

## Commission costs top 200K

By Lee Giguere

Expenses for the MIT Commission currently total \$223,000, much more than any previous such study group set up at MIT.

The \$200,000 figure, compiled by Joel Orlen, Commission Staff Director, included actual expenses from October '69 to August '70 and was estimated by him to be 95% complete. It does not include, however, the cost of printing and mailing 15,000 copies of the Commission's report, which took place after August.

According to Stuart Cowen, Comptroller, the old Lewis Commission was largely voluntary and cost the Institute only about \$3000 in direct out-of-pocket costs. (This was primarily for printing their report). The Pounds Panel on Special Laboratories accumulated \$70,000 in direct costs, including printing costs for their report, while the Committee on Curriculum Content and Planning was budgeted for about \$100,000 in 1963 and 1964, under the item "Academic Study Committees."

Cowen pointed out that except for the Commission figures these do not include charges for the time spent by faculty members on the committees.

### Budget breakdown

Along with the cumulative expenses of the Commission, Orlen was able to provide a breakdown, of the budget. \$163,000 was spent on salaries and wages for the Commission and task force members, staff consultants, temporary help and student help. Operating expenses, including meeting costs, graphic arts services, office supplies and equipment, physical plant overhead, audio visual presentations, computer time and telephone

bills, came to \$29,800.

The cost of publishing transcripts and reports for distribution to the Institute community was \$6,200; as already noted, this figure does not include the cost of the Commission's preliminary report released last month. Seminars and experimental subjects were budgeted for \$5000. These involved a seminar conducted by Harvey Sapolsky,

and support of a group planning a study program for the first two years. Conferences and special events totaled \$4000. In particular, this refers to a conference of high school administrators held to discuss what the next wave of college students would be like. Finally, the Commission spent \$15,000 renovating the sixth floor of building 39 for its offices.

## Deja Vu wins UMOC title

Two years ago MIT was astonished when a coed was elected the Ugliest Man on Campus. This year's winner is even more astonishing — the ugliest man found on the MIT campus has turned out to be an alligator, and what's more, it's a female alligator.

Deja Vu, the pet of Don Garvett '73 of MacGregor House, proved in a very tight race that she was, in the end, uglier than anyone on campus.

The final tabulation of votes was:

1. Deja Vu — 74,940
2. The Beast — 67,638
3. Dave Faktor — 13,892
4. Dave Gromala — 11,156
5. Hermann Q. Witherspoon — 10,279
6. Ken "Grin" Skier — 6,504
7. Matt Lief — 4,944
8. Ralph Knopf — 3,718

Besides producing the first non-human UMOC, this year's contest set records in terms of money collected for charity in MIT's UMOC contests. Matt "The Beast" Beasley, who on the final day collected \$450.29, set a new record for the highest total collected in one day by a

(Please turn to page 3)



## Gray selected to head School of Engineering

Associate provost Paul Gray has been appointed the new dean for the MIT School of Engineering.

Professor Gray succeeds Professor Raymond Bisplinghoff who resigned as dean last month to serve as associate director of

## Blacks named to hear BSU discipline cases

The Nominations Committee of the General Assembly voted Thursday night to submit the names of Anthony Lassiter '73 and Greg Chisolm '73 to the GA for approval as temporary members of the Discipline Committee while the cases of the 28 black students charged in the Faculty Club incident are being heard.

The students will sit on the Committee only if formal hearings are held; if the problem can be worked out informally, there will be no trial.

Lassiter and Chisolm are replacing Andy Mermell '72 and Paul Greenlee '72, who, in accord with the GA resolution of last week, asked for and were granted leaves of absence. The other undergraduate member of the Discipline Committee, Tracy McLellan '71 has indicated her intention to stay on the Committee, even if the case of the 28 blacks comes to a formal trial.

The 28 are charged with disrupting a party at the Faculty Club several weeks ago.

Upon learning of the intent of the Administration to charge the students, UAP Wells Eddleman and Andy Mermell drafted a motion which the GA approved last week, specifying that in the event of formal hearings, the white students on the Discipline Committee would be granted leaves of absence, the Black Students Union and the GA Nominations Committee would jointly discuss their successors, and the Nominations Committee would vote on the replacements.

The reason for this, according to the motion, was that "disciplining Black students in cases stemming from action against racism, before an all-white discipline committee, would be a gross injustice and a violation of the right to trial by a jury of one's peers..."

The BSU submitted a list of twelve black students interested in sitting on the Discipline Committee prior to that committee's meeting. Six of the twelve showed up to be interviewed.

## DISEASE FORCES TREE REMOVAL ON MASS. AVE.

Planting of 38 new trees along Institute property adjoining Massachusetts Avenue, underway for a week, will be completed before the end of the year. The trees, bought to replace approximately half that number of elms which succumbed to Dutch elm disease, are known as zelkovas. According to Larry Pickard, Superintendent of Grounds for Physical Plant department, they are a relatively new tree comparable to elms in most ways except that they are not susceptible to the elm blight.

The trees were purchased using money from the Mass. Ave. beautification fund, donated by an alumnus about five years ago. The new bus shelters, to be installed this winter, were also bought by this fund.

Another phase of the beautification project, to be executed this spring, is the construction of a grass median strip between the sidewalk and curb on both sides of Mass. Ave. This is all that remains of an ambitious plan to remodel the street between Memorial Drive and Vassar Street. This project was shelved when an experiment last year indicated that the majority of MIT students felt that Mass. Ave. parking was far more desirable than Mass. Ave. esthetics.

## Tech aims for nursery set

By Dave Searls

Professor Seymour Papert of the Mathematics Department lectured on computers Sunday afternoon to an appreciative audience which overflowed 10-250. Beginning with a short juggling act, Papert went on to cover topics of computer applications to contortionist exercises and an algorithm for riding a "bongo board."

These unorthodox subjects were necessary to hold the attention of his audience, more than half of which was children between the ages of six and fourteen. The lecture was entitled "Computers and Kids and other things..." and was the third in an annual series of similar lectures for children and their parents, benefiting (admission was \$1) the Technology Nursery School.

### Turtle flops

The atmosphere was predictably frantic. Papert aentered atired in a black sleeveless suit and a garish orange-and-black-striped shirt — in the words of one observer, he looked like a clown. He immediately captured the fancy of his audience with a manner reminiscent of Soupy Sales, but made contemporary with a touch of Sesame Street

sophistication. With adroit staging of various visual aids, demonstrations, audience participatio, and other theatrics, Papert managed to stay within the bounds of most attention spans, despite gross inconsistencies in the presentation of visual materials. (This was understandable, as the unfortunate projectionist was harried by a plethora of film clips, mixed slides, as well as faulty equipment, causing him once to reveal his irritation, to the delight of those assembled.) Unfortunately, a planned demonstration of a robot turtle also failed — until after the lecture, when an inquisitive child was found running it.

### Kalidoscopes and milk drops

Despite these setbacks, Papert was able to convey to a good portion of those present the concept of a procedure — the fact that writing a program is finding ways to describe things better. Displaying computer-generated kalidoscopes and Harold Edgerton's famous milk drop movies (Professor Edgerton, as well as Marvin Minsky, later proved to be present), he even touched on the concept of subprograms. While the presentation lacked the subtleties and insights of a 6.251 lecture Papert

did manage to get across a few fundamental truths — for instance, when the turtle demonstration failed, he pointed out that "the main thing you should learn about computers is that most of the time they don't work."

After the lecture, some of the children addressed Papert on a first-name basis. In fact, they were part of a class from Lexington that he teaches personally. The program is part of their normal curriculum, and is offered only to "average" students, and not to those with superior abilities.

### Problem solving

"The emphasis," Papert said later, "is not so much on programming as on pointing out to them the methods and resources for problem-solving. For instance, we have them write their own programs for the turtle to do various things. We find that children who had had no interest in problem solving have really responded to our approach."

They must be doing something right. Papert ended his presentation with an analogy between programming computers and education, asking, "What's the most important thing to teach children?"

The immediate reply, from one youngster: "How to learn."



Prof. Paul E. Gray

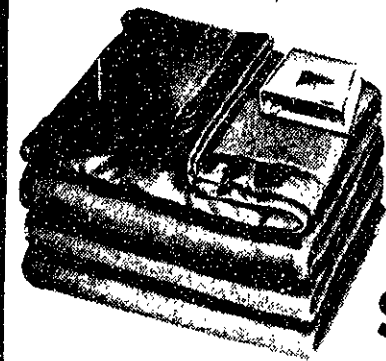
From his freshman year in 1950, Gray's academic career has been spent solely at MIT. In 1954 he received a Bachelor of Science degree, in 1955 a Masters, then, after two years in the army, he received his doctorate in 1960. That year he was made an assistant professor; in 1967 the Electrical Engineering department granted him tenure.

Gray moved into the administration first as Associate Dean of Student Affairs in 1965.

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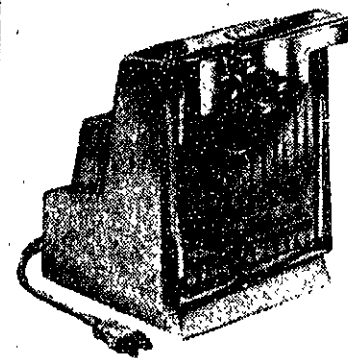
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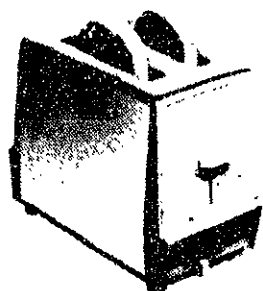
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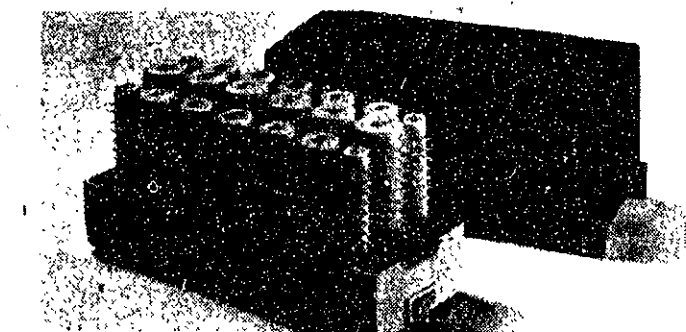
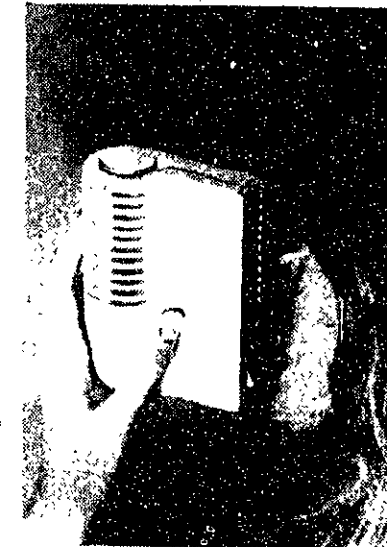


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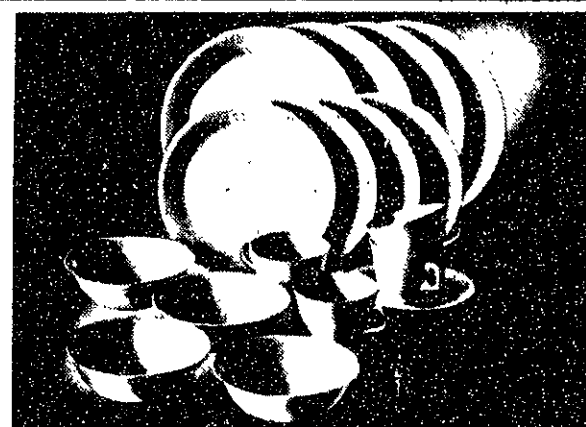
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# Sullivan unveils plans to fight unemployment

By Bruce Peetz

James L. Sullivan, former City Manager of Cambridge, discussed the problem of unemployment in his "Crisis in the Cities" seminar held last Thursday night.

Focusing on the problems of Lowell, Mass., where he is presently City Manager, Sullivan reported that Lowell has recently fallen into the Department of Labor's "Class E," which denotes nine to twelve per cent unemployment. Although an additional amount of money is allocated for such a city in training programs, such as Manpower, these programs cannot work in the Lowell area as most of the unemployed are scientists and engineers from the Route 128 layoffs.

Sullivan noted that 20% of the scientists and engineers in the Commonwealth are currently unemployed.

From research in Boston and Washington, Sullivan formulated a plan of employment and conversion of the Lowell area. Citing government statistics, he claimed that in the five years ending 1967, the federal government spent a total of \$52 billion on defense, \$33 billion on farm subsidies, and \$24 billion on space research, while only spending \$22 billion on highways and \$8.1 billion on urban renewal. The City Manager feels that the finances cut back from defense and space could be directed to urban renewal. The added money could then be used to

employ scientists and engineers layed off from defense jobs to solve technical problems in cities.

A plan of this nature is being devised for Lowell, involving, as a pilot, a team of six or seven scientists and engineers who will study traffic patterns and devise improved signal and street systems. Further programs would involve snow removal, rubbish collection, crime prevention, and city supplies acquisition. It is anticipated that the initial program will cost \$100,000.

Original attempts at obtaining funds from the Economic Development Authority, under whose jurisdiction urban renewal falls, were frustrated by an assistant secretary. After Sullivan presented his program, the official showed him a feasibility study done in Fresno, California, that cost \$800 thousand. The secretary claimed, however, that the EDA could do nothing concrete about providing jobs, even at one-eighth the price of a "study". When asked in the seminar what the EDA does, Sullivan quipped, "They make the paper industry a very successful enterprise."

Sullivan hopes that his program will parallel a reorganization of the Urban Renewal department in Lowell. As in many cities, this department has control of the city planning specialists, making access to planning experts difficult for the city manager's office.

# Gator takes "ugly" laurels

(Continued from page 1)

single candidate. Deja Vu, in getting a final total of \$749.40, set the record for the amount of money drawn in by a single candidate in the whole contest. \$1,148.93, the amount raised on the last day of the contest, was the highest total for a single day. Finally, the total raised this year was the highest sum raised in the history of the UMOC contest at MIT. The figure of \$2,195.69 (before expenses) is more than twice the total collected last year.

### Large donations

Burton Richards, chairman of the UMOC contest for Alpha Phi Omega, credited this year's success to two things. First was the proximity of the disaster in Pakistan, for which the money was raised. People, he felt, gave more freely due to the "great and immediate need" of the Pakistanis. Second was the spirit of the candidates themselves. When they saw that they were only \$10.00 apart at ten o'clock Friday morning, the last day of the polling, candidates, campaign managers and friends put up an all-out effort to win. Spurred on by two large donations, totaling almost \$180, the two highest candidates more than doubled what they had previously collected.

No passerby in Building 10 was unaccosted as the candidates made their final effort, and the noise they created echoed the long halls of the Institute's principal buildings. Every available dime, nickel and penny was

sought by the aspiring uglies and their supporters as they vied for the crown of Ugliest Man On Campus.

The Elect Deja Vu UMOC Committee, on behalf of their candidate, has made the following statement to the MIT community in the wake of their hard-earned victory:

"On behalf of Deja Vu we would like to thank all those who contributed to our campaign this past long week. In

particular, we thank Dr. Kenneth Goddard for helping to keep the alligators and iguana healthy. We are also in debt to Dick Fletcher of the Young Republicans. We are proud that a record \$2100 was raised to help Pakistan. We wish to commend the other candidates for their fine efforts."

In the words of Chairman Richards, "Thus closed the most successful UMOC campaign at MIT."

## Announcements

\* A grant of money is available for student use during the January Independent Activity Period. Both grad and undergrad students should submit applications for such moneys to: Peter Lindner, Rm. 641 Baker House, (x 3161). Applications should be in by December 8, and should include a reasonable dollar amount, restrictions on participations (if any), and a description of the activity.

\* If you plan to hold a mixer in the Student Center during the Spring Semester of 1971, you must submit an application to the Student Center Office by 12 noon on December 10th, 1970. There will be a meeting to schedule all applications for mixers at 3 p.m. December 10th in room 473 of the Student Center. Please be sure to attend this meeting if you wish to have your application scheduled. Applications are available in W20-345.

\* The deadline for applications to cross-register at Wellesley is December 18. Forms may be picked up at the Dean's Office 5-104.

\* Transcripts with first term grades included will be available beginning the week of January 18, 1971 if orders are placed now. Transcripts with January period grades included will be available beginning the week of March 1, 1971.

### GRADE REPORTS

1. First term grade reports will be mailed to the home address, except for foreign addresses on Friday evening, January 8, 1971.
2. The report may be sent to the student at a different address if he goes to the Registrar's Office no later than January 6. Telephone requests will not be granted.
3. Term reports will be sent to the parents of first year students.

\* The Creative Photography Laboratory has abandoned the waiting list for 4.051, and replaced it with a lottery to determine class composition. This lottery will be limited to upperclassmen and graduate students. Interested students must submit their names to the Creative Photography Lab secretary, W31-310, between December 1 and December 14.

\* This year's Christmas Convocation will be held on Tuesday, December 15 at 11 a.m. in Kresge Auditorium. Dr. James Killian, Chairman of the Corporation, will be the featured speaker with music provided by the brass choir and organ. Refreshments will be served after the convocation.

\* The International Agency for Research on Cancer in Lyon, France, is offering Research Training and Travel Fellowships, 1971-72, to junior scientists for training in laboratory and clinical cancer research and to established cancer workers for travel and planning projects. Further information in Room 10-303; ext. 5243.

\* RESEARCH FELLOWSHIPS are available for study in Mathematics, Engineering, Applied Physics, Naval Architecture and Industrial Chemistry in the Netherlands, 1971-72. Delft University and Twente University of Technology. Further information in Room 10-303; ext. 5243.

\* There will be a meeting of the MIT Scuba Club on Wednesday, December 9, at 8 pm in 20E-017. Alan Adolph of the Retina Foundation will speak on "Recording Optic Nerve Activity Underwater in Freely Moving Horseshoe Crabs."

Faculty and administration response to our request for subscription payments is still incredibly low. Because of this, and because the concentration of school work in the next two weeks will keep us all busy, we have decided to continue mailing the paper to all those who have been on our mailing list so far this year. Between now and January, however, we will process all incoming subscriptions, and beginning after the vacation *only* those faculty and administrators who have paid will receive their papers.

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Analysis:

# Education at MIT?

By Alex Makowski

"Most of the faculty in the department treat undergraduate education as a necessary chore." an MIT professor.

Every year more than 900 students are lured to MIT by the promise of the best science-oriented education in the country and the knowledge that an MIT degree is a key that unlocks many important doors. The key probably fits as well now as it ever has, but for many students a shadow of doubt shrouds the educational quality.

**Rosy promises**

The rosy promises of admissions counselors and President Johnson's annual reassurance that undergraduate education is indeed the focus of MIT's intellectual commitment gradually pale before the day-to-day reality of boring, uninterested teachers and occasional candid comments. The professor quoted above could have come from any number of science or engineering departments; too many students have confirmed his insight with their own observations.

This knowledge should sear MIT's conscience. The hypocrisy of a veneer of classrooms and textbooks over a core of laboratories and research tracts should provoke both student criticism and faculty soul-searching. Instead, undergraduates concentrate on piling up credit hours and seeking intellectual stimulation elsewhere while their professors satisfy their own priorities - shoring up their professional stature (and saving their jobs here) by directing graduate and post-doctoral research.

**Harsh criticism?**

Some may argue that this is rather harsh criticism. But that same professor quoted earlier reported from the battlelines of his own colleague's struggle for tenure that teaching counted a bare 10 or 15 percent. From another department outside science and engineering comes the report of a teacher with an excellent reputation among undergraduates for teaching, a record of time on the Committee for Student Environment, and an interest in inter-disciplinary work. Unfortunately for him and future MIT students, his department stresses narrow specialization and work with graduates, so his chances for promotion are weakened. And getting down to the nuts and bolts of money, an informed source within the administration has noted that the cost of educating a freshman for a year runs about \$1,000. In view of the large-size core courses involved, this isn't too surprising, but it still is unsettling.

**Research and education**

The research/education division obviously lies at the heart of the trouble. As many faculty members and administrators note, a university's reputation rests with its research, not its teaching. Why else import a Nobel prizewinner and give him a good-size chunk of research space for work with post-docs only? Why else grant tenure to experimentalists while teachers leave for other schools? There are exceptions, of course, but too often they seem the result of a dynamic or forceful individual, rather than the Institute's policies.

One need not believe teaching

to be "superior" than research to get upset. While there may be nothing inherently more moral about teaching than research, it is unjust to advertise one while the bulk of the resources go to the other. Faculty members have their careers to consider, but students commit \$10,000 and four years here - they deserve a valuable return.

**What the money buys**

What are students paying for now? For their money MIT will grant them the prestige of being numbered among the top .1% of the nation's technical students. The more aggressive undergraduates are rewarded by exposure to the cream of the nation's scientists, but too many will hesitate to venture within the lab where they do not yet fit. When the criterion for advancement here is research excellence, is it any surprise that many faculty are uninterested in their undergraduates?

**Ten fingers**

The hope, of course, is that the good experimentalists will shine in the classroom as well. Some do: any upperclassmen could list, albeit on the fingers of two hands, the good teachers (Please turn to page 5)



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# Sexuality: taught or lived?

By Lee Giguere

The recent controversy over the Student Homophile League's proposed mixer has made one thing clear: the campus needs some form of sex education.

In answer to this, a group of students is working with two members of the medical staff to plan a lecture series on the topic of human sexuality for the spring semester. The Dean's office is sharing the funding of the series with LSC. (During the discussion of the mixer, Dean for Student Affairs J. Daniel Nyhard spoke of the need for a program at MIT in sex education).

Dr. Samuel Clark, Associate Director of the Medical Department, who is assisting the planning group stated in an interview with The Tech that he hoped the series would get into the area of public attitudes towards sexuality. He also explained that the handling of any topic would depend on the individuals lecturing.

Dr. Clark promised that the series would be more than just a "nuts and bolts" offering and would emphasize psychological aspects of sexuality as well as general attitudes. He listed the three areas that would be covered as: sexuality per se, contraception and abortion, and venereal disease.

The question arises, however, as to just what role such a program can play in the development of a person's sexuality. The lecture format tends to become impersonal, making it an

inappropriate arena for the discussion and exploration of human sexuality. The planning group, in adding seminars to the program, seems to have recognized this problem.

But further examination leads to the question of just what role any "official", organized program can play in a person's sexual development. Traditionally, a person developed his sexuality through his family. But today's family structure is no longer one in which several gener-

rations lived together in close association. The small family unit common today permits only a limited opportunity for the child to explore personal relationships and so develop his sexuality. And, Sexuality, in its fullest sense, is how a person relates to other people, in general, not just to those of the opposite sex.

A lecture series, or even weekly seminars cannot provide the kind of human contact that (Please turn to page 5)

# Humanities department fails to fulfill potential

By Harold Federow

In the current crisis over the control of technology and over the effect of technology on the human spirit, there has been a voice that has been curiously muted. That voice is the voice one would expect to be raised not only loudly, but also early: the humanists - the writers, philosophers, etc., who are actively concerned with Humanity.

Instead whave scientists and even technocrats who are raising the loudest protest about technology. Surely the cause of this is not a lack of understanding of what can be accomplished, or where these accomplishments will lead. But then to what can we attribute this lack of voice?

**Unique department**

In light of the above remarks, I would like to make some remarks on the humanities department here at MIT. In many ways, the humanities department at MIT is unique. It is probably one of the best situated departments in the country for the study of science and technology and the men that

participate in these endeavors. Further, the situation that prevails at many colleges and universities is reversed here: having to teach science to non-scientists becomes having to teach non-science to scientists.

The chance for infusing the atmosphere of science and technology with humanitarian considerations is enormous. Unfortunately, however, this task is left to others. Nor is this entirely the fault of the humanities department.

Science and technology are ultimately concerned with quantities that are knowable and verifiable. The humanities are not; or at least they are not verifiable in the same sense. For this and other reasons, the humanities tended to be looked down upon, both among the faculty and the students. (How many times have you hears someone say, "Oh, what can you expect from a humanities major?") In addition, for many students it is irrelevant to their interests, or so they think.

(Please turn to page 5)

# Letters to The Tech

**Mixer revenues**

To the editor:

Over the past couple of months, the GA has indicated several times that it supports the right of the SHL to hold a gay mixer in the Student Center, but it has consistently refused to do anything to help. Granted that it may not be able to override the Dean Nyhart's veto, but it can put certain restrictions on Administration-approved mixers. SHL has asked the GA to use this power to ensure that part of the proceeds from these mixers be used to provide equivalent facilities for use by SHL (dance halls rent for \$400-\$1000 per night) and to work towards getting the Dean to rescind his veto.

It seems only fair that part of the benefits obtained as a result

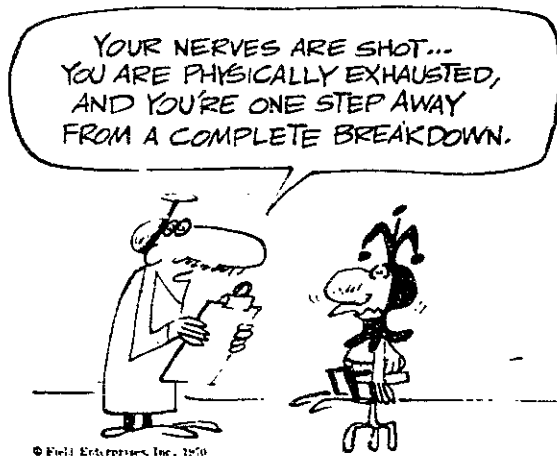
of rights of privileges held by one group should be used to obtain those same rights and privileges for all others. The GA should recognize that when the Dean denies a request for a mixer for reasons stemming from questions of private morality as is the case here, the entire MIT community suffers, not just gay people. If the wishes of the GA and the student body can be thwarted on such flimsy grounds as these, no group is safe from discrimination. It is in everyone's best interest to prevent such illegitimate use of power by the Administration.

Since those sponsoring and attending mixers at MIT benefit the most from this particular privilege, they should do the most to protect this privilege. (It is as reasonable as taxing gasoline to build roads - assuming you want the roads.) The simplest and most direct way to do this is to fund the SHL in educational projects. Right now, in cooperation with other Boston groups, we are working on a newspaper, a community center, street theatre, legislative reform and numerous other projects which desperately need funding. I think those people sponsoring mixers ought to help us here, or help us rent an equivalent dance hall somewhere off campus. The GA doesn't think so. They would rather see us all hang separately.

Stan Tillotson

**THE WIZARD OF ID**

by Brant parker and Johnny hart



## Education at MIT?

(Continued from page 4)

he has had in three or four years. But perhaps more normal is one teacher who spends fifty minutes, three times a week, lecturing to the blackboard, continuing even when the roar of a low-flying plane drowns out his voice completely and only the movement of his lips reassures his students that he is still teaching.

The argument that continuing experimentation keeps a professor in touch with current knowledge doesn't wash. Undergraduate instructors, in any case, would seem to profit more from time spent in the library surveying advances across the entire breadth of their profession than hours spent in their lab tackling the intricacies of the structure of some polypeptide. Their students aren't ready to absorb or appreciate such specifics, though familiarity with several branches of a discipline lends competence to teaching.

What MIT needs, then, is a greater emphasis on teaching ability when departmental promotion decisions roll around. Presently, for example, wide student input on tenure decisions

remains the exception, rather than the normal procedure. And, safe in their labs, the established faculty deride those junior professors attracted to teaching for being "not good enough" to make the grade in research. Only when students and concerned faculty push for a change in these policies and attitudes and others like them will MIT be able to boast of a truly quality education. Until the personal concern expressed by such administrators as Johnson and Wiesner seeps down to the departmental level, undergraduate education will continue to suffer. Comparisons with other schools notwithstanding, a lot here needs changing.

What of MIT's reputation? Speaking realistically, it would probably suffer. But perhaps the gain in stature from teaching would outweigh some lost prestige in research. Maybe if as well-regarded an institution as MIT took the lead in improving undergraduate education, other schools would follow suit. Suppose MIT were more willing to recognize those schools sending along well-prepared and well-educated students for graduate

work? Universities around the country might base their opinion of other schools on something more than the number of papers published annually in the physics journals.

What of those faculty that may argue that the amount of resources and personnel invested already in research suggest the total divestment of undergraduate work? Besides the concept of a responsibility to society, there is a more compelling reply involving only MIT's well-being. During times of increasing specialization, professionals need exposure to interested and critical laymen lest they find themselves losing their sense of perspective. The challenge of undergraduate education could also provide valuable practice for those professors committed to teaching graduates.

Finally, were undergraduate education discontinued, MIT would be held together by little save the central heating. After all, working with undergraduates remains about all the faculty here have in common. Undergraduates provide MIT with the atmosphere and excitement industrial research and development facilities lack and think tanks can only generate because of their small size. Without undergraduates, MIT would likely fissure into several poorly connected departments, and what sense of community we now have would disappear.

MIT sham

Since undergraduate education can be justified, and since the students are paying so much money and committing so much time, it seems reasonable that MIT must reconsider its priorities. A little more pressure from students and parents, a little more effort from administrators, and a change in attitude among much of the faculty — all this might someday end the sham of MIT picturing itself as a quality educator.

## Money wasted on fast for Pakistan

By Bruce Peetz

Last Thursday more than half the people on Commons gave up their meals to help fill the coffers of the Pakistan relief fund.

The ad hoc committee of Dorm Comm that cooked it up did so with the best intentions of obtaining money from the students. It netted \$1,090.80. It wasted \$860.38.

Each student on Commons pays three dollars a day for his meals. Only \$1.66 of this is normally used for food and thus available to the fund. The rest is primarily salaries for the workers, which must be paid whether the students show up for Commons or not.

Further, the Dining Service, as a part of their obligation to the students, had to keep excess food on hand in case those signed up for the "fast" elected to buy meals for an additional \$3.00. Consequently, the scene in Commons last Thursday consisted of racks of food that would be eaten another day — reheated. The workers, having nothing else to do, played cards.

For one thing, there was some question among students if this was really supposed to be a fast. Many misinterpreted the

flyers, thinking that Baker would be the only West Campus dining hall open, and that everyone would transfer there, it being less expensive to operate one dining hall than many. As a result, at least ten students backed out of the program at MacGregor alone.

Many other students merely bought food to eat elsewhere. Those who did also spent at least \$1.66 for the day, leaving both the students and relief fund on the short end. Buying any two meals back from Commons that day exceeds \$1.66 and so does eating out elsewhere.

In its initial stages, the program had a lot of glamour. It appealed to the liberal spirit and the humanitarian. It produced guilt feelings by setting up booths at the entrance to the dining halls.

There were, and still are, ways of contributing cash to the Pakistan relief fund. Last week UMOG was devoted to it. APO has various fund raising activities for the relief fund. Any of the 657 students who bought food during the "fast" would have better served the Pakistanis by contributing cash instead of good will.

## Humanities

(Continued from page 4)

In *The Technological Society*, Jacques Ellul shows what happens to a society which follows only technological imperatives. If these are not to be the only considerations, then a constant and unremitting pressure on the part of the humanists must exist. But how many courses on the effects of technological excess are being conducted in the humanities department? It is these problems, as well as those with which it is traditionally concerned, that will give the humanities department a new direction for the future.

This attitude results in the humanities department at-

tempting to justify itself. This justification takes the form of concentrating on scholarly pursuits, and giving shorter shrift to teaching, like many other departments. But this latter effect contradicts a major premise involved in the building up of the department. This premise is that the humanities department should be a teaching department. This would not denigrate creativity and scholarship, but teaching would be the prime emphasis; almost, as Dr. James Killian put it, "like a liberal arts college." Thus the department's *raison d'être* pushes it in one direction, the external pressures in another.

## Human sexuality in human relationships

(Continued from page 4)

a person needs to develop his sexuality.

Further, MIT's environment—sterile, problem oriented and highly aggressive—is not conducive to the development of individual sexuality either.

What is needed is a family-type environment, where people are not placed in competitive situations, but rather in a envi-

ronment of general trust and understanding. The ideal of co-ed living is just this environment, where the competitive dating situation in which adolescents and young adults most often meet is replaced by a more relaxed group living experience.

This is the direction, then, that efforts in "sex education" ought to move. Personal encounter programs, emphasizing the development of mature personal relationships can be the only completely successful program. The proposed lecture series certainly has a place in the development of individual understanding of human sexuality, but clearly more is required. And just as clearly, organized "programs" are not the answer.

One part of the solution is contained in the report of the MIT Commission. Students need more time for reflection and social activities. The work load carried by many students leaves them little "free" time for developing the relationships with people. In the extreme, this can lead to a feeling of "guilt" for "wasting" time just talking with people.

Another part of the solution rests in ending the artificiality of the environment in which most students live. This involves not just segregation by sex, but, in general, an isolation from real relationships and real interpersonal dependencies. MIT students have not been noted for their ability to develop personal relationships, and an environment which would aid this should be developed.

*The Tech* welcomes its readers to submit letters to the editor on any subject of general interest to the MIT community. Letters will be printed subject to space limitations.

All letters should be typewritten and triple spaced; all letters must be signed. Letters may be sent through Institute mail to W20-483 or by the U.S. postal system (unless it collapses from its own weight) to Box 29, MIT Branch, Cambridge, Massachusetts, 02139.

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(PP 91-105—ONLY 15 PAGES)

# Gymnasts top UP, Harvard



Photo by Sheldon Lowenthal

Bob Barrett demonstrates one of his finest scoring moves in floor exercise. Barrett turned in some excellent scores over the weekend. The gymnasts meet New Hampshire on Wednesday night at 7 pm.

## Edged by Boston St. Take Harvard, U. of Penn

By Jarvis Middleton  
After losing its season opener to Boston State Saturday by four tenths of a point, the MIT gymnastics team rallied to crush Harvard and win easily over the University of Pennsylvania on Sunday.

Saturday, the Techmen found themselves behind Boston in scoring only after floor exercise, the first event. From then until the high-bar event, MIT held the lead. However, the team is now feeling the blow the loss of Don Wahl has delivered. Wahl is suffering from a broken bone in his neck. The final score was MIT 109.65 and Boston State 110.05.

In the meet several team members took first places. Dave Beck, in floor exercise, won a first with a score of 8.1 which qualifies him for the N.C.A.A. Ken Gerber, the captain and one of the all-around men, placed first on the still rings, and qualified for N.C.A.A. He also placed

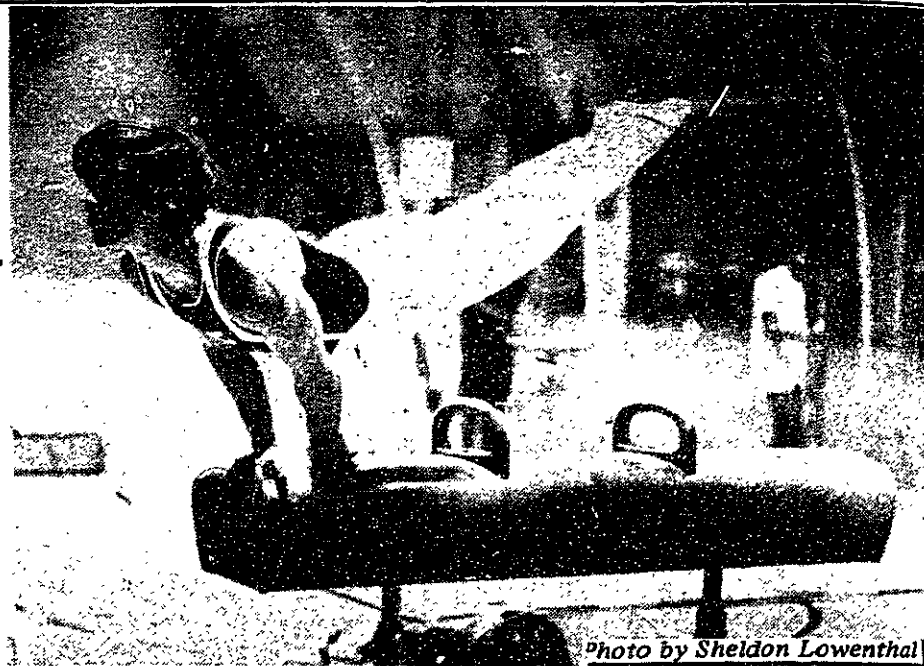


Photo by Sheldon Lowenthal

Paul Bayer, '73, the number one side horse specialist, in action. The gymnasts were edged by Boston State on Saturday despite some fine performances. On Sunday, though, they beat Harvard.

on side-horse and parallel bars. Rich Daub placed second in vaulting while also scoring on floor exercise.

Coach Lilly says the team did well and if it hadn't been for a few bad breaks the team might have won but by a still close margin.

Sunday, with the heartbreaking defeat still fresh in their minds, the gymnasts hit every event with determination. Even with the tougher scoring, MIT led Penn throughout the meet. Harvard never presented a threat in the scoring, while suffering from a very small team and not enough men to put in each event. The final score was MIT

97.95, Penn 94.7, and Harvard 42.7.

Larry Bell was the most outstanding performer of the day. Bell, after placing on parallel bars Saturday, came back and placed again Sunday while working every event.

Now the team is preparing for one of its roughest tests. Wednesday night at 7 pm, MIT will meet powerful New Hampshire. Coach Lilly paints a gloomy picture of the meet for which every team is not prepared.

From the meet Wednesday, the team will participate in its first away meet. Friday, it takes a trip to Lowell Tech. Lowell Tech is also not expected to be an easy meet, but Coach Lilly feels the MIT team is ready now for any team in the league. He is looking now to the New England Championships where the team will have another shot at Boston State.

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The Tech

Sports

Basketball wins over Brooklyn College

By George Vitek

MIT's varsity basketball team remained undefeated in the young season as they defeated Brooklyn College 66-52, Saturday night. The Techmen broke open a close low-scoring game as they tallied 43 points in the second half. Brooklyn College cut the lead to 7 points late in the game, but MIT was able to break the opponent's press.

High scorer for MIT was Jerry Hudson '73 with 21 points, 18 in the second half. Harold Brown '72 added 18 and Fred Johnson '73, 10. Brooklyn College was led by Mario Marchena with 15 points and 6' 8" center Max Harrison.

The first half saw a tight defense and sloppy play by both teams. MIT jumped to a 10-4 lead behind the scoring of Brown. Brooklyn College came back to within 2 at 16-14, as Harrison dominated on defense. MIT was unable to work the ball inside to either Hudson or Brown. However, with 7 minutes remaining Harrison was forced to sit down with 3 fouls. MIT then went right to the basket as forward John Lange '73 scored 4 points. The half ended with MIT leading 23-20.

Tech came out shooting in the second half and quickly ran the score to 33-23. MIT worked the ball in to Hudson and Brown, knowing that Brooklyn's center, Harrison, had 3 fouls. The strategy worked as Harrison fouled out with 13:11 remaining. MIT then worked the ball inside to Hudson who scored 7 points to make it 48-33.

Brooklyn College began to press with 7:40 remaining. They were able to bring the lead down to 50-43 and 4:50 remaining to play. Jim Shields '71 and Gerry Loe '71 took control of the backcourt after Captain Bruce Wheeler '71 fouled out. MIT

broke the press as Johnson and Hudson started going to the basket and Brown started hitting the backboard. Shields and Hudson scored MIT's last 7 points as the game ended 66-52.

Brown led the rebounding with 10, followed by Johnson 8, and Hudson 7.

The freshmen defeated Brooklyn College's freshmen 65-60 as Jim Evans led Tech scorers with 23 points.

The varsity plays at Brandeis tonight and visits Trinity Saturday.

	G	FT	TP
Shields	0	5-7	5
Wayne	0	0-0	0
Wheeler	2	0-0	4
Stanley	0	0-0	0
Teal	0	0-0	0
Johnson	4	2-5	10
King	0	0-0	0
Loe	1	2-2	4
Hudson	8	5-8	21
Brown	5	8-12	18
Godfrey	0	0-0	0
Lange	1	2-2	4
<b>Totals</b>	<b>21</b>	<b>24-36</b>	<b>66</b>

On Deck

Today		
Basketball	MIT(V)	vs.
Brandeis; 8:00 pm;	Away.	
Basketball	MIT(F)	vs.
Brandeis; 6:00 pm;	Away.	
Swimming	MIT(V)	vs.
UConn.; 8:00 pm;	Away.	
Swimming	MIT(F)	vs.
UConn.; 6:00 pm;	Away.	

Icemen's record at 1-1-1

By John Kavazanjian

The varsity hockey team opened its season this past week with three games against traditionally tough teams: last weekend it was a 5-3 win over WPI while this weekend the icemen managed a tie with Babson and were edged by Trinity.

In past years, Tech has generally split with WPI, but this year may be different. This year's home series started with a win, with the Techmen outskating the visitors from WPI, something that has not happened for a long time.

The Tech skaters started off the game at a sluggish pace, with WPI scoring first, at 6:28 of the first period. About halfway through the period though, MIT came alive, pounding shot after shot on goal, scoring on two of the eleven shots. Bill Barber, '71, scored at 15:25 on passes from defenseman John Miller, '72, and wing Andy Jarrell, '71. MIT hit again at 17:33 of the period when Tom Lydon, '73, took a pass from John Bunce, '71, and put a good wrist shot past the WPI goalie. WPI came back though, scoring at 4:24 of the second period to tie the score at 2-2. At 12:36 of that period, Jerry Horton, '72, took a pass from Jarrell, skated around the WPI net, and dunked the puck in around the corner of the post. Later with WPI on a power play in the third period and the Tech penalty killers pinning them in their own zone, Bob Hunter, '73, intercepted a pass at the blue line and blasted a backhand past the WPI goalie to extend the margin to 4-2.

WPI scored on a slap shot at 16:39 of the third period to again draw near, but last year's high scorer, Barber, scored again, this time neatly beating the goalie on a breakaway at 19:20 to sew up the win.

Friday night the skaters met Babson, one of the more physical teams on the schedule. The Techmen went into the game determined not to be outskated and physically punished as happened last year. Despite playing well, they had to come from behind to salvage a 5-5 tie.

Babson again scored first early in the game, and hit as hard as ever, but the icemen hit right back. Taking advantage of a Babson penalty at 6:10, Barber tipped in a Jarrell wrist shot at 6:25 to tie the score. Babson scored again at 11:51 to make the first period score 2-1.

The second period saw probably the toughest playing of the game, with neither team able to effectively penetrate the others defense. When the visitors did get through, they were stopped on some great goal play by goalie Ken Lord, '71. Finally at 14:39 with two Babson players off on penalties, Lydon drove a hard slapshot from the right sideboards to score. Just sixteen seconds later with one opponent still in the penalty box, Gary Gibien, at the right point, took a pass from Mike Mathers, '73 at the left point and took a shot which was tipped in by Marc Carignan, '71, making the score

3-2. One minute later, Babson tied it on a disputed goal that the MIT team claimed never cleared the goal line. At 2:07 of the third period, MIT scored again, Lydon from Horton and Jarrell and the score was 4-3.

Due to two Babson penalties, MIT again found itself two men up, but on the ensuing faceoff, a Babson forward stole the puck and went in on goal, scoring on the breakaway. Babson scored at 17:19, but the Tech icemen did not give up. Goalie Lord was pulled giving an extra skater, and Coach Martins strategy paid off when Bill Barber tipped in a shot by Andy Jarrell to send the game into overtime.

In the overtime, neither team scored, but two penalties forced Lord to make 11 saves, running his total for the game to a phenomenal 45 including 19 in the first period. A total of 48 penalty minutes marred the game.

In the Trinity game, Trinity and MIT each got quick goals in the first period, and Techmen's coming on a goal by Mike Mathers on passes from Horton and Lydon. A long goal famine ensued with the icemen failing to score on three power plays in the second period.

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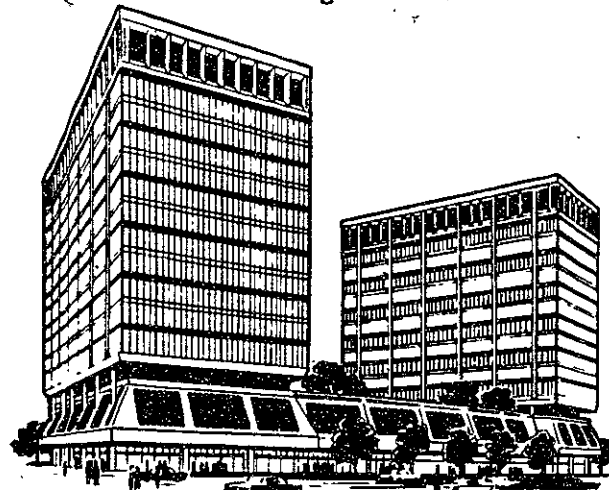
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# Trackmen take BC, Bates

By Pete Peckarsky

The Tech, tracksters shot down the Boston College Eagles 58-55 and mastered Bates 81-23 in dual meets Thursday and Saturday in Rockwell Cage.

Junior varsity competition was neck-and-neck all the way as the JV squad tied BC 52-52 and eked out a 48-45 victory over Bates. Due to a National Collegiate Athletic Association ruling allowing freshmen to compete on varsity units, fresh competition has been virtually eliminated in track as well as a number of other sports.

Brain Moore '73 led the Engineers in both meets by copping first in the weight throw and shot put both days. At this early point in the season, his effort of 55 ft. 7 1/4 in. against Bates was outstanding. Alexander Tschyrkow '74 also scored in both meets with a third and a second, in that order in the shot put.

Al Lau '71 and Scott Peck '73 nailed first and second in the broad jump each day. Against BC, Peck came through in the clutch in the trials as he failed to qualify on his first two leaps but marked up 19 ft. 8 in., off the wrong foot, to reach the finals.

Walter Gibbons '73 best effort was 6 ft. 3 1/2 in. on Thursday as he won the event twice. The pole vaulting triumvirate of Dave Winson '73, Ed Rich '72, and Charlie Gentry '72 swept the pole vault in that order against both opponents.

Elliott Border '73 hit the tape first in the 50 yard dash on both occasions and also ran a fine anchor leg on the victorious mile relay team against Bates. Bob Tronnier '73 hurdled to two wins in the 45 yard highs with Lau clipping in a second and a third.

John Kaufmann '73 pulled off a tough double in the mile and two mile against BC coming up with the needed first in the two to nail down the victory. Terry Blumer '73 led for the first half mile as Kaufmann and three Eagle entries shadowed him. Catano of BC moved into the lead after the first half as Bosco, also of BC, and Kaufmann stayed on the leader's heels. With a half mile to go, Kaufmann moved out strongly to win.

On Saturday, Kaufmann and Bob Myers '72 finished one-two in the mile. Myers and Scott Baumlner '74 ran a smart race in the two with Baumlner taking the lead at the mile mark and holding it until passed by Miner of Bates who finished with an extremely strong kick to cop the laurels. Bob Myers took out after Miner but could not close the gap as he finished second and Baumlner third.

In Saturday's 1000 yard run, Pat Sullivan '71 led until the gun lap when Greg Myers '73 and Bates' Bradford passed him. Myers and Bradford engaged in a ferocious elbowing battle which culminated in Myers' victory by a step over Bradford.

- Boston College
1. 35 lb. Weight - 1. Moore (M); 2. McQuade (B); 3. Gilligan (B) - 50'10"
  2. Broad Jump - 1. Lau (M); 2. Peck (M); 3. Helbig (B) - 21'11"
  3. Shot Put - 1. Moore (M); 2. McClure (M); 3. Tschyrkow (M) - 49'2 1/2"
  4. High Jump - 1. Gibbons (M); 2. McAloon (B); 3. Bari (B) - 6'3 1/2"
  5. Pole Vault - 1. Wilson (M); 2. Rich (M); 3. Gentry (M) - 14'0"
  6. 50 Yd. Dash - 1. Borden (M); 2. Helbig (B); 3. Walker (B) - 5.6 secs.
  7. One Mile - 1. Diehl (B); 2. Iles (B); 3. Kaufmann (M) - 4:30.4
  8. 600 Yard Run - 1. Walsh (B); 2. Riordan (B); 3. Kimball (M) - 1:16.7
  9. Two Mile - 1. Kaufmann (M); 1. Catano (B); 3. Bosco (B) - 9:51.9
  10. 45 Yard High Hurdles - 1. Tronnier (M); 2. Morrissey (B); 3. Lau (M) - 5.9 secs.
  11. 1000 Yard Run - 1. Walsh (B); 2. Iles (B); 3. Sullivan (M) - 2:21.7
  12. Mile Relay - 1. BC (J. O'Brien, K. Ryan, J. Riordan, J. Meere); 2. MIT - 3:43.4
  13. 440 Yard Dash (Non-scoring) - 1. Ryan (B); 2. Borden (M); 3. O'Brien (B) - 52.7

The Tech

## Sports

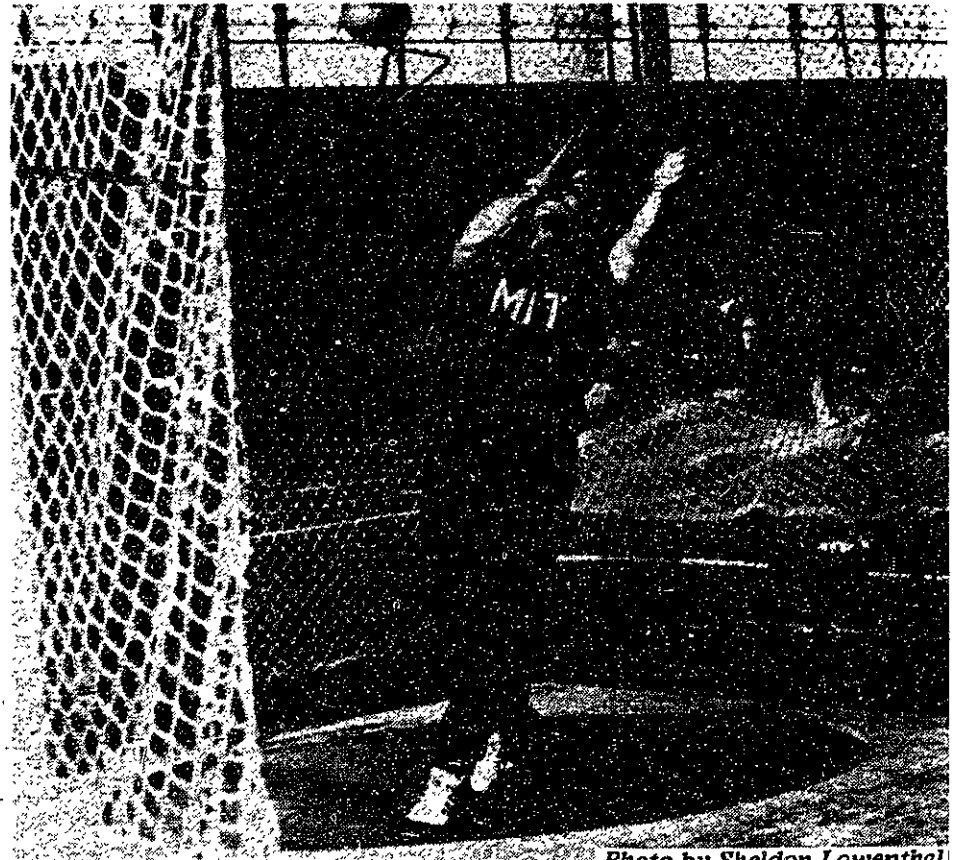


Photo by Sheldon Lowenthal

35-pound-weight thrower Brian Moore '73 lets go with one of his better throws of the day. Moore scored double victories in each of the meets this past week in the weight throw and the shotput.

## Swimmers swamp RPI

The varsity swimming team traveled to Rensselaer Polytechnic Institute in Troy, N.Y., on Saturday to open up its 1970-71 season. Once there the team did nothing to refute the argument that this is the strongest team in MIT history, defeating the host team before an appreciative crowd of swimming buffs.

Having lost the opening relay, and thus falling behind 7-0, the Tech swimmers put on an impressive show of youth, depth, and endurance in streaking to a 32-20 lead by the end of the first diving event. During the stretch, the aqua-men took all five possible firsts, sweeping the 1000 and 200 yard freestyle events.

Under a new league ruling, MIT must swim the 1000 yd. freestyle in all its meets this year. Sophomores Bob Paster and Ed Kavazanjian took advantage of this by leaving the nearest Rensselaer swimmer well up the pool at the finish. Paster's winning time of 11:43.5 was a new varsity record, evening up the score at 8-8. MIT then took the lead for good with a 1-2 finish in the 200 freestyle, super-freshman Ken Epstein leading the way, with co-captain Larry Markel following close behind.

Geoffrey Morris, another member of last year's powerful freshman team, triumphed in the 50 yard freestyle, and last year's Most Valuable Swimmer, Peter Hadley, '72, came back from swimming the butterfly leg in the medley relay to capture the 200 Individual Medley.

The Techs' swimmers outscored Rensselaer 44-7 in the freestyle events, Markel and Paster taking 1-2 in the 500 respectively, Epstein triumphing in the 100 yd. event, with Morris a close second, and the 400 freestyle relay team, consisting of Markel, Morris, Hadley, and Epstein, coming through with a narrow victory.

Epstein promises to be one of

the outstanding swimmers in the New England area for the next four years. His contribution to the relay consisted of a come-from-behind anchor leg.

The Tech swimmers didn't fare nearly as well in the odd strokes. Co-captain Al Graham, '71, added a second in the grueling 200 yd. butterfly to an outstanding effort in the opening relay. Sophomore Jere Lefler finished third in the 200 backstroke, and Pete Sanders, '72, finished second in the

breaststroke event.

Coach Batterman's expertise on diving was apparent as the divers garnered twelve out of a possible eighteen points, with Rich winning both events.

The team has two more meets in December. They travel to Storrs today to meet an always strong University of Connecticut team, and on Saturday they entertain Wesleyan at Alumni Pool. The varsity meet starts at 4 pm, and is preceded by a J.V. meet at 2:00.

## Riflers take Kings Point lose first to Coast Guard

By Larry Krussel

The MIT rifle team brought its year's record to 6-1 with a 1372-1368 loss to the Coast Guard Academy two weeks ago and a 1078-1020 victory over the Merchant Marine Academy this weekend.

Coast Guard

The riflemen had hoped to defeat the powerful Coast Guard team in a triple match also involving Providence College on November 21, but had their bid frustrated by a superb Coast Guard performance. Though the team beat Providence 1358-1317, the important match was lost mostly by below-par performance in the standing position which off-set fine kneeling scores.

The team was led by Bill Swedish, '71 at 278, followed by Tom Milbury '73 and Eric Kraemer, '71 at 274 each. Frank Leathers '72 and Jack Chesley '71 completed the five man team score with 267 and 265 respectively. The riflemen face Coast Guard several more times this year and hope to avenge this set back.

Merchant Marine

On a happier note, the Tech shooters had no trouble defeating the Merchant Marine Academy on their home range at

King's Point, New York. In this match Karl Lamson '71 led all shooters at 276 with Milbury, Kraemer, and Leathers at 269, 267, and 266 completing the four man score customary to college teams in the New York area. This match also completed the Varsity schedule until after Independent Activities.

Scott Beck '73 flies through the air in the long jump on Saturday. Peck and Albert Lau '72 took one-two respectively in the BC meet and two-one respectively in the Bates meet.

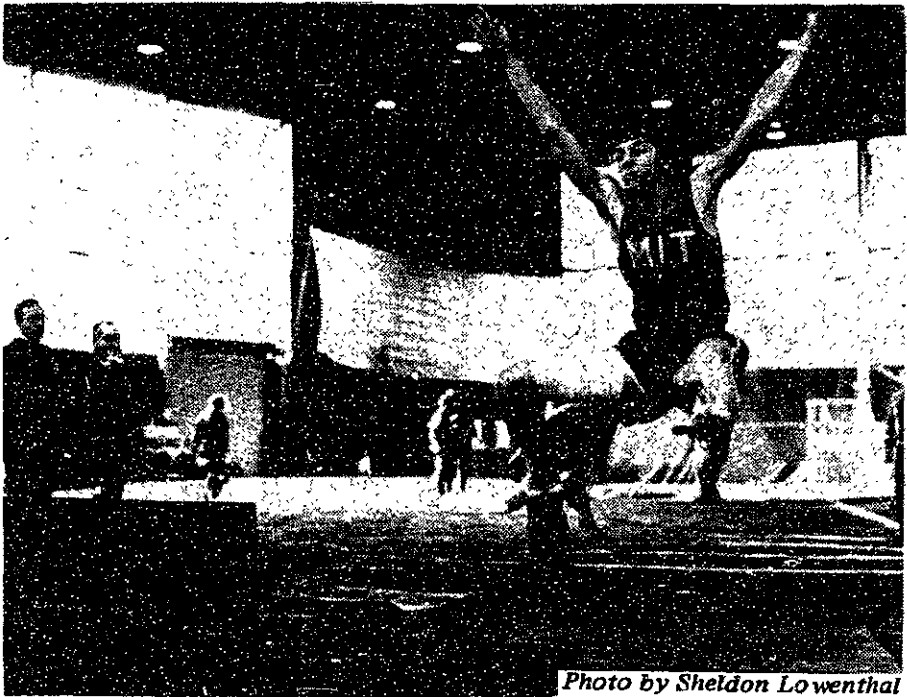


Photo by Sheldon Lowenthal

## Undefeated pistol scores key Air Force victory

On Saturday afternoon, the MIT varsity pistol team scored a major victory over the Air Force Academy, annually one of the strongest teams in the country.

The win was a big one for the Engineers, who have gotten off to a very good start this season. Competing in a five-team contest, the Tech shooters came away with the top score of 3317, followed by Air Force, 3303; Villanova, 3196; University of Pennsylvania, 2981; and Boston State 2930.

Although the MIT-AF match is a tradition on the first weekend in December, this year's contest represented the first time that MIT has beaten one of the major service academies in shoulder-to-shoulder dual competition. For the previous two years Tech scored 3318 points but was beaten by Air Force by 2 and 21 points.

In Saturday's match, John Good, '72, a promising All-American candidate, fired a su-

perb 850 out of 900, and was followed by Dan Flint, '71, with 832. Wayne Criswell, '71, came through with 281 in his last 300 for a total of 822 to win the match. Bob Gibson, '72, rounded out the scoring with a fine score of 813. The Tech squad jumped out to an early 20-point lead, but Air Force came back to within seven. The Engineers led all the way, however.

Only ten All-Americans are chosen each year from around the country, and with both Good and Flint being All-American material, this year's Tech squad figures to be one of the strongest in MIT history. The teams sports a 5-0 record, and recently tallied a fine score of 3335 without the aid of a couple of key men.

Last week the team started the season with a convincing victory over the Merchant Marine Academy, winning by over 200 points by a score of 3335 to 3123.

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