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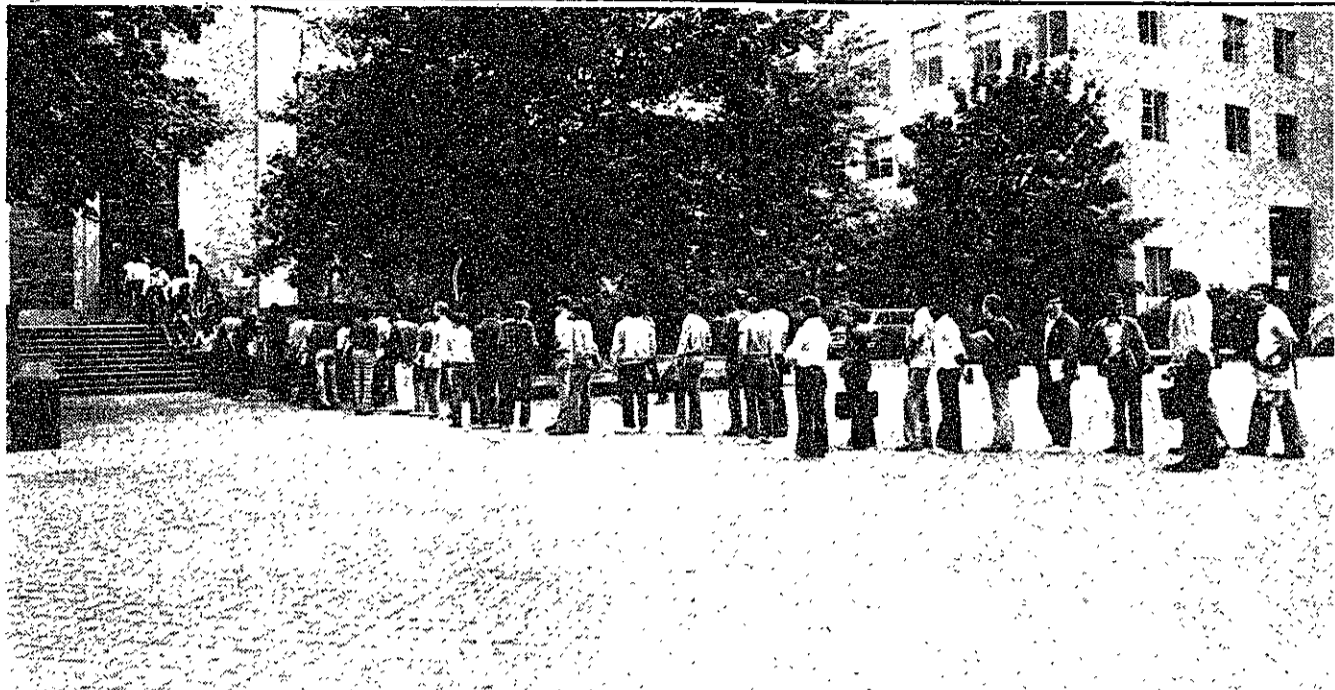
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VOLUME 94, NUMBER 32

MIT, CAMBRIDGE, MASSACHUSETTS

FRIDAY, SEPTEMBER 20, 1974

FIVE CENTS



Students lining up for their Commons meals in Walker Memorial had to wait longer than they expected Wednesday, the first day of the strike by Dining Service cooks. Walker was the only dining hall on campus open. (Photo by Rich Reihl)

MIT cites 'threats, vandalism' as strike starts second week

By Mike McNamee

MIT officials charged striking employees with "acts of vandalism and threats of violence" yesterday in what appears to be an answer to earlier union charges against the Institute.

The charge, made by Robert J. Davis, director of Personnel Relations, was cited in a special Institute Report distributed by the administration yesterday, as the strike against MIT by Service Employees International Union Local 254 entered its second week.

Davis reportedly "had conveyed to (Federal Mediator Daniel F.) Hurley the Institute's deep concern over the acts of vandalism and threats of violence which have occurred during the strike." Davis' comments, as reported in the Institute Report, were in a reply to a request by Hurley that MIT meet with the strikers at 3:30pm yesterday in the Boston Office of the Federal Mediation and Conciliation service. Davis said that he doubted a "constructive meeting could be held in this atmosphere."

Investigation by *The Tech*, however has uncovered no specific incidents of vandalism that could be attributed to the strikers.

"We have had no reports of anything alarming," Campus Patrol Captain Richard G. Driscoll said yesterday. "There has been nothing to our knowledge that is violent."

Driscoll said that the only specific acts of vandalism that had come to his attention were "incidents of toilet-paper

throwing. We have those every year at one time or another," he said.

The caption pointed out that he might not have been fully informed of any incidents: "If the administration knows something about this, they might be right, but we don't know."

Driscoll added that he did not want to contradict the administration, and said he was "put on the spot."

Edward G. Sullivan, president of SEIU Local 254 and head of the union strike committee, stated that it was "impossible" for union members to vandalize anything except "the streets and sidewalks of Cambridge." "Our members are on the picket lines, and they are being watched by half the Cambridge Police Force and nearly all the MIT Campus Patrol," Sullivan said.

"Wherever there are pickets, there are cops - sometimes more police than pickets," Sullivan continued. "Anyone who can commit vandalism under those circumstances should be in the CIA."

Sullivan said that union members have been threatened by management personnel who "come out to the pickets and say, 'When this is over we'll take care of you.'"

Peggy Murrell, a staff member on the Institute Report, said that the charges made in yesterday's report were based on a number of "unconfirmed bomb threats, punctured tires, and threats to families of MIT employees who have continued to work." Murrell said several cases of tires being slashed have been confirmed, and nails have

been found in driveways on campus.

Murrell mentioned specifically two trucks, one at Lincoln Laboratories and another in the E19 (Ford Building) parking lot, that had tires "slashed." One truck had a window smashed, she said.

The mention of vandalism and threats was "stated strongly" in the Institute Report. (Please turn to page 7)

75 register to vote in Mass elections

By Michael Garry

A record number of MIT students registered to vote in Massachusetts general elections Wednesday at a Undergraduate-Association-sponsored registration session in the Student Center.

75 students were signed up to vote in this year's elections, to be held Nov. 5. According to Cambridge Election Commission officials, this was the highest number of students ever to register at a single session at MIT.

Wednesday's registration session was the first to be held at the Institute under a law, approved by the Massachusetts General Assembly last fall, easing the procedure for students who wish to vote in this state.

As a result, the session was in strong contrast to similar meetings in the last two years, where as many as 50 per cent of the students who wished to register were turned away by Cambridge Election Commissioners on the grounds that they could not

Sloan gives \$500K for cable TV loop

By Mike McNamee

The Center for Advanced Engineering Study has received a \$500,000 grant from the Sloan Foundation for creating an educational cable television network on the MIT campus.

The grant will fund setting up a cable spine with its hub at the CAES headquarters in Building 9, and will also be used to sponsor a number of pilot programs in use of television in MIT classrooms.

The grant will probably be administered by the Center, with about 10 MIT departments, laboratories, and centers expressing interest in developing programs for use of the network.

Outgoing CAES Director Professor Wilbur Davenport told *The Tech* he would discuss the cable project in late October with his successor, Dr. Myron Tribus, who will take over the Center in January. Tribus will probably accept responsibility for the program, Davenport said.

A proposal submitted about a year ago by a group of telecommunications experts at MIT forms the basis of the cable program. Professor of Political Science Ithiel de Sola Pool, one member of the group, explained

that it canvassed the MIT campus during the summer of 1972 to determine what use could be made of a cable on-campus network.

"We received replies from a number of groups who were interested in developing educational 'software' to be used with the network," Pool said. These groups wrote their ideas into proposal form, and submitted them, with the proposal, to the Sloan Foundation.

Pool added that roughly \$125,000 of the grant would be used for the setting up of the cable and other hardware including studios, cameras, monitors, and other equipment. The rest of the money will be distributed to groups who wish to develop programs for the network.

The spine cable will carry three two-way channels originally, Pool said, and will have capacity for developing 16 channels. It will run in a "figure-8" pattern, with the center under the CAES headquarters, which already houses several TV projects.

Pool said that the figure-8 configuration will "add freedom" to the network, by allowing users to plug in anywhere along the cable to send or receive. This, he said, would reduce dependence on studios.

A proposal by the Department of Humanities for a drama course, establishing an extensive Art and Architectural History Library, complete with slides and films, and greater utilization of a collection of videotapes compiled by the News Study Group in the Department of Political Science are among the projects that would benefit from establishing the network, Pool said.

"I'm looking forward to exploring greater use of television in the classroom," said Edwin Diamond, lecturer in Political Science and faculty coordinator of the News Study Group. "We have compiled a very valuable library of audio-visual materials - from the Checkers speech to the Ford inauguration - and this will enable us to expand that work and evaluate its usefulness in the classroom."

Diamond, a member of the telecommunications group that wrote the original proposal also pointed out that student media, such as the student television news operation MITV, would benefit from the network.

Sports fund plans ready

By Mike McNamee

Fund-raising plans for financing a planned \$4.8-million sports complex are being developed, and a full-scale drive is "almost ready to go," administration officials have told *The Tech*.

A Corporation committee headed by Dallas, Tex., businessman Clint W. Murchison '44 met in New York in late June to consider fund-raising strategies to be used in the drive. Plans have grown from that meeting, and the drive will be launched "as soon as possible," according to a Development Office official.

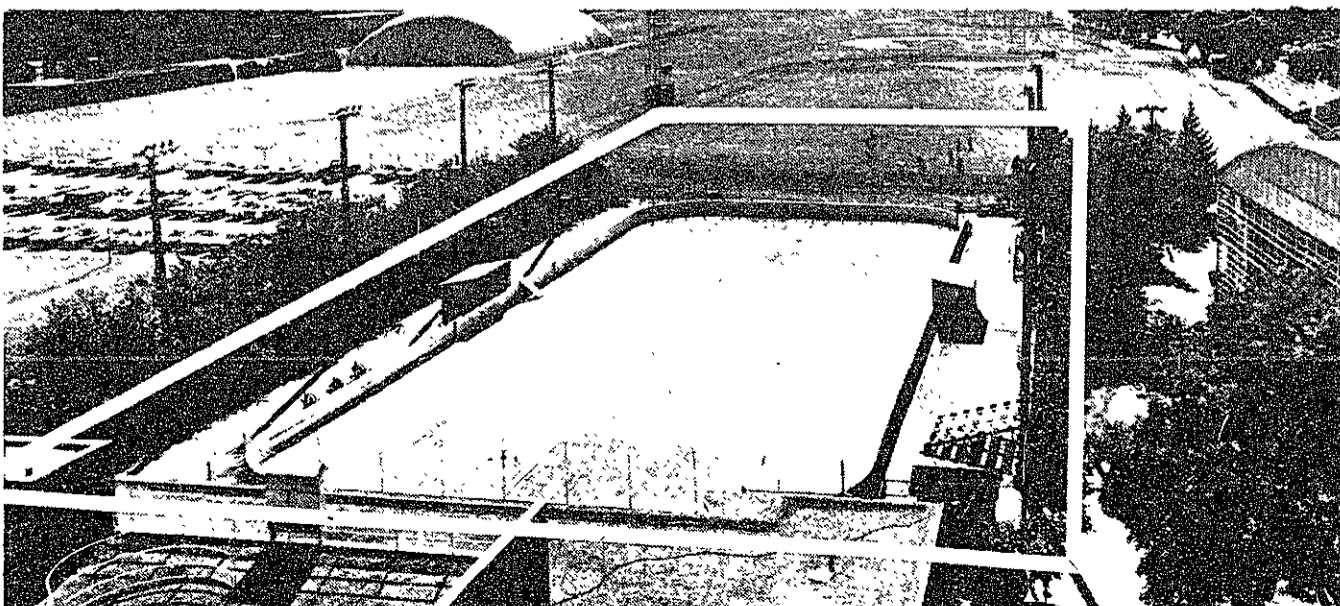
The funds raised will be used for "Phase 1" of a long-term

renovation of MIT athletic facilities. The first phase consists mainly of constructing a new ice hockey rink and indoor sports facility to replace the present rink.

Eventually, the renovation plans call for replacement of Rockwell Cage and substantial improvements in facilities all over campus. Many of the changes planned reflect increasing use of athletic facilities by women students.

"Summer doldrums"

Although the Murchison committee met in June, little actual fund-raising activity has taken (Please turn to page 3)



Approximate location of the planned sports center (box) is in the place of the existing ice rink and outdoor track. The new facility will include an ice rink and a one-eighth mile indoor track. (Photo by Tom Klimowicz)

Inventions displayed at innovation show

By Mitchell Trachtenberg
 Things that buzzed, clicked, whirred, and went bump in the night were on display, along with many other more practical devices, at the MIT Innovation Center's exhibition held last week in the Center for Space Research (Building 37).

The exposition was hosted by the Innovation Center — a year-old program co-sponsored by the School of Engineering and the Sloan School of Management — to introduce the MIT community to the group's activities.

Courses in invention, entrepreneurship, and research and development are offered to "prepare students to be good inventors, and to teach them how to bring their inventions to production and marketing," said the

Center's director, Professor of Aeronautics and Astronautics Y.T. Li.

In a crowded room in the Center for Space Research, the participants were standing by prototypes, pictures, graphs and brochures, explaining the purposes and functioning of their devices to onlookers, who included students, professors, and several industry representatives.

The program has had over one hundred students taking one or another of its classes last year, with another hundred students participating now. Several different aspects of the program were represented by the students taking part in the exposition.

One student, Gary Eadens '75, is market developing a very sensitive tiltmeter, an invention

of Li. Eadens' job is to oversee the development of the tiltmeter until it is actually marketed commercially. The tiltmeter, accurate to 10^{-4} radians or, as Eadens put it, "to within one millimeter in 6000 miles," is likely to find use in an earthquake warning system of the very near future.

Two graduate students, Philip Doucet and John Reese, have developed a computer system that can control the heating, ventilation, and air conditioning of a building in manner that, they hope, will maximize comfort while minimizing fuel use. While they have not actually invented any new technology, they have applied existing technology to a new situation to provide a useful new product.

The system, which they began developing in June, will be installed for testing in a Bose Corporation building near Boston, by the end of the year.

Student inventions include a new electric guitar, by Jacob Moskowitz, that will allow its player to control the sound envelope of each string individually, and a programmable record turntable by Carl Bielenberg '75 that will allow its user to play, automatically, one or two songs from each record in a stack.

Finally, an outside inventor, Floyd Ramsdell, has brought his invention, a 3-dimensional movie

system, to the Center so that student entrepreneurs can explore its "commercialization alternatives." This system's demonstration, consisting of a half hour film including scenes with people walking toward the viewer and throwing things out at the audience, proved to be spectacular.

While these inventions are spectacular, the core of the program is formed by the classes it sponsors. An hour long rap session provided the heads of the program with a chance to explain its value to students and to "plug" its courses.

New info, procedures used in making '74-75 catalogue

By Jules Mollere

The format of MIT's General Catalogue and of the Course and Degree Program Issue for this year has, according to Kathryn Lombardi, Manager of the Campus Information Services, been "changed so that they really reflect what MIT is like."

Lombardi said that the organization of the information in this year's catalogues remained the same but that how that information was presented is different. "We went to a cleaner type and changed to a three column page. It's not only easier to read or to find information this way but also is more contemporary looking... It really reflects MIT's high standards of excellence in design."

Lombardi explained that when a catalogue is normally put out for a new year, a good deal of information and photographs are carried over with only minimal updating. This year, however "the information is up to

date, the photographs are newer and there are a lot more of them," she said.

It was, in Lombardi's opinion, time for a change. "When the design for the old catalogue came out, it was really quite revolutionary. It contained a lot more information about the Institute than any other university had even thought of putting in their catalogues... However, that was seventeen years ago and after that long a time the old design just didn't reflect MIT as we know it now."

Lombardi also mentioned that the delay in the availability of the Course and Degree Program Issue was partially due to this change in design. "We've been working on this thing for a good six months," Lombardi replied, "Designing it, getting it printed, correcting the proofs and we tried to make all the deadlines. We had production problems with the program catalogue, though, and just couldn't

have it ready in time."

The fact that a change in design does require a great deal of effort and time was also advanced by Lombardi as possibly being the reason that it took seventeen years to get around to revising it.

Lombardi commented that they did expect some sort of a cost cut due to the division two years ago of the old catalogue into two parts. "It means that we only have to ship a much smaller issue to those people who are applying. However, some people do write back and say that they want to see the actual description of courses so we then send those people the programs issue."

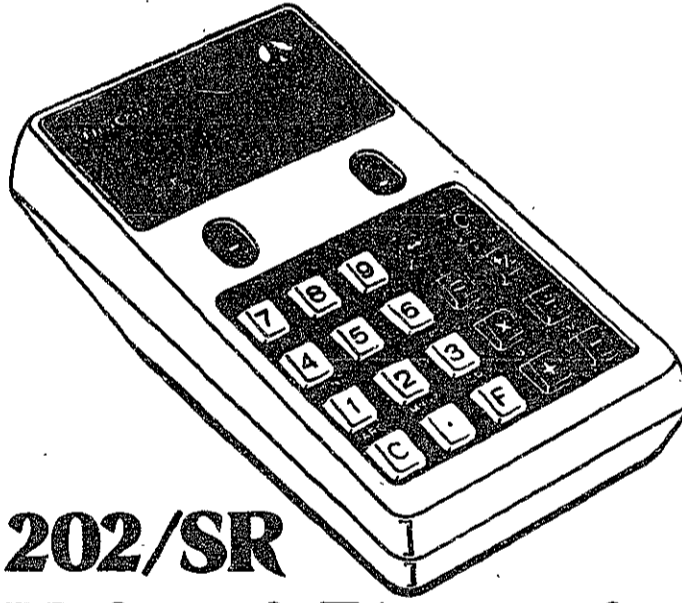
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NOTES

Funding plans ready for center

* The Activities Development Board is presently receiving applications for capital equipment funding for student and community activities until September 25. Applications may be secured from Dean Holden's office in Room 7-101.

* Wellesley College Madrigal Singers will perform Wednesday, in the Lobby of Building 7.

* September 23 at 4pm in West lounge, Student Center. Forum on the Legal Profession - Perspectives on Law Practice: Individual - Law Firm. Sarah Rancy, Esq., private practice of law, Cambridge. Deborah Willard, Esq., Associate, Foley, Hoag and Eliot, Boston.

* Ecology Action revitalization meeting Thursday September 26th, 7:30pm in our office in the basement of Student Center. New projects: campus recycling and national bike-way design collaborative. Elections also. Info: 494-8424 or 547-4859.

* "Jack, or the Submission" by Ionesco, and "Next" by Terrence McNally - Two one-act plays presented by the MIT Dramashop on Friday and Saturday, September 27-28; 8:30pm. MIT's Kresge Little Theatre. Open to the public free of charge.

* Science Contest: Science and Engineering students have an opportunity to be rewarded for creative thinking. The engineering school bulletin board has flyers posted containing details on an energy storage contest. Feasible ideas, rather than completed plans, are eligible for Prizes of \$25.00. For more copies of the contest rules write to: Friedman Energy Contest, 6031 St. Clair Ave., Cleveland, Ohio 44103. State how many copies wanted. Good luck.

* The US-China Peoples' Friendship Association will hold Boston's second annual China Day on Sat, Sept. 28. This observance of the 25th anniversary of the Peoples' Republic of China will be held at Tufts Medical School, 136 Harrison Avenue, Boston, from 10:00am to 5:00pm. The program will feature slideshows and discussions led by people who have recently returned from visiting China, several films, including a full-length animated feature made in China, an exhibit of photographs and contemporary Chinese art. Chinese crafts, food, and literature will be sold. Childcare will be provided. There will be an admission charge of 50 cents. Children will be admitted free.

* Free guided tour from Boston City Hall to the sea. Includes Government Center, Quincy Market restoration, the Central Artery, and the Long Wharf area. Adjourn to the North End afterwards for pizza. Meet at the City Hall Plaza Fountain, Sept. 28, 3pm. Info. 227-5339. Tour sponsored by the Sierra Club.

(Continued from page 1)
place so far, according to Director of Resource Operations Kenneth S. Brock.

"There have been no intensive meetings or hard-core attempts to contact prospective donors during the summer," Brock said. "We've been making arrangements, but there hasn't been any selling yet."

Brock said the main purpose of the June meeting was to "identify possible donors, develop some strategies, and assess some of the responsibilities of the committee."

At that meeting, Brock said, Chairman of the Corporation Howard J. Johnson described the Institute's fund-raising needs to the committee, which is composed mainly of Corporation members. Director of Athletics Ross Smith also described the proposed sports facilities in some detail.

No timetable has been set for completion of the drive, according to Brock. "There were a couple of target dates proposed, but nothing definite was set," he said. The "policy ques-

tion" of when to start construction of the facility - how much money should be in hand before construction actually starts - is also undecided, Brock said.

Inflation will definitely have an effect on the drive and construction plans, Brock said, but a larger effect might come from the current depressed state of the stock market. "Inflation drives your costs up," Brock explained, "but the stock market is what determines how willing people are to donate large sums of money. The market has not been good for fund drives."

Preliminary sketches of the proposed sports center have been given to architects, who are now preparing detailed plans for construction. "When we have those plans in hand, we will be able to tell what the thing will really cost, and what effect inflation has had," Brock said.

Replacing Rockwell

The first part of a three-stage plan, the proposed sports center will be located on the sites of the current skating rink and outdoor track. Construction will in-

volve moving the track during a summer, when use is light. There will be a lag of about 15 months between closing of the old rink and opening of the new one, during which time trade arrangements with other schools will be made for intercollegiate hockey and other skating, according to Smith.

The new hockey rink will double as an indoor events center, taking the place of Rockwell for functions such as Commencement; the Massachusetts State Science Fair, and concerts. With a quick-defrost rink and portable floor sections, Smith predicts that the center could be converted from a hockey rink to an auditorium in four or five hours.

The first phase of improvements also includes "interim plans" to upgrade facilities in Rockwell and duPont Gymnasium. The Cage's cinder floor will be replaced with a composition surface, to reduce maintenance and difficulty of converting the Cage for different athletic events. The gymnasium in duPont will also be renovated, and Smith said that varsity basketball would be moved from the Cage into the gym, with

portable seats added to take care of spectators.

Improving sports facilities at the Institute has been a fund-raising goal for some time, and was listed among six top priorities cited last weekend by Johnson in his address to the Alumni Officers Conference.

Brock said that he felt the sports center drive "would fit right in" with any other fund raising plans the Institute might have, including a large-scale overall drive to raise the endowment which was proposed last spring.

Turner to help minority grads

Responsibility for MIT's growing body of minority graduate students has been delegated to Dr. John B. Turner, it was announced this week.

Turner, a specialist in student personnel administration, was appointed Assistant Dean for minority graduate students by Professor Irwin W. Sizer, Dean of the Graduate School.

Turner replaces Dr. Clarence G. Williams, who has served as Acting Assistant Dean since last January when he was appointed special assistant to the President and chancellor for minority affairs.

About six per cent of MIT's 3,500 graduate students are minority students, according to MIT statistics. That number has "increased rapidly" in recent years.

Turner has been given responsibility for recruitment of minority graduate students, assessment of minority needs at the Institute, placement counseling, and academic advising. Currently an

Assistant Dean of the Freshman Division at Indiana University, Bloomington, Ind., Turner has also served as educational director for the Indianapolis, Ind., Urban League. While at Indianapolis, he administered a summer job-search program for high

school and college minority students.

Turner is a mathematics graduate from Fisk University, Nashville, Tenn., and received his masters and doctorate in student personnel administration and higher education from Indiana.

BULLETIN

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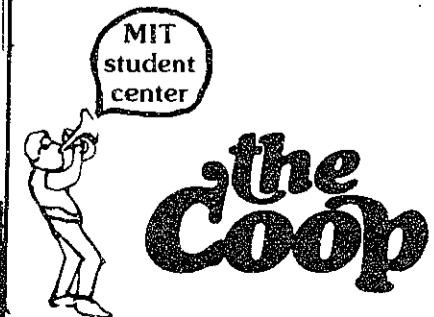
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**In Case of Insomnia —
Read All About It!**

By Storm Kauffman

If you have never wondered how Extras of *The Tech* come into existence, you should start now, because I am going to tell you.

The timing of this expose is chosen, of course, to coincide with the appearance of our Wednesday Extra proclaiming the strike by dining service employees. The reason is primarily to give credit to those who stay up half the night to "bring you the news."

Before we even consider an Extra, we need an "occasion." On this occasion, the occasion was the dining employees' strike (Strike 2?). For a week, rumors had been flying about the campus about the possibility of the dining service employees going out either in sympathy with the SEIU walkout (Strike 1) or because of dissatisfaction with their own contract proposal. If you didn't hear any of these flying rumors, don't worry, most of the hearsay we hear isn't worth listening to.

I knew that the union meeting was to be held at 8pm on Tuesday night and suggested to our News Editor (Mike McNamee) that we should be alert for developments.

We checked on the SNOW number every once in a while, but it was our intrepid Ad Manager (Len Tower) who aroused me from a homework-induced stupor at about 10:30pm. The two of us notified several other senior staff members (defined as those who won't tell you to go to hell when you ask them to work on an Extra), namely the Managing Editor (John J. Hanzel), the aforementioned News Editor, and the Chairperson (Barb Moore, formerly a news editor type).

11:00pm: the staff checks in. Discussion on which MIT officials to wake up. Allocation of these people to McNamee, Moore, and self.

11:02pm: nobody is home. They're all out making preparations for the strike—or imbibing spirits?

11:08pm: success. I make first contact and ask brilliant, probing questions. Minimal information gained, but we know the strike vote now.

11:22pm: Another contact, the data is flowing in.

11:47pm: I make foray around Student Center in search of someone in union; can't find one nor can reach any on phone. It seems that the only people harder to find than MIT officials are union officials.

12:18am: Interviews completed — everyone got home and we were able to grill them on cooks' strike (grill, get it?).

12:19am: McNamee wins (?) and gets to write story. I generate useless list of food sources near campus.

12:28am: Hanzel begins production of paper, typing first two pages written by McNamee. Sometime in past hour, ever-alert-for-a-buck Tower has convinced the SCC to use the back page for an ad. Everyone groans.

1:24am: Paper almost pasted up. We need a graphic so I borrow dining service sign announcing strike.

1:57am: Corrections in place, paper is ready for printer. Special arrangements have been made with the LSC to print our Extras, and sleepless John Sybalsky has drawn tonight's assignment. Exit Sybalsky to print paper.

2:21am: Hanzel, McNamee, and I adjourn to nearby grease pit for hamburgers.

About 3:30am: Time to give up the ghost, turn in, buy the farm.

6:31am: Ironman Hanzel drags himself out to distribute the paper so that you may read it with your morning coffee.

And that's how we bring you the news, whether you want it or not. Good night, David...

Jack Anderson:

Kremlin downplays Ford dispute

Starting with this issue, The Tech will be alternately running a nationally-syndicated college-oriented column by Jack Anderson (Fridays) and a political cartoon by Mike Peters of the Dayton Daily News (Tuesdays). We hope that our readers will enjoy these additions and would like any feedback — pro or con — on the two. — Editor

By Jack Anderson

©by United Features Syndicated

WASHINGTON — Soviet leaders have sent secret signals to President Ford that they are eager to get along with him. They have deliberately downplayed their dispute with him over Soviet bases in the Indian Ocean.

Ford had scarcely moved into the White House before he told a press conference that the Soviet Union was "operating three naval bases in the Indian Ocean." This brought a quick denial from the official Soviet news agency, Tass, which called it a "regrettable inaccuracy."

The President was speaking of UmQasr, an Iraq port at the head of the Persian Gulf; Aden on the South Yemen coast, guarding the entrance to the Red Sea; and Berbera across the Aden Gulf on the African coast of Somalia.

Technically, Ford was wrong, and the Kremlin was right. There are no actual Soviet bases at these three strategic ports. But Soviet war ships have been granted special privileges and priorities at all three ports. The Soviets use the ports, therefore to refit and resupply their naval ships.

The Kremlin leaders have let Ford know, meanwhile, that they don't want this dispute to interfere with the Soviet-American detente. As an added gesture, they have assured Ford that the harassment of Soviet Jews will stop and the 50,000 Soviet Jews will be permitted to emigrate next year.

Nuclear Setbacks

The world's statesmen are losing their struggle to keep nuclear weapons under control and, thereby, to reduce the risks of a nuclear war. Here are the latest grim developments:

President Ford has decided not to send the nuclear test ban treaty, which was negotiated in Moscow last July, to the Senate for ratification. Instead, he will go back to the negotiating table for more talks. Our sources don't expect these to accomplish anything.

The Soviets have admitted setting off fourteen nuclear blasts in the past for peaceful purposes. US intelligence, however, has detected 32 explosions. The Soviets, apparently, are attempting to divert rivers into the barren areas of Siberia.

The Chinese communists have flatly rejected all attempts to gain their cooperation in controlling nuclear weapons.

Contrary to India's assurance that its nuclear test last May was intended strictly for non-military purposes, intelligence reports claim that the nuclear developments began in 1971 as a military project. This has already started a scramble for nuclear weapons by other small powers.

Our sources expect a dozen nations to process nuclear arms by the end of the decade. This will ominously increase the risks that these doomsday weapons may fall into the hands of irresponsible leaders and terrorists.

The Family Home

The single-family home will become a thing of the past — unless something drastic is done to revive the depressed housing industry.

That's the message on President Ford's desk right now. It is contained in a confidential memo from Housing Secretary James Lynn.

The memo warns that few single-family dwellings are now being built. Most of the construction is centered around the booming condominium craze. Tenants all over the nation are being squeezed out as apartment buildings are converted to condominiums.

This has driven up the price of single-family homes. Many houses also require a 25 per cent down payment. With interest rates at eleven per cent, only the rich can now afford to buy their own homes.

Those close to President Ford say he is gravely concerned about these developments. He holds the belief that the single-family home is an important element in the social fabric. Like many sociologists, he thinks that crowded, low-income housing projects strain the basic family unit.

The President, therefore, may pump federal money into the housing industry to save the traditional American single-family home.

Nixon's Pardon

We have been bombarded with questions about the pardoning of ex-President Nixon. We have carefully investigated the story behind the pardoning and have spoken to sources who are in a position to know what happened.

Did Nixon make a deal for a pardon before he brought Ford into the White House? We have found absolutely no evidence of any advance understanding about a pardon. On the contrary, President Ford specifically instructed his representative, Benton Becker, not to promise a pardon during the preliminary discussions at San Clemente.

Why did Ford grant the pardon? He acted strictly out of compassion. He had received reports that Nixon was terribly depressed and despondent, that his nerves were strung like a harp, that he was deteriorating daily. Ford thought the humane thing to do was to pardon his predecessor.

Why didn't the President wait until the courts had determined Nixon's guilt? Ford was told that a Nixon indictment was imminent. He felt the indictment might crack Nixon's emotional stability. Since Ford had already decided upon mercy, he thought it would be more compassionate to act immediately.

Didn't Ford realize that a Nixon pardon would be unequal justice and might upset the whole Watergate prosecution? His lawyers told him that the power to pardon had been used in the past as the President's personal prerogative, without regard for equal justice. But the whole truth is that Ford simply didn't consider all the implications.

Washington Whirl

By pardoning Richard Nixon, the President has revived the Watergate controversy after almost putting it to rest. This will increase the risks that the GOP will become identified in the public mind as the Watergate party. The voters won't be able to vote against either Nixon or Ford on November 5th. Therefore, many voters will register their protests by voting against the Nixon-Ford party. Except in the South, Republican candidates will be hurt by Ford's action. . . . At the end of the Arab oil embargo, all companies rushed to replenish their stock. This has now resulted in a surplus of gasoline which will force gas stations to lower their prices — slightly. In a few cities, gas wars will probably result as the stations compete to get rid of their surplus gas. But the oil producers will hold back production in order to keep prices high in the future. . . . President Ford is convinced that Watergate was caused by a campaign committee that was permitted to run wild. Therefore, he will keep a

tight rein on the Republican National Committee. He will ask White House aide, Dean Burch, to keep a sharp eye on the committee and to report back to him the slightest excess.



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The Tech
Since 1881

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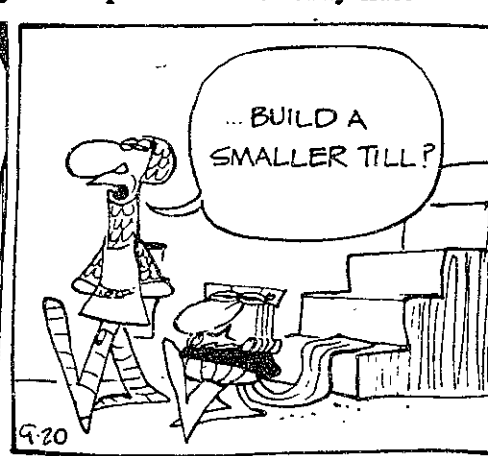
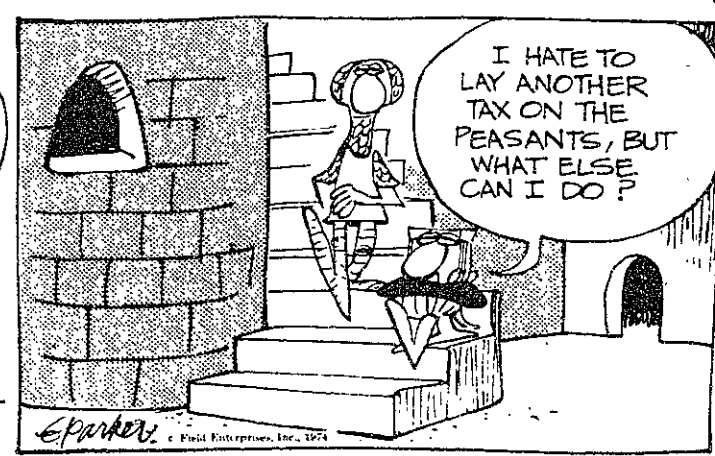
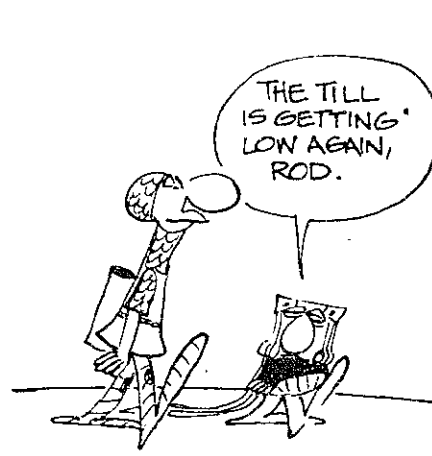
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THE WIZARD OF ID

by Braut parker and Johnny hart



The Wizard of Id appears daily and Sunday in *The Boston Globe*

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.

9-12-74

Report received of larceny of a wallet from a locker at duPont Gym. The wallet contained \$30 in cash and personal papers.

9-13-74

A complaint was received from Building 6 of the larceny of 15 pounds of mercury. The mercury was taken from the lab in two separate thefts. Investigation indicated no forced entry to the lab and no exact period of time of the theft could be determined.

9-13-74

Report of an alarm of fire from Bexley Hall. The Campus Patrolman reported this was a false alarm of fire and was caused by using the fire alarm box as aid in climbing to the roof. The location of the box will be moved.

9-14-74

An occupant of Senior House reported that his room had been broken and entered while left unattended. Entrance was gained by removing a screen. No report of any larceny from this room. Investigation uncovered a second larceny in the immediate area and the larceny of a watch from the second breaking and entering.

9-14-74

Report of malicious destruction of property in Building 37. The patrolman reported that receptacles were ripped off the wall sometime during the night.

9-14-74

The Campus Patrolmen investigating smoke coming from the direction of Albany St. reported a North American Van on fire and reported a loss of \$34,000. The cause of this fire is being investigated further by the Cambridge Police Department.

9-14-74

Report of larceny from a locker at duPont Gym. The locker was entered by removing the original lock and replacing with a second lock. \$14 in cash and a wrist watch was taken in this larceny.

9-15-74

Report received of the larceny of a Raleigh girl's 3 speed bicycle from the Westgate Low Rise Apts. The value of the bicycle was given as \$65.00.

9-15-74

The Campus Patrol received a report of unauthorized persons in the Alumni Pool at 2:30am. Three students involved in a nocturnal swimming party were dispatched to their rooms to continue their technological studies. Entrance was gained to the pool via open window which was promptly secured by the patrolmen.

Mazlich to head humanities

By Pat Foley

Reorganization problems stemming from the change in the MIT humanities requirement will be one of the first items taken up by the new Acting Head of the Department of Humanities, Professor of History Bruce Mazlish.

"My goal is to see humanities play the important role that I feel they should for each MIT student," Mazlish told *The Tech* shortly after his appointment to head the department was announced last week.

Mazlish was appointed by Dean of the School of Humanities Harold J. Hanham to fill the post for the 1974-75 academic year. Hanham has served as acting head since he came to MIT during the summer of 1973, replacing Professor of History

Richard M. Douglas in the Humanities post.

The new humanities requirement, approved last spring by the faculty, "should be beneficial for students," Mazlish said. "I hope to see humanities getting the attention in practice that, in theory, they are supposed to get," he added.

Mazlish said that he was considering setting up an inter-departmental committee to ad-

minister and guide the humanities program. He said that "Departmental offerings should be strengthened, not weakened, by the new humanities requirement," the professor said.

Mazlish, who received a PhD in history from Columbia University, came to MIT in 1950. He is author of several books, including *In Search of Nixon: A Psychohistorical Inquiry*, published in 1972.

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Technical Notes

By Storm Kauffman

* RCA has produced for the Army an automatic test system which virtually eliminates the need for conventional production line test devices. EQUATE (Electronic Quality Assurance Test Equipment) can be applied to all types of military electronics, including communications, radar, and avionics. The system substitutes computer software for the usual test devices such as waveform generators, digital voltmeters, spectrum analyzers, and distortion meters. EQUATE compiles test programs, generates test stimuli, and analyzes all results. Automatic control drivers and optical meter readers will replace repetitive manual operations, thus reducing human error.

* RCA Chairman Robert Sarnoff believes the \$1.8 billion Federal budget for energy research has been "committed to a program lacking in central leadership and clear design." Calling for a unified national policy for energy development and use, he deplored the distribution of monies among different and sometimes competing agencies (the AEC, Interior Department, NSF, and EPA) as incurring extra costs due to overlapping projects, duplication of previous results, premature application of untested results, and jurisdictional disputes. Sarnoff urged the creation of a strong independent Federal agency to bring "diverse government pro-

grams in all areas of science and technology — including energy — into a unified policy framework based on long-term national needs." This proposed Science and Technology Board would be "a focal point for planning and coordinating all government-supported research, development, and technical education. It would set national priorities in science and technology, and shape our programs accordingly." The Board would maintain close ties with industry and university scientific and engineering communities, and seek their cooperation in developing policy and programs.

Sarnoff has also urged greater sharing of satellites to avoid duplication of effort in space. New technology will permit the development of multipurpose spacecraft which would save the effort and cost of launching many different craft. Sarnoff pointed out that desirable locations are not unlimited: geostationary satellites must be spaced about 100 miles apart to avoid collisions; and communications satellites operating in the same frequency range (as they do now) must be kept from 1200 to 2000 miles apart to prevent mutual interference. This provides room for only eight to 13 in the orbital segment over North America and Hawaii. The use of higher frequencies could permit reduction of the spacing distances by as much as half but there is no guarantee that 20 or so satellites will be sufficient for our future

needs. Multifunction craft will reduce some of the clutter in orbit and maximize use of the best locations.

* RAYTHEON has built an experimental cooking device to permit study of combinations of cooking methods that would optimize preparation of foods at government installations. Microwave energy at two frequencies is fed into an oven chamber designed for steam injection and equipped with an array of infrared heating elements. The three cooking methods produce different effects: microwaves penetrate throughout the food and cook rapidly; infrared provides a point source of heat for browning; pressurized steam provides the conventional hot-environment for cooking. Punched cards will be inserted into a card reader that has a logic system which will follow preprogrammed cooking sequences. A principal objective is to optimize the cooking of roasts — beef is one of the meats being studied and it represents the government's largest commissary item in price and quantity. Usually, every 100 pounds of beef yields only 60 pounds of cooked meat, but the yield may be increased to 80 pounds with improved methods.

* RCA has proposed an electronic license plate system to improve

highway safety and automate traffic services. Costing only a few dollars each in quantity, the plates would respond with a vehicle's identifying code number when electronically interrogated, receive and transmit radio messages to and from a vehicle, and serve as a transponder for a cooperative collision avoidance radar. An antenna receives radio signals at one frequency and re-broadcasts them at double that frequency and an integrated circuit coder transmits an identifying electronic signal. Interrogators (microwave transmitter/receivers) could provide automatic vehicle monitoring of buses, police cars, ambulances, trucks, and cabs to provide improved scheduling and dispatching. The system can be used by the police to locate stolen cars or vehicles whose owners are scofflaws. Interrogators equipped with doppler radar sensors could identify speeding vehicles and transmit a warning to the drivers. About 12"x6"x1/2", the plate can serve as the second harmonic reflector in a collision avoidance system which is sensitive to only reflector equipped obstacles such as other cars and highway abutments.

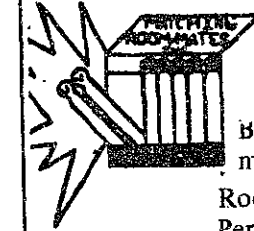
* HEWLETT-PACKARD has marketed its fifth model in its pocket calculator series. The HP-70 is a reduced function version of its HP-80 business calculator.

* CASIO is producing a \$100 calculator, the fx-10, with square root, logarithms, trig functions, reciprocals, e to a power, and a number to a power. It has an eight-digit display and operates on either AC or batteries.

* RAYTHEON uses about four carats of diamonds in each of its traveling-wave electron tubes. They separate the helix rings from the outer shell and are chosen because of their excellent heat-conducting and electrical-insulating properties.

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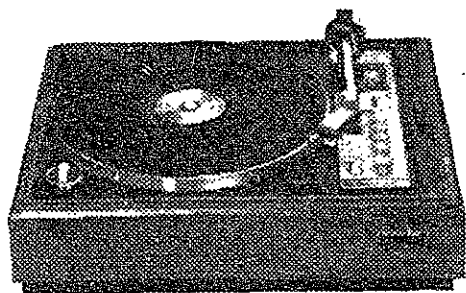
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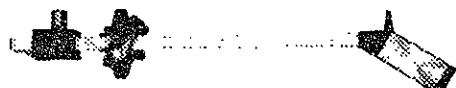


How the 810 QX reproduces recorded music accurately.

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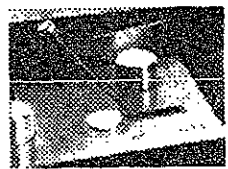


may be adjusted for optimum pressure with either conical or elliptical styli, so stylus sits perfectly centered in groove for precise stereo separation without audible distortion or uneven groove wear. A strobe disc is integrated into the platter design and a variable speed control is

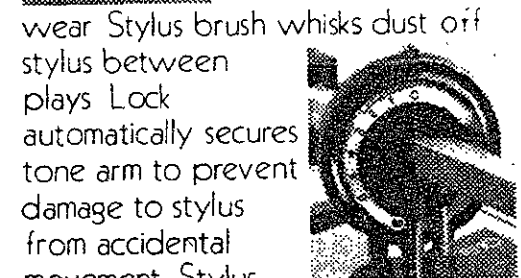
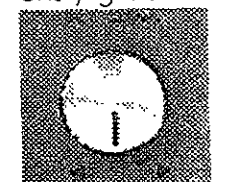


provided should you want to vary from, and later return to, the normal speeds. The tone arm will track as low as 0.25 grams to make use of finest light-weight, high-compliance cartridges for maximum fidelity and dynamic range.

How the 810 QX protects records and cartridge stylus assembly.



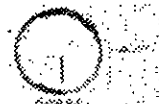
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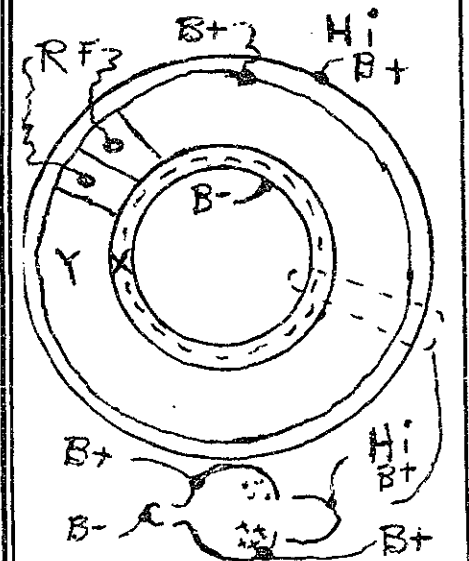
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Charges tighten relations between strikers, officials

(Continued from page 1)

port, Murrell said, "because it is in direct violation of the unfair practices act."

The federal mediator, Hurley, told *The Tech* yesterday morning that he shared MIT's pessimism about the usefulness of the meeting scheduled for yesterday afternoon. Hurley said that he felt little could be accomplished: "As far as that question goes, that analysis has not changed."

Davis' charges of violence by strikers seemed to be in reply to charges made earlier this week by Sullivan, who had told *The Tech* that MIT was refusing to deal directly with the SEIU.

In a page one article in Wednesday's issue of *Tech Talk*, Davis stated that these charges "completely without foundation." The personnel director was quoted as saying that MIT officials have been meeting since May with the union, and as saying that MIT's bargaining posture was flexible

throughout the negotiations.

Davis also charged that procedures used by the union in deciding to strike inevitably led to a vote in favor of striking. He said that the announcement of the meeting was vague, and that the meeting was scheduled for an hour which was "inconvenient" for union members.

A later strike vote by union workers at the Lincoln Laboratories was a "foregone conclusion," Davis said. He said that pressure had been applied to the Lincoln Lab workers by union officials and MIT members.

Sullivan told *The Tech* that the voting procedures used by the union this year are "almost identical" to those followed two years ago, when the union ratified the contract with MIT.

"What Davis calls 'pressure from union officials' is what the union calls 'solidarity,'" Sullivan said. "There were no members of the Cambridge group present when the Lincoln employees voted to strike."

Several members of the MIT faculty are circulating a petition in support of the strike. The petition urges staff and faculty members not to "scab" by de-

livering mail, doing custodial work, or taking care of other duties usually done by the striking workers.

About 75 signatures had been collected yesterday afternoon, with the sponsors predicting that most of the faculty would support their move.

Meanwhile, the strike by Cooks and Pastry Cooks Association Local 186 against the Institute, called Tuesday night, was inconveniencing members of the MIT community who suddenly found themselves without a place to eat.

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The Nominations Committee of the U.A. will interview students interested in serving on the Corporation Joint Advisory Committee on Institute-Wide Affairs Thursday, Sept. 26 at 7:00pm in Room W20-400 of the Student Center. For more information, call Ext. 3-2696 or talk to the U.A. secretary in Room W20-401 of the Student Center.

In the future, NomCom will be selecting student body members to represent student concerns for more than 32 student-faculty committees. Watch for notices like this one, as well as articles in the U.A. section of each Tuesday's issue of *The Tech*.

Sports

Sports era ends with Ben Martin retirement

By Nakir Minazian

After 29 years as the MIT ice hockey and lacrosse coach, Benjamin R. Martin, Assistant Professor of Physical Education, retired this summer. Recognized as the most respected of New England lacrosse coaches and one of the pioneers of intercollegiate ice hockey, "Ben" coached from the formative, right through the current thriving years of both sports.

Ben was legendary first as an All-American lacrosse player for Syracuse University and then as one of the finest coaches in the pioneer years of the intercollegiate game.

In 1958 and in 1959, his teams at MIT won the Roy Taylor Trophy, the forerunner of the NCAA College Division Championship. In 1959, Martin was the coach of the North squad for the Johns Hopkins North-South All-Star Lacrosse Championship.

His MIT squad barely missed winning the New England Championship in 1969, losing an overtime contest to the University of Massachusetts. Ben has turned out seven All-American lacrosse players in his tenure at MIT, including Marinos Gerakaris '56, Charles Fitzgerald '59, Joe Skendarian '61, Steve Reimers '69, Jack Anderson '69, Walt Maling '69, and Steve Cochi '73.

As hockey coach, Martin originated the MIT Hockey Tournament the forerunner of the ECAC Division II Championship which was held every January during term recess.

Though starting in 1947 with a modest schedule including Boston College, Boston University, and Harvard, the schedule changed to include teams that were less competitive in their recruiting practices. Beginning

with teams which did not have varsity status, like UMass, Merrimack, Connecticut, and Wesleyan, MIT developed its own schedule and New England hockey along with it.

In 1973, Coach Martin received the Schaeffer Pen Award for his outstanding contributions to hockey, presented by the New England Hockey Writers Association.

Although always known as a "tough" coach, Martin commanded a rigor, discipline, and respect from his players that endured. Many an ex-athlete, returning to MIT looked up Ben first for a visit. No doubt his presence and character will be missed as a unique and irreplaceable figure in the MIT Athletic Department.



Former coach Ben Martin (right) is shown accepting the Schaeffer Pen Award for his long history of contributions to hockey.
Photo by Fred Hutchison

Men sailors qualify

By Lila Kobylak

The MIT men's varsity sailing team opened its fall season last Saturday by winning the eliminations for the New England Intercollegiate Sailing Association (NEISA) Sloop Championship at the Coast Guard Academy.

Sloops are a twin-sailed class of boats, which are larger than the dinghies sailed on the Charles and are manned by a team of four. They require both coordination of effort and good seamanship on the part of all members of a team to sail well.

The MIT team of Chuck Tucker '75 (skipper), Paul Erb '76, George Todd '76, and Larry Dubois '76 demonstrated precisely these abilities by its first place finish in the eliminations, placing first in four out of six trials.

The final scores for the eliminations were: MIT 11, Coast Guard 13, Brown 18, Stonehill 24, Bowdoin 28, and Trinity 33. This fine per-

formance enables MIT to sail in the finals of the NEISA Sloop Championship.

The following day, the men sailed in the Yale Dinghy Invitational, placing fourth behind Yale, Tufts, and URI, who placed first, second, and third, respectively.

MIT's A-division was skippered by Erb, with crew Steve Gourley '77, while the B-division skipper was Bill Critch '77 with crew Bill Rizzi '76. Although MIT's sailors showed occasional flashes of brilliance, their lack of consistency cost them a better finish.

The MIT freshman sailing team began its season Sunday, sailing in the Charles River Basin, where MIT entered two teams. The MIT-A and MIT-B teams finished third and fifth respectively in a fleet of seven teams. Gary Smith was the outstanding MIT sailor in this regatta.

Howl Shots

By Dan Gantt

Had the lowly New England Patriots not beaten the mighty Miami Dolphins on Sunday, the opening of the National Football League season last weekend might well have passed me by.

For you see, of late I've found it very difficult to take professional football seriously. The season now runs from July to January, with the two overlapping schedules of the two leagues adding to the thorough confusion. Each league has a different set of rules, neither of which bears great resemblance to that to which I am accustomed. Players are being bounced around like ping pong balls; the Lord only knows who plays for whom... and I have great doubts that He cares.

Just to show the complete ridiculousness of the situation, try, if you can, to name one player from the Portland Storm, the San Diego Chargers, the Detroit Wheels, or the Chicago Bears. I don't think I can. Can you name a World Football League coach? For that matter, can you name all of the WFL teams, including nicknames? Even all of the NFL teams may not be known by any but the most interested of fans.

And the rules! What happens when a game is tied at the end of regulation time? Is it still legal to signal for a fair catch on a punt? Right now it's even difficult to remember how many points a touchdown is worth. It all depends on what day of the week you happen to be watching the game and also on the color of the football being used.

Following football is just so frustrating! As far as I'm concerned, there's no way you can beat a good pennant race in late September.

sporting

notices

The varsity wrestling team will hold its organizational meeting next Monday, September 23 in Room 37-252 at 5:00pm. All those interested in intercollegiate wrestling are invited to attend.

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EXTRA

The Tech

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MIT, CAMBRIDGE, MASSACHUSETTS

WEDNESDAY, SEPTEMBER 18, 1974

FREE

Second strike in week

Cooks' union votes to strike MIT

Walker only hall open; Commons gets priority

By Storm Kauffman,
Mike McNamee,
and Barb Moore

Members of Cooks and Pastry Cooks Association Local 186, AFL-CIO, voted to strike MIT last night over a contract dispute dating back to June 30.

The strike closed all Institute dining facilities except Walker Memorial, which will be used to feed students who are enrolled on Commons meals plans.

This is the second strike to hit the Institute in less than a week. Members of Service Employees International Union Local 254, AFL, struck last Thursday over a similar contract dispute.

The vote by the cooks, taken at about 9:30pm, was 26 against the contract offered by MIT, and 14 for. The union has about 85 members.

Affected by the move to close the dining halls are several hundred faculty, staff, students, and employees who eat in the Lobdell Dining Hall in the Student Center, Walker Memorial Dining Hall, and halls in Baker and McGregor Houses. The two dormitory halls usually serve students on Commons three meals a

day, while Lobdell and Walker get most of their business during the noon lunch period.

The approximately 1000 students on Commons will be given first priority in Walker under the plan devised for the strike. Other students will be served if the capacity of Walker allows.

The MIT Faculty Club, located on the sixth floor of the Sloan Building, E53, will also remain open. The club usually serves faculty and staff who hold membership cards.

MIT officials appeared to have anticipated the strike vote, as implementation of the contingency plans began immediately. A letter prepared in advance by Director of Housing and Food Services Harmon E. Brammer was distributed to students in the dormitories and posted throughout the Institute shortly after the vote was announced, explaining the plan to use Walker.

MIT officials told *The Tech* that contingency planning for the possible strike has existed since the SEIU voted to refuse an MIT offer last Thursday. They did not say, however, that the Walker plan was the original plan formulated.

No special plans have been made to aid employees and staff who usually lunch in the MIT dining halls, according to MIT News Director Robert Byers. Plans to provide extra catering or service through food-vending machines were "discussed but rejected as impossible," Byers said.

Brammer's letter to food service customers suggested that customers bring lunches from home or plan to eat off campus (a list of nearby restaurants is provided on this page).

The contracts of the two unions both expired at the same time, June 30. Members have been working under the old agreements while negotiations were being held since that time.

MIT offered both unions "essentially the same agreement," according to Byers. That agreement included a 7½ per cent wage increase, a move for MIT to finance the workers' pension plan, and several changes in employee benefits and working conditions.

A third MIT union, the Research, Development and Technical Employees Union, has already signed its biennial contract with the Institute.

MIT officials told *The Tech* that there had been "no study" of how long the two strikes might last, or what effects they would have on the Institute. "Every situation is different," said Philip Stoddard, Vice President for Operations. "We could go for a short time with a strike, or we could go on forever."

An SEIU official predicted earlier this week that the union's strike would last "at least a month."

Stoddard said that the strike vote had been expected: "They were under all kinds of pressure

— they had 600 people looking down their throats (the 600 striking members of SEIU)." Stoddard would not elaborate on what kind of "pressure" had been applied; "I used the word in a general sense," he said.

Stoddard said that the first concern of the administration had been the welfare of MIT students living on campus. "Those kids live here, and we have to take care of them first," he said.

Most student employees in the Dining Service will be laid off for the duration of the strike, with only enough employees retained to staff Walker Dining Hall. No plans have been made on whether those positions will go to a fixed group of students or rotated among all Dining Service employees.

No special preparations for the change in service at Walker were being made at press time, according to student employees there. "All we're doing is stocking up on ulcer and headache medicine," one said.

Sources of Food near MIT (Partial list)

On-campus:

Coop Lobby Shop — supplies limited due to delivery difficulties
24-Hr Coffeeshop — supplies increased

Delivery to campus:

Gershman's Pizza (876-2882)
Dino's Pizza (266-6381)
Domino's Pizza (354-5750)

Cambridge restaurants and sub shops:

Boston Sandwich (Mass Ave & Vassar)
Campus House of Pizza (Mass Ave & Albany)
F&T Restaurant (Main & Carleton, near T)
Joyce Chen's Small Eating Place (Mass Ave)
Simeones (Brookline, near Central Sq)
Zorba's (Mass Ave, near Central Sq)
New Town Variety (Windsor near Main)
George & Nick's Steak House (Mass Ave, Central Sq)
Jack in the Box (Mass Ave, near Central Sq)
Brigham's (Mass Ave, near Central Sq)
Ken's Pub (Central Square)

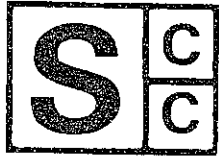
Supermarkets:

Purity Supreme (Central Sq)
Stop & Shop (Mem Drive & River St Bridge)
Mahlowitz Market (Main & Windsor)
For other places to find sustenance, try the list of restaurants and supermarkets in *HoToGAMIT*.

**FOOD SERVICE
CLOSED
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Only Commons
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further notice**

The above sign was posted at all dining facilities soon after the Local 186 called its strike.

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9:30 pm — Mezz. Lounge

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