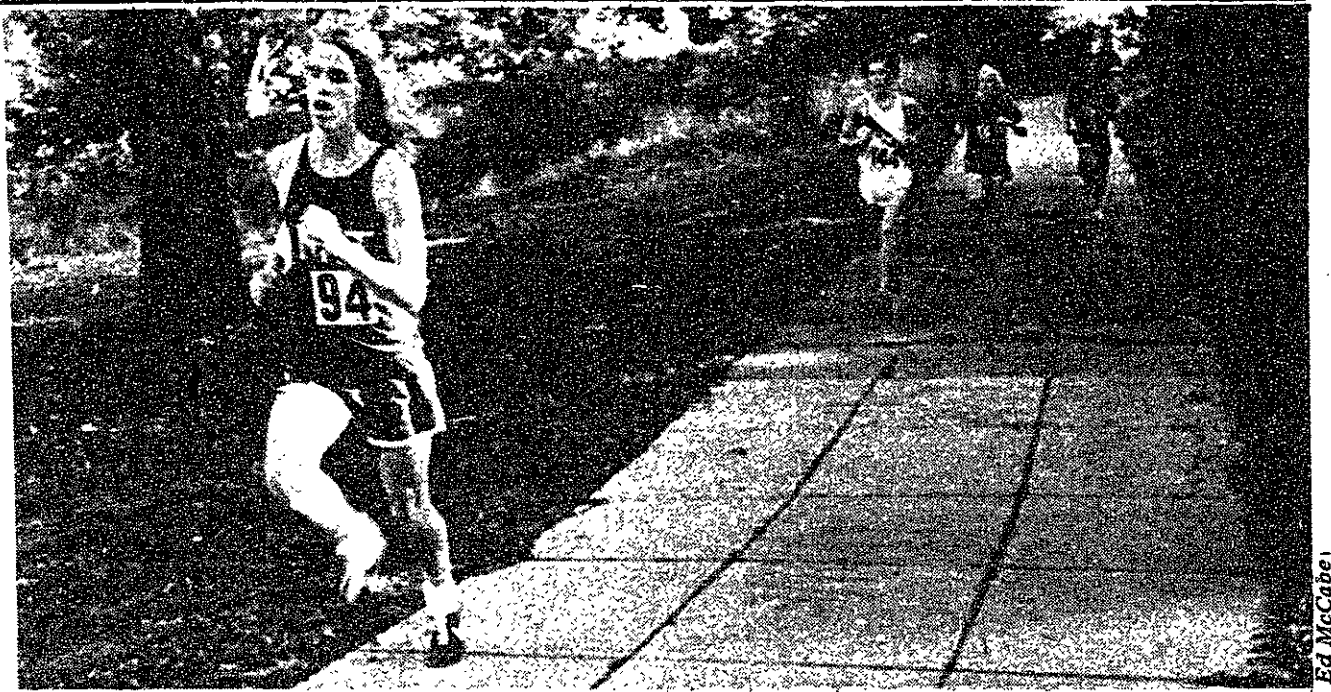
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# Sports



Frank Richardson '77 shows some of the form that has earned him an undefeated dual meet record thus far. His first place finish on Wednesday helped MIT to squeak by UNH 27-28. Photo by Ed McCabe



Chris Svendsgaard '78 leads three other competitors in Wednesday's upset of UNH. Trailing for MIT are Al Carlson '75 and Jeff Baerman '76. Svendsgaard went on to finish fourth in the race.

## Richardson leads harriers

By Dave Dobos

Sophomore Frank Richardson led the MIT cross country team to a 27-28 upset victory over the University of New Hampshire Wednesday at Franklin Park.

The Engineer runners displayed a prowess not seen in many years as the top six men bettered 26:30 over the five-mile course.

Richardson won his third dual meet in as many tries, easily outdistancing his closest competitors in a time of 25:04.

Freshman Chris Svendsgaard, now fully recovered from an early season illness, ran a phenomenal race, placing 4th (2nd for MIT) in 25:32. Jeff Baerman '76, captain Courtney McCracken '76, Al Carlson '75, and Steve Keith '77 repeated the tremendous team effort of last Saturday's Coast Guard meet to extend MIT's winning streak to three.

The victory over UNH, a Division I university (MIT competes in Division III Athletics), ended New Hampshire dominance of the annual event and improved the team's record to 4-1, the best start for MIT in years.

Coach Pete Close stated that Wednesday's performance indicated that this is the fastest MIT team since the Franklin Park

course was changed from 4.7 to 5.0 miles. The runners, gaining more and more confidence in themselves, have remained at an emotional high point since defeating Coast Guard. A post-season trip to the Nationals in Wheaton, Illinois, is quickly becoming a reality for the squad.

Tomorrow morning, both the varsity and JV (4-0) take on Boston College and Lowell Tech on the Franklin Park course.

Listed below, with times and places in parentheses, are the top seven finishers for MIT:

Frank Richardson	(1)	25:04
Chris Svendsgaard	(4)	25:32
Jeff Baerman	(5)	25:56
Al Carlson	(7)	26:04
Courtney McCracken	(10)	26:20
Steve Keith	(11)	26:26
Doug King	(16)	27:17

## Heavies dominate at Lowell

By David I. Katz

The MIT varsity heavyweight crew travelled to Lowell, Massachusetts, last Saturday for the 1974 Lowell Fall Festival Regatta. Of the 22 Engineers who took part in MIT's largest entry ever in this regatta, all but one came home with a first place medal.

The first event entered was the Intermediate Pairs. Rowing for MIT was: Bow-Jeff Clarke '76 and stroke-Tom Higgins '75 along with bow-Joe Healy '77 and stroke-Doug Johnston '76. Both pairs had trouble with the rough water and finished second and fourth, respectively, out of five entries.

MIT's next competition was in the Senior Heavyweight Fours with Coxswain. The original entry was to have been: bow-Mitch Seavy '76, 2-Wes Van Voorhis '77, 3-Will Sawyer '77, stroke-Brian Wellendorf '77, and cox-Al Knosp '75. However, Van Voorhis, due to an attack of acute appendicitis, was replaced by John Everett '76, who had to row port instead of his usual starboard. Despite this handicap, the boat won easily over Williams and Lowell Tech in a time of 7:06.

Immediately after this race, Everett rowed in a pair with Al Shealy of Harvard, the stroke of the US National Heavyweight Crew. They were entered in the Elite Pair event but were not eligible to win officially as they entered the race after the deadline. Surviving severe steering problems, this pair won the event by three feet over a boat from Northeastern. MIT's official entry of bow-Jim Gorman '75 and stroke-Gary Piantedosi '76 finished fourth.

MIT also entered the Intermediate Fours with Cox event with: bow-Carl Wales '76, 2-Carl Lofgren '75, 3-Spencer Pearson '77, stroke-Mark Pickrell '76, and cox-Mike Newman '76. These rowers were outclassed, as other schools entered some of their best varsity oarsmen in this race in an attempt to win an easy trophy, and finished fourth in a field of six.

The Engineers returned to their winning ways in the Senior Pairs as Craig Christensen '76

and Peter Beaman '76 rowed to an easy victory over an entry from the Quebec Rowing Federation.

The next-to-last race of the day was the Intermediate Eight. The oarsmen in the MIT boat were: bow-Wales, 2-Seary, 3-Clarke, 4-Sawyer, 5-Mark Dahl '75, 6-Lofgren, 7-Healy, stroke-Wellendorf, and cox-Knosp. All except Dahl had rowed at least one race earlier in the day.

Getting a good start off the line, the Worcester Tech varsity was able to hang in for about 700 meters. At that point, the Engineers brought the cadence up two strokes per minute for a power twenty and moved into a comfortable lead. A closing charge by Coast Guard proved to be too little and too late as MIT won by a half length in a time of 6:26.6.

The last event of the competition was the Elite Eights, in which only two boats were entered, one from MIT and an unaffiliated boat listed on the program as the "Sculler's Eight". This second entry included

## 1-0 loss is soccer's 5th

By Glenn Brownstein

In a rough game marked by heavy body contact, repeated fouling, and two ejections for unsportsmanlike conduct, MIT's varsity soccer team dropped a 1-0 decision to Boston University Wednesday night at Nickerion Field.

It was the fifth straight loss for the injury-plagued Engineers (last year's leading scorer, Shin Yoshida '76, and one of MIT's defensive leaders, Paul Fernandez '76, are both out with knee injuries) and the fourth time this year that the Engineer eleven has been shut out.

As has been the case many times this year, the MIT loss was due to a lack of offensive punch and more specifically, a lack of communication and organization on the field, as BU attackers consistently beat MIT players to the ball and worked a fast-moving passing attack around the Engineer defense.

Shealy of Harvard, and Calvin Coffey of Northeastern's varsity. Rowing for the Engineers were: bow-Pickrell, 2-Higgins, 3-Johnston, 4-Piantedosi, 5-Everett, 6-Gorman, 7-Christensen, stroke-Beaman, and cox-Newman.

After rowing stroke-for-stroke for the first 1000 meters, the Engineers began to pull away. They had a lead of 1 1/4 lengths as they crossed the finish line in a time of 6:16.1, 6.5 seconds faster than the "Sculler's Eight".

The next race on this fall's rowing schedule is the Head of the Charles Regatta on Sunday, October 27.

This year's regatta should be the most important in its ten-year history with the expected entry of the USSR National Team. It will also bring most of this nation's best oarsmen and oarswomen including IRA champion Wisconsin. The races start at noon near the BU Bridge and finish three miles upstream near the WBZ tower on Soldier's Field Road.

The loss of Yoshida and Fernandez was certainly noticeable, as the Engineers could not find a play finisher to cap off an upfield drive, and allowed BU a number of partial breakaways, including a two-on-none (one leading attacker, one trailing) situation that led to the Terriers' only goal.

With about 25 minutes gone in the first half, a BU halfback chipped the ball over the MIT halfback line to the Terrier right wing, who outraced fullback Brad Morrison '78 to the ball and broke down the side about one step in front of the charging Morrison. Brad recovered enough to deflect the ball in front of the goal to Engineer goalie Charlie Sommer '76, who tried to make the save, but the ball was kicked away from his grasp by the breaking BU trailer and shot in just inside the right-net post.

The Engineers had a few scor-

## Frosh gain sailors' sole success

By Ilija Kobylak

The MIT sailing teams participated in five regattas last weekend, highlighted by a first place finish in the University of Rhode Island Invitational.

Freshmen skippers Martie Lurie and Wally Corwin placed first at URI. Lurie was low point skipper, winning four of five trials.

The men's varsity placed third in the Boston University Invitational sailed in interclub dinghies. The A-division entry was skippered by Larry Dubois '76, while Steve Ryan '77 was low point man in the B-division. The competition was very tight as the top three teams were within three points of each other. The score was Tufts 25,

ing opportunities later in the game, most noticeably a break-away by Esref Unsal '75 with about twenty minutes left in the game that he could not quite control, and a Frieder Krups '77 corner kick that appeared to be on its way into the net, only to be punched out by th BU goalie, who somehow fought through a crowd of MIT and BU players to stop the shot.

MIT goalie Sommer played an excellent game despite giving up the contest's lone goal, making many diving stops on difficult shots, including a diving deflection midway in the second half of a BU shot away from the net, where it surely appeared headed.

The Engineers, whose record is now 0-5 (losses to Harvard, Holy Cross, WPI, Trinity, and BU), will attempt to end their slump Saturday against Middlebury at Briggs Field. Game time is 2:00.

Harvard 26, MIT 28, URI 31, and Coast Guard 42.

The men's varsity placed fifth out of 15 squads in the Danmark Regatta held at the Coast Guard Academy on Saturday. The MIT team consisted of A-division skipper Chuck Tucker '75 with crew Chuck Johnson '76 and B-division skipper Paul Erb '76 with crew Steve Gourley '77. The top five schools were Tufts 98, URI 105, Yale 120, Harvard 123, and MIT 133.

Skipper Bill Critch '77 with crew Steve Ryan '77 in A-division and Rob Parker '75 and Stan Stone '76 in B-division led MIT to fifth in the Donaghy Bowl at Holy Cross. Harvard and Tufts tied for the win with twelve points each, followed by Brown with 25, BC 27, MIT 31, URI 33, Coast Guard 35, and Holy Cross 41.

The MIT women's team also was active, hosting the Emily Wick Lark Championship, a one-division regatta. Ellen Schmidt '77, Barbara Belt '77, and Allana Connors '78 paced MIT to fifth place in the nine-team, nine-race event. The score was Radcliffe 20, Wellesley 28, Jackson 28, Simmons 35, MIT 42, Northeastern 51, Mt. Holyoke 76, Salem State 66, and BU 72.

The women's team sponsored a sailing workshop this weekend. 75 people representing 16 schools were in attendance. Among the MIT participants in the clinic were coach Stu Nelson, alumnus Maria Bozzuto '73, and team members Ellen Schmidt '77, Barbara Belt '77, Lila Kobylak '75, Sally Husted '78, Allana Connors '78, Debbie Samkoff '77, and Zoraida Navarrio '78. Terry Cronberg, nationally known in sailing circles for his cunning tactics and sportsmanship, made a guest appearance with a talk on rules.