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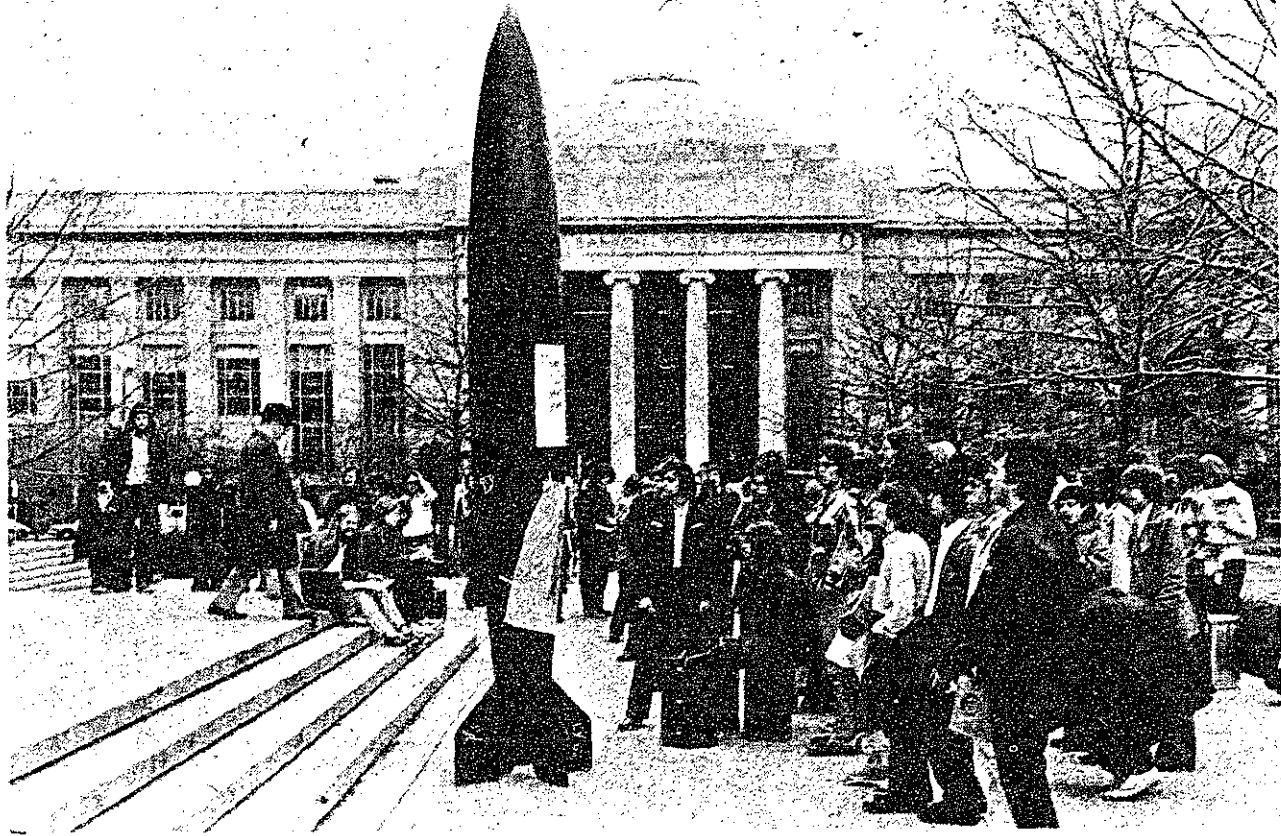
# The Tech

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VOLUME 95, NUMBER 21

MIT, CAMBRIDGE, MASSACHUSETTS

TUESDAY, APRIL 29, 1975



A mock atomic missile towers above a crowd of students in front of the Student Center during Friday's demonstration against the Iranian program, representing the concern of opponents of the program that it will give Iran the expertise to build nuclear weapons.

## Nuc-Eng sit-in held to protest Iran deal

By Thomas Spisak  
and Michael Dortch

Students and faculty staged a sit-in Friday in the Nuclear Engineering Department Headquarters to protest MIT's agreement to train nuclear engineers for the government of Iran.

The two hundred people participating in the protest met on Kresge Plaza for a brief rally before marching to Building 24. There, sitting in the hallway outside the Nuclear Engineering headquarters, they discussed the effects of the deal with department faculty.

The two-hour long demonstration remained quiet and peaceful, and the protestors made no attempt to obstruct access to the building.

Organizers said the demonstration had been planned because they felt that they had exhausted all "legitimate" channels of dissent at the Institute. "We're now in a stage where we have to progress to mobilizing people to fight this thing actively. That's what we're doing now," said Howie Shrobe G, a member of the Coalition Against Training Nuclear Engineers for the Shah, (CATNES), co-organizers of the protest with the Social Action Co-ordinating Committee (SACC).

Few of the students at the

sit-in characterized themselves as radicals. Most seemed more disillusioned than angry about the deal. One student said, "I'm here because I object to this so-called 'institution of higher learning' doing things that I consider dishonest."

There were various reasons for people's opposition to the deal. One student felt that it "really doesn't make a difference in absolute terms whether MIT does it or not because someone's bound to do it." He went on to say, however, that he did not feel that the agreement, or the way it was handled by MIT, was "defensible on personal terms."

Others objected to what they called the "selling of admissions to MIT." Many of the students present said they felt that they had been lied to by MIT.

When asked if the agreement with Iran had changed his opinion of MIT, one student said that he didn't think he would ever "have much respect for this administration again." Another felt that MIT was more "a big business" than a place to learn. "This (the agreement) has reinforced that opinion," he said.

The discussion in the hall of Building 24 was calm with only one reported outbreak of loud argument.

## USSR scientist hits homeland

By John Sallay

The Soviet Union has benefitted more than the western countries from scientific exchanges, according to Dr. Alexandr V. Voronel, a prominent Soviet physicist who was permitted to emigrate to Israel in December.

"Western societies are consuming societies and other countries want to be consuming societies,"

said Voronel in an interview with *The Tech* during a brief visit to MIT last week. He continued, saying that "Soviet life may be so narrow in the ideological sense, that there is a constant lack of ideas. Soviet science is very good in details and the development of things, but there is a lack of thinking. Things that Western people can receive from Russia are the details and not the original ideas."

Another reason that Russia has benefited from scientific exchanges is "the stealing of ideas and projects and constructions," Voronel said. "They think they must steal because the Americans are stealing. It is a

way of life." He added that "Americans don't understand that Soviet authorities want detente, but in a deceptive way."

Voronel is regarded as one of the foremost Soviet authorities on condensed matter physics. However, when he and his wife Nina, a poet applied for permission to emigrate in 1972, Voronel was forced to resign his post. He was able to

keep in touch with his field only through a series of officially unsanctioned weekly seminars with other Soviet scholars in a similar plight.

The Voronels were allowed to emigrate in December following a protest campaign organized by a committee of MIT faculty. "Maybe the organizing of this committee was the main cause of my release. I'm sure it was one of the causes," said Voronel. "I'm really grateful for such support," continued Voronel. "Soviet authorities appreciate very much contacts by Western scientists because they have much to profit from these contacts and must take into

(Please turn to page 10)



Dr. Alexandr V. Voronel

## New dorm to be ready for fall

By Leon Tatevossian

The new West Campus undergraduate dormitory will be ready for occupancy at the beginning of the fall term if construction continues as expected.

"Barring unforeseen circumstances," Assistant Dean for Student Affairs Kenneth C. Browning '66 told *The Tech*, construction will be completed by September. Officials were concerned earlier this year that only half of the dormitory presently called New House would be ready in September, making temporary housing necessary for residents (see *The Tech*, March 11, 1975).

Browning and Assistant to the Dean for Student Affairs Nancy J. Wheatley '71 were present at an Open House in the New House on Saturday. Students interested in living there were given an opportunity to see the inside of the dormitory.

New House is made up of a central arcade, and six small houses with entrances off the arcade. Wheatley explained that there are some central services, but that most facilities are contained within each of the six small houses.

There will be approximately

fifty residents in each house with the ratio of single rooms to double rooms about seven to one. Wheatley added that each house also has lounges and three to five kitchens.

Wheatley said she hoped that New House residents would be evenly distributed among the four undergraduate classes, but added that it is impossible to predict how many upperclassmen will decide to live in the dormitory. "The dorm is not coed," Wheatley said, "because there simply aren't enough women undergraduates."

The deans have not yet decided what kind of decorating privileges New House residents will have. "It's obviously a new building," Wheatley noted, "so people will not have as much freedom to do what they want with their rooms as in East Campus."

Students at the Open House had a generally favorable reaction to the New House. "I liked it. The rooms are very nice," a sophomore remarked, "but one problem is that there are five floors but no elevator."

Wheatley said that undergraduates who are considering applying for rooms in the New

House should stop by the DSA Office for information. There will be a room assignments meeting for all prospective residents Wednesday night, in the Sala de Puerto Rico, at 7:30pm.

## Research on humans probed

By Lucy Everett

A task force of the Committee on the Use of Humans as Experimental Subjects (COUHES) has been appointed by the Provost to develop guidelines to apply when rights or safety of human subjects might be jeopardized in social science experimentation.

COUHES is a standing MIT committee which reviews proposals for research using human subjects, as required by the Institute and the United States Department of Health, Education, and Welfare (HEW). Under a new HEW policy effective July 1, proposals for such experiments will have to be approved by a committee like COUHES before federal funds can be granted for them.

Existing COUHES guidelines were developed for biomedical



Myron Weiner, chairman of the COUHES task force

research, and are not always applicable to the social sciences, according to Myron Weiner, Chairman of the Department of Political Science and head of the task force. Since over one third of the research proposals submitted to COUHES deal with social sciences, Weiner said, the task force will attempt to determine what can be done to make the guidelines more effective in these areas and to make researchers more aware of the consequences of their experiments.

A university must carefully weigh the value of knowledge to be gained against possible risks to human participants, Weiner said. Such considerations will be used in defining standards for social science research at MIT.

The task force will consider codes of ethics used by pro-

fessional organizations, as well as guidelines being developed by other universities, in preparing a preliminary report to be released in October, Weiner said. A case-by-case analysis of proposals submitted to COUHES will also be made by the task force, the members of which represent COUHES and the departments involved in the types of research being studied.

According to Dr. Warren Point, Chairman of COUHES, the major requirement for approval of a research project is that "informed consent" be given. The subject must be fully aware of all risks and benefits. "Every precaution must be taken to see that no risks are taken unnecessarily or without full knowledge," Point added.

The idea of informed consent (Please turn to page 9)

# NOTES

\* All members of the faculty should notify the Head of their Departments by May 5 if they wish to march at Commencement on Monday, June 2, 1975. The Faculty will assemble at 10:00am in the duPont Athletic Center Locker Room with Professor A. Douglas Carmichael as Marshal of the Faculty. Miss Makris at the Coop. Extension 19275, would be glad to order regalia for faculty who call her no later than May 21.

\* Registration material for the 1975 Summer Session is available at the Registrar's Office, E19-335. The registration forms must be filled in and returned to the Registrar's Office by Wednesday, May 7.

\* MIT students and personnel are needed to work with mentally retarded children in Cambridge. Become involved in programs in recreation, sports, or community experience and self help skills. Start this summer or next fall. Call Urban Action, x3-2894, Jack Barry, x3-4497.

\* Professor Stephen Marglin of the Harvard Economics Department will talk on "Democracy in the Workplace - how do we get there from here?" at 8pm on Thursday, May 1, in Room 491 of the Student Center.

\* There will be a panel discussion in observance of Abortion Action Week on Friday at 5:30pm in the West Lounge of the Student Center, sponsored by the MIT Committee for the Right to Choose.

\* Michael Harper, the poet and author of *Dear John, Dear Coltrane* and *History is Your Heartbeat* will read his poetry on Thursday, May 1, at 8pm in the Mezzanine Lounge of the Student Center.

\* Undergraduate and graduate students pursuing projects in community service technical assistance, or fieldwork in the Greater Boston area may submit proposals for matching funds (\$400-\$800 per student) to the Office of Field Services, Laboratory of Architecture and Planning Rm. 4-209, ext. 3-1368, 3-1350 by May 13, 1975. Typical project areas will include environmental affairs, criminal justice and corrections, assistance to the elderly, civil liberties, recreation, health care, community development, youth services and education. Special consideration will be given to projects emphasizing direct service and improvement of agency programs. The resources of the Fund are very limited this year, and are intended to be combined, through the applicant's efforts, with matching support from community agencies, from UROP or other sources to provide total stipends of \$1200 per student. Decisions on grants will be made promptly. Proposal Guidelines may be picked up in the MIT Information Center (Building 7 Lobby), and in Rooms 3-234 and 4-209 (Lab. of Architecture and Planning), starting tomorrow.

\* Edmund C. Berkeley, one of the pioneers in the design and construction of digital computers, will speak on "Computers and Society," at 8pm Wednesday, April 30, in 112E Pendleton Hall, Wellesley College.

\* SACC will present a teach-in entitled "Indochina: What Next?" on Tuesday, May 6, at 7:30pm in 10-250, featuring Professor Noam Chomsky, Louise Bruyn of the Coalition to Free Saigon's Political Prisoners, and a representative of the Union of Vietnamese in the United States.

\* Moshe Safdie, Montreal architect who participated in the master plan for Expo '67 and designed Habitat '67, will lecture on "Generative System" at 5:30pm on May 6 in Harvard University's Piper Auditorium, George Gund Hall, 48 Quincy Street, Cambridge.

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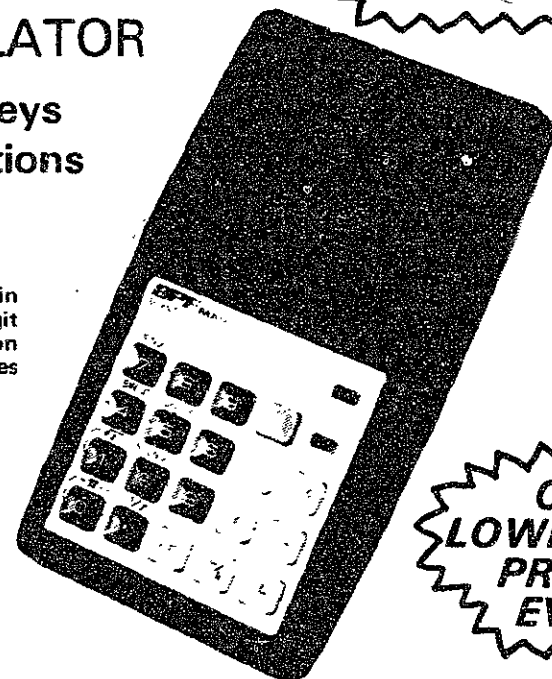


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Among the events and attractions at Kaleidoscope '75, held last Friday and Saturday, was an abundance of cotton candy (right) and a chance to sledge-hammer a car provided by Delta Upsilon three times for 25 cents (left).

Dave Green

Dave Green

## MIT's fund operations growing

By Mike McNamee

In the 14 years between the announcement of MIT's Second Century Fund Drive and last week's announcement of the MIT Leadership Campaign, fund-raising at MIT has come a long way.

Growing costs and budgetary demands have increased the need for gift income and endowment resources to keep the Institute going. And increasing dependence on gifts has led in turn, to increasing development of MIT's full-time fund-raising capability.

MIT now employs 35 professional staff members directly involved in "resource development," or obtaining gift income. In addition to that operation, headed by Vice President James Lampert, the Alumni Association maintains the MIT Alumni Fund, which employs several additional staff members.

If MIT has such a large on-going fund-raising effort, bringing in an average of more than \$20 million each year, why bother to have a fund drive?

"There are two basic differences between normal fund-raising and a capital campaign," according to Kenneth Brock '48, Director of Resource Operations. "First of all, a fund drive differs considerably from ordinary fund-raising in scale — when you're in a fund drive, you devote all the resources of the Institution to raising the money."

That difference, Brock pointed out, accounts for the

busy schedule faced by MIT officials like President Jerome B. Wiesner, Chairman Howard W. Johnson, and Chancellor Paul E. Gray '54 in the weeks ahead. Gray, Wiesner and Johnson are currently visiting potential donors and key alumni across the country.

The same factor accounts for the "special significance" that events like alumni conferences and open houses take on during fund drives. While MIT is planning no special events for fund-raising purposes, conferences and meetings that take place "will definitely play a role in the campaign," according to Lampert.

The second difference, Brock said, is the methods used by

fund-raisers during a campaign. "During normal times, you try to identify donors for particular purposes — who will give money for a certain building, for examples — and take proposals to them for the particular thing you want money for," Brock explained. "In a campaign, you go to everyone with money, you see what they want to give money for, and you take what they want to give."

One seeming anomaly of fund drives results from this principle, Brock said. "Almost all fund drives, even those which meet their overall goals, end up with some items under-funded," he said. "The Second Century Drive was like that — it exceeded its

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# Opinion

## Congress and NSF: more than headlines

By Michael McNamee

Unfavorable publicity is something with which the National Science Foundation has learned to live. "It comes in cycles, every couple of years," one NSF Congressional-liaison aide wearily explained; the last few weeks have been the peak of another cycle of Congressional ire with "zany grants" for research given out by the Foundation.

This year, however, Congress has carried its concern with NSF's "wasteful" spending to a dangerous level. The House of Representatives earlier this month voted to give itself and the Senate veto power over any grant made by the Foundation if it is felt that the grant is not a "valid" use of the taxpayers' money. Public pressure, caused by the latest cycle of "zany grant" publicity, has finally forced Congress to act out its role of budgetary watchdog at the Foundation's expense.

There are two very different kinds of Congressmen who contribute to the Foundation's headaches. The first is the fast-headline-grabber who delegates a staff member to scan the listing of NSF grants periodically and write a press release after finding some "crazy" titles. The Congressman then calls NSF, gets a couple of comments from the staff there, and makes a speech on the floor (to three sleeping representatives and 17 pages who are playing tic-tac-toe in the corner) before issuing the release about how NSF is wasting money.

The release is always printed, because newspapers like those three-paragraph filler items — "brighteners," as they're called. The hopelessly-conservative papers that most people read "Out There" elevate the press release to editorial comment on the profligacy of the federal government — Standard Editorial Topic No. 35. The Congressman gets a lot of letters — far-right conservatives always write more letters than normal people — and he runs for re-election for his 33rd term on a budget-cutting platform.

These Congressmen aren't too dangerous. They usually do their own case more harm than good — as, for example, when one representative became incensed recently because of NSF-sponsored research on the problem of ozone depletion. He didn't know what ozone was, and neither did his constituents, he said; and once his constituents found out that ozone was only air, and miles away from the earth, they weren't going to want to fund any egghead work on that, and neither would he. No one has asked him yet if his constituents know what skin cancer is. Sometimes representative democracy breaks down.

The other kind of NSF-baiting Congressman is more dangerous. These solons do their homework — their staff visits NSF and talks about the "zany grant," talks to the researcher involved, investigates the peer review that took place before the grant was given — before going for the publicity.

These Congressmen are looking for more than just the fast headline and equally-quick re-election; they have plans and programs for how the NSF should be cut back and corralled so as to prevent research "not in the taxpayers' best interests." Sen. William Proxmire (D-Wis.) is probably the most dangerous member of this group at present; he does his homework, he has a recognizable name and authority that gets his releases printed across the nation, and he has a very comprehensive plan for cutting NSF's budget and laying down guidelines on which research funding should be curtailed.

The problem with the second kind of Congressman is his mis-placed priority. Proxmire, for example, uses a considerable amount of staff time and effort tracking down \$100,000 grants on love or innovation when he could use that same time uncovering Pentagon waste that would probably approach NSF's whole budget of \$775 million.

What is probably the worst problem, neither type of Congressman understands the difference between different kinds of research. They all want research that can show a profit, that can produce pretty new gadgets and direct applications for use immediately. The old story about the Congressman who was told that only 20 percent of all basic research produced applications, and therefore insisted that only 20 percent of NSF's research be funded, is all too true.

Public esteem for science has fallen a great deal since the 1950s, when America was in a space race and fighting the missile gap, and every boy wanted to grow up to be an astronaut and scientist. Science isn't exactly fighting for its life right now, but its position in Washington is very shaky. I would be the last to call for a return to the days when technology was king; technology has caused nearly as many of our social problems as it has solved. But there's a need for sober reflection on the role of science in society today, and hard work to improve its standing in the public view.

## The Tech

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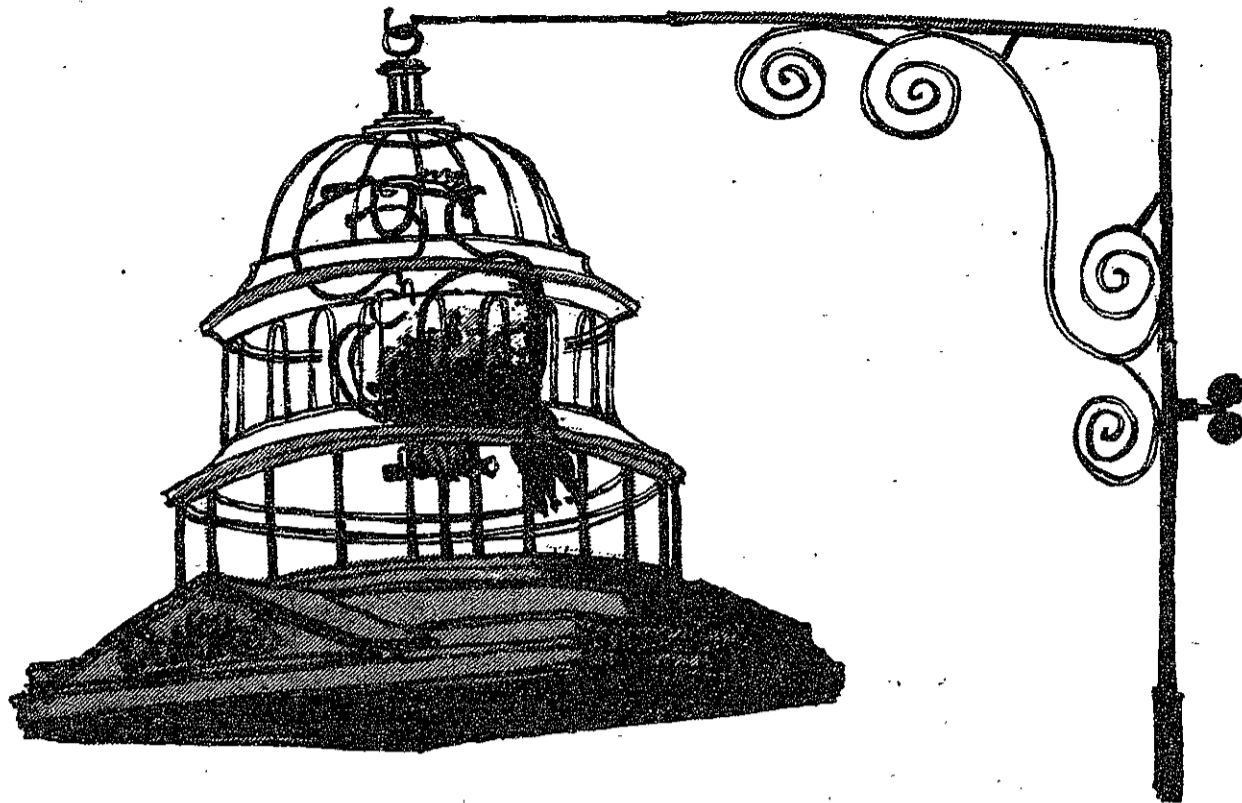
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Mike Peters

DAVID DAILY NEWS 1975



## Letters to The Tech

### What principles on Iran?

An Open Letter to the MIT Community:

We, members of the Chaplaincy at MIT, are disturbed about the trend at MIT, represented by the recent contract made by the Institute with the Iranian government to train 50 Iranian graduate students in Nuclear Engineering. There is a new departure from policy here which disturbs us: namely, making direct contracts with a government for the education of professional, technological expertise.

MIT is an institution heavily dependent upon research grants from the Government and from industries, considerably more so than most universities in the country. We worry about the drift into even greater dependence upon powers external to MIT whether within or outside American society using and misusing the Institute. We are concerned about the independence and integrity of an institution which we care about. We would like to see its independence increased, and a clearer articulation of the principles by which it will enter into an education contract. To whom will we sell our expertise is a question that demands a thorough and morally responsible answer.

In the present circumstances we are worried about the implications of MIT policy with regard to the Iranian contract. We worry about contributing to potential nuclear proliferation. There are those who say that all industrial nations now have nuclear bomb potential, but we resist any moves which contribute in any way to that everpresent potential.

MIT is an institution that stand for academic freedom and free inquiry. Whether or not Iran is more or less oppressive than other nations with which MIT deals, there is evidence that students and faculties at Iranian Universities who dissent against the present government's policies suffer great persecution. We know that they have been jailed, tortured, and killed. We raise the question, therefore, whether it is moral for MIT to support a government which perpetrates this kind of outrage against persons and academic freedom. Does not MIT's stance imply that we condone such policies? We ask why MIT is doing this? Is it because we need the money? Is it because we believe that the Iranian government needs and deserves our help? Is it because we are serving United States interests? What is the reason? We

have not heard a clear answer. We reject the argument that technology is by nature good and elevating. We are concerned with the uses of technology. We feel that we must be responsible for the power that we have at our disposal.

So again we reiterate the question: on what principles does MIT stand? Are there any conditions under which we would not train the best brains of another nation? Are there any conditions under which MIT would refuse a contract? Should

not some apparatus of responsibility be set up in our academic community to address this problem, and examine the implication of contracts with governments?

The independent academic and moral integrity of MIT needs clearer articulation than it has had. The circumstances of the present demand it.

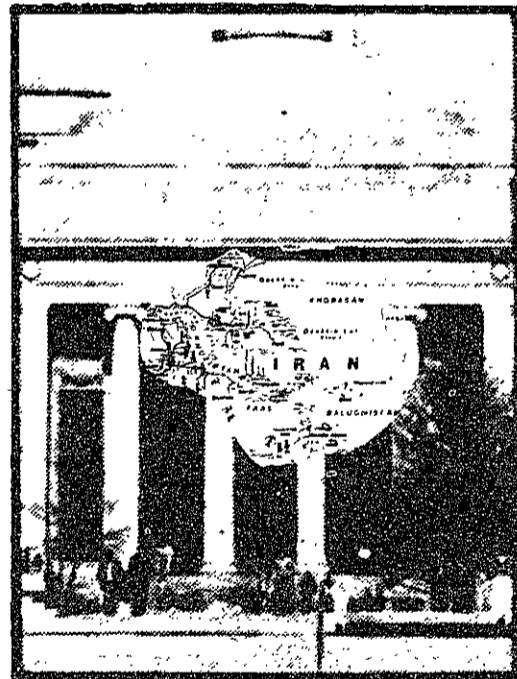
Rev. John Crocker, Jr.  
Rabbi Mel Gottlieb  
Fr. Robert Moran  
Steven Murphy  
Pastor Constance Parvey  
April 28, 1975

## Misquoted

To the Editor:

I would like to correct the reporting of my recent talk at MIT. Far from asserting that "it is unfeasible for Iran to use its growing nuclear capacity for weapons production," I pointed out that when Iran's first four projected nuclear reactors become operational — that is, those four reactors for which firm contracts have been signed, with France, and West Germany — Iran will be able to produce about a bomb a day if it should choose to do so. I also emphasized the many concurrent steps Iran was taking now to overcome her present lack of technically trained people so that when these reactors are operational (which I estimate to be in about 10 years), the skill-base requisite either for nuclear energy or nuclear weapons production will be available. I concluded that in my opinion Iran is keeping its options open, trying to acquire self-sufficiency in all steps of the fuel cycle so that if it chooses to pursue a nuclear weapons option in the 1980s, it will be in a position to do so, and that I feared it would so choose.

Anne Cahn  
April 28, 1975



## Bureaucracy

To the Editor:

I thought I might share with you one of the gems of bureaucratic trivia which MIT produces. The FAC [Freshman Advisory Council] recently sent all freshmen a Course Selection Card which we were meant to return with the appropriate box filled in.

The first box was for those who had decided what course they were in.

The second box was for those who had not yet decided what course they would be in.

The third box was for those who had not yet decided

whether or not they would decide which course they were in.

There was no box for those who were unsure of how to decide whether or not to decide what course they were in.

Don't let anyone tell you the FAC doesn't have a sense of humor.

Robert J. Feron '78

The Tech welcomes Letters to the Editor. Typed letters are preferred. Letters must be signed; names will be withheld upon request. Send letters to The Tech, W20-483.

# The Op-Ed Page

## Letters to The Tech

### More Comments on Food

(A copy of this letter was sent to The Tech - Editor.)

Dear Dr. Wiesner:

I would like to add my voice to those who have already expressed their concern over the Food Exhibit in Lobby 7. This exhibit typifies the blatant misuse of space and money which has become characteristic of many Lobby 7 exhibits.

First consider the safety aspects of the Food Exhibit. It interferes tremendously with traffic in the lobby - more so than previous exhibits. It is truly a hazard for people with all of their senses, so one can easily imagine what a danger it is for unsighted people. Let me list a few of the other hazardous aspects of the exhibit: wires all over the floor; high voltage apparatus, only one of which has even an inconspicuous sign alerting sighted passers-by to the danger; welding in the Lobby during construction of the apple; gasoline cans left there after the welding; slippery, rotten apples on the floor. I could list others as well, but I think the dangers are obvious.

The Institute has lowered temperatures and instituted other measures to save energy and money. This exhibit has wasted unconscionable amounts of both. Circuit breakers have been blown in the Dean's Office and in the Information Office, testi-

fying to the amounts of energy being consumed. I shudder to think how much this two week debacle is costing the Institute, and surely the money could be put to better use during the current inflation/recession.

All of the previous objections could apply to most of the major exhibits that have been in Lobby 7, but the Food Exhibit has one unique feature. While a tremendous number of people are starving in our country and in the entire world, MIT throws mushrooms on the Institute steps and allows apples to rot in the Lobby. This is particularly disturbing when the exhibit is supposed to be in honor of Food Day, which is designed to make us all aware of the plight of the starving, and to focus attention on means of alleviating this tragedy. I am thoroughly ashamed to think that MIT endorses this exhibit. Is this the image MIT wants to project to the world?

I think it is time that a committee including concerned students and employees have some say about what exhibits are put up in Lobby 7. These abuses of space, money, energy, and other valuable resources should not be allowed to continue.

Susan E. Walker  
News Office  
April 16, 1975

### Mideast Propaganda?

To the Editor:

Your article entitled "Mid East: Jews Respond" was the last straw. I am tired of listening to and reading one sided propaganda from people who just do it for the sake of propaganda.

I wonder if any person engaged in such actions has ever been actually involved in the Middle East, and its struggles. That includes Steve Feld with his mutilated truth about "moral considerations" and "geopolitical reason."

I think Americans should ask themselves about these moral considerations. I have lived long enough in America to know the basic moral standards Americans have, and I am sure that supporting a country that is occupying land that doesn't belong to it doesn't comply with these standards. Israel has been occupying Sinai and the Golan heights which belong to Egypt and Syria respectively, since 1967. It is also occupying the west bank of the Jordan river and the Gaza strip which with the present Israel used to constitute Palestine, before 1948.

Israel also refuses to discuss the Palestinian problem - the problem of the 3 million people it deprived of the very basic human right, having a home. Most Palestinians are now either living in refugee camps in Lebanon, Syria, and Jordan, or living under occupation in the West Bank, and the Gaza strip. This problem has been ignored by Israel for 27 years. It seems that certain "moral considerations" stand in the way of solving it!

Another unjustified claim is the one about Israel being the only democratic country in the Middle East, which is a plain lie. Although I haven't been to Israel, I certainly know what other political regimes in the Middle East are like. Supposing

that Israel is a democratic state (which it certainly isn't as far as the Arabs living under occupation there are concerned) I know for sure that it isn't the only one. I have seen my country (Egypt) go through two wars and, believe me, war is no spectator sport. I want peace, real peace, and I believe everybody living in the Middle East feels the same. I wish that double talk from people who have nothing at stake, would stop so that we can start the process of real peace.

What 27 years of hatred and mistrust have done will take time to undo. So the sooner we start the better.

Mostafa Ammar '78  
April 16, 1975

To the Editor:

Being an Egyptian student closely working with the Emergency Action Committee, I was extremely stunned at The Tech's referral of that committee as a Jewish organization just on the basis of its support for Israel. In fact a recent Harris Pool Survey published in the *New York Times Magazine* of April 6 indicated that 52 per cent of all Americans support Israel against 7 per cent support for the Arab governments.

Feld is working on a constructive approach to the Middle East problem, taking in mind the interest of the US as well as the peaceful existence of all Middle-eastern countries. I sympathize with him and his frustration in that he has consistently ignored the more extreme Jewish elements and has refused to permit the EAC to become another Israel Fund raising group while on the other hand he is denied the usual necessary funding from MIT because he is unjustly considered a biased group leader.

Name withheld upon request

### Pie Too Far?

To the Editor:

I feel some sort of reply is necessary concerning the literary assault unleashed by David Hoicka upon Professor Jack Baldwin (*The Tech* April 18). Hoicka accuses Professor Baldwin of a "tremendous lack of manners and sensitivity," claiming that he has made cutting remarks concerning "race, creed color, national origin, or intelligence level..." I believe such accusations are outrageous! Having failed to miss a Baldwin lecture this term, I cannot recall a single assault on anyone's race, color, or creed, and any such notion to the contrary is quite reprehensible. Indeed, Professor Baldwin has made almost daily comments concerning national origin, but is this a "lack of manners" or merely in the spirit of good, clean fun which usually pervades his lectures? The very mention of a researcher's national origin usually brings down a tremendous wave of cheers or boos from the students. Is this bad manners? A subtle Baldwin reply is usually quite clever, humorous, and a welcome (though brief) interlude into the daily monotony of academia.

What of other accusations into the conduct of Professor Baldwin? A comment was made concerning how much Professor Baldwin would enjoy a vacation from us (not how much he hates us!), but this followed a wild ovation by the students upon announcement of his temporary departure. Bad manners? An indictment of the administration usually follows the not un-

common failure of the blackboard system. As for criticizing his graduate students, I must wonder if Mr. Hoicka has any sense of humor whatsoever. Remarks such as those by Professor Baldwin are not blatant criticism, but a humorous comment on the nature of graduate students and graduate studies which is universally joked about. And although Professor Baldwin specifically did not call failing students "criminals" (he was criticized for this last year), I would think that such students who score fifty points below class average on a 120 point exam are guilty of simply not trying, as opposed to being snowed by Professor Baldwin's "condemnations" as suggested.

Professor Baldwin is in fact an outstanding lecturer. But just as important, he avoids the state atmosphere reminiscent of too many Institute courses, preferring instead to add the elements of humor and fun to his lectures. The enthusiasm and humorous atmosphere returned by the students is an indication of their approval. A banner unfurling in the middle of class was right in the spirit of such good natured fun, but a pie in the face is too much. Not only an ego was injured, but also a suit, a pair of glasses, the front of the lecture hall, and possibly the future pleasurable atmosphere of the class. Maybe the pie in the face was merely a joke, but it is quite obvious that this time the joke went too far.

David Olive '75  
April 20, 1975

### All the Blows That Fit?

To the Editor:

It is very astonishing to see how unwilling *The Tech* can be to write up articles on upcoming events of interest to the entire student body. Our fraternity is putting on our bi-annual FIJI Island Party (FIP) which is open to the entire MIT community at no cost to them. Social events of this caliber come few and far between at MIT and it is a shame that the only way to let the student body know of it is by paying for ads in "their" newspaper. I can understand *The Tech's* policy in not printing promotional articles, but when this party is completely financed by our fraternity with the aid of some Institute funding and living group donations, it is hardly fair to recognize it as such. We stand nothing to gain, instead we spend over \$1,500 of our own money.

At MIT, FIPs have been held every other year for the last 20 years. Two years ago, it was part of Kaleidoscope weekend, which I may add was the only decent Kaleidoscope weekend MIT was able to pull off. For those of you interested, it will be held on May 3, 1975 (Saturday), at Saisma Park, Fitchburg, Massachusetts. Admission, beer, punch and music are free. Buses will be chartered and tickets will be sold in the lobby of Building 10 at \$2.50 per couple. The charge is solely to cover the expense of chartering the buses, but you may provide your own transportation. If you are attending this year's event you might want to know that FIP is a costume party. Grass skirts, bathing suits, and various improvisations are acceptable.

All tickets, directions, and information, are available in the

lobby of Building 10, at the FIJI House, 28 The Fenway, Boston, or by calling 247-8048. Again, everyone in the MIT community is invited.

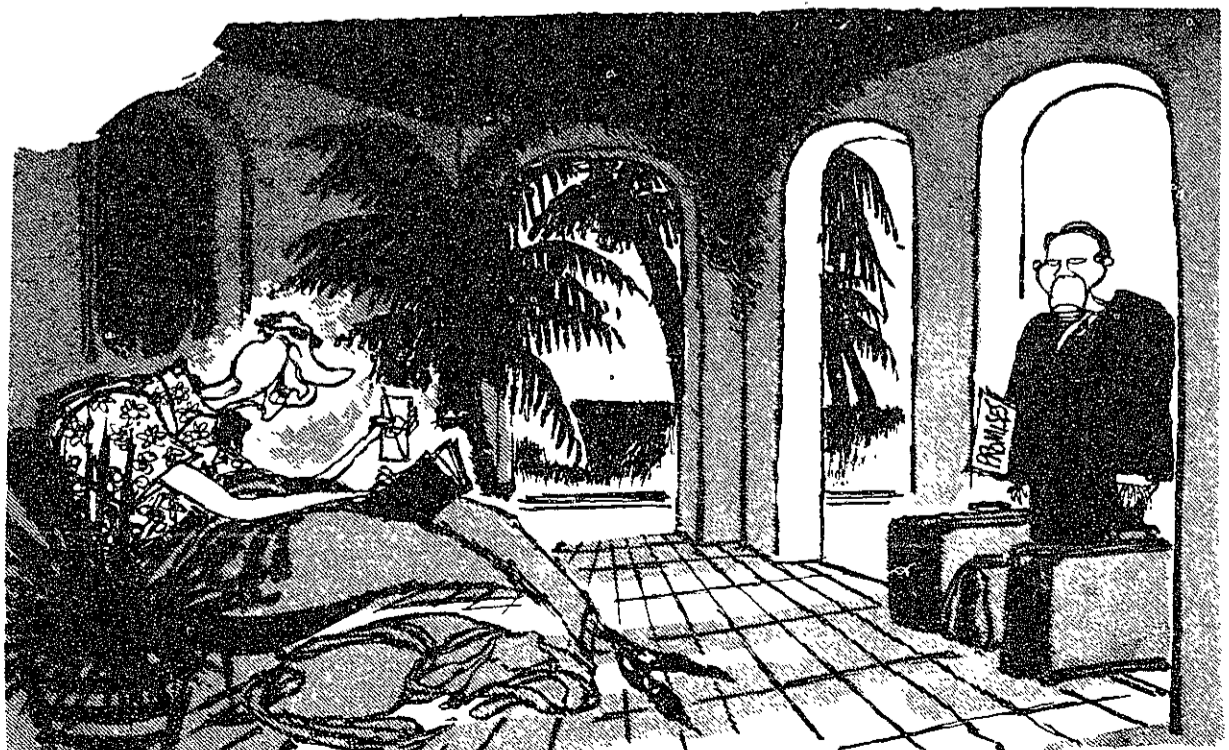
Ramon J. Vallejo '75  
April 27, 1975

(The Tech cannot possibly meet the demands of every group, on and off campus, that thinks the newspaper is their publicity organ. Therefore, it makes a policy of not promoting any group's activities. With only finite resources, the editors believe the needs of the community are better served with news rather than promotions. - Editor)

The Tech welcomes Letters to the Editor. Typed letters are preferred. Letters must be signed; names will be withheld upon request. Send letters to The Tech, W20-483.

*Mike Peters*

DAYTON DAILY NEWS 1975



"WELL IT'LL BE... PRESIDENT THEIU... PAT, LOOK WHO'S HERE... IT'S PRESIDENT THEIU... GEE, WHAT A SURPRISE, CAN YOU STAY FOR DINNER?... WHAT BRINGS YOU TO SOUTHERN CALIFORNIA?..."

## The Poet as Feminist

by Chris Sieber

*Changing Faces* — Betsy Sholl (Alice James Books; 72 pages; \$3.00)

Careless reading could miss Betsy Sholl's individual voice entirely. She is so easy to classify: genus American Contemporary Poet, species Feminist.

She shares her worldview with a generation of women for whom the trip into feminism was like the ordeal of a chameleon learning to live on a mirror. For years the chameleon has adopted the patterns of mother, home, and society, learning to distrust its own interior landscape. Suddenly lost in a directionless universe of self, it learns the cost of independent survival: the boundaries of self are a wound where the concealing skin has been cut away. For a while the chameleon hugs itself to itself, demanding congratulation for being alive and being sane after the surgery. Soon it begins to observe the outside world reflected in the mirror, and its personal pain is easily translated into political anger. For the poet, being a chameleon — one of Henry James' "twice-born" — is almost a certificate of significance. Transcripts of human survival — on an ice floe, on a raft, on a mirror — are *a priori* worth other people's time.

Ms. Sholl shares her style with generations of hoplites advancing behind the avant-garde. A conversational tone without the apparent exercise of a strict selective principle; verse that generally scans but is free enough to allow the musical phrase, as distinguished from the metrical foot, a certain autonomy; the absence of self-sufficient symbol that subdues all local figuration to its purpose. It is a style for poets, who make poetry out of a sense of limitations. There is no sense of role: no Tiresias, no *anima mundi*; an indifference to the histrionic claims that poetry makes on a culture when poetry is a major art.

There is a fear in these poems that words will fail is overburdened. Few chances are taken with imagery; there is a total lack of ornamental resonance. The infrequent attempts to shake up typography and syntax seem about as motivated as a rearrangement of canapes. Sholl sometimes retreats

beyond colloquial speech: declarative sentences stack up, each ending in a dead fall; contractions are fussily spelled out; the detachment of the language is complete. (Ironically — and it's a political irony — this voluntary deadening gives some of the poems added immediacy. When the reader picks up the documentary tone he involuntarily sits closer, waiting for news of thy atrocity.) Occasionally a fugitive lyricism breaks through. "Pantomime" and other poems dealing with the passage of time or love, will call up nostalgia for a past the reader can't even remember.

The atmosphere is one of suspended emotion. This detachment is epitomized by the many poems which are narrations of dreams: terror hangs over the images but does not penetrate them. Nevertheless, the dream poems contain some of Ms. Sholl's most vivid imagery, as if, in literature as well as mental life, the dream was a mechanism for liberating visions that would otherwise be censored. The recurrent use of dreams also provides the collection with a deep unity, a

psychic substratum on which the other works are built.

*I hear the woman tell the child  
you must learn to eat maggots.  
She is singing a song  
about the sky being clear  
and blue curving around them  
like the inside of an egg.  
I have the feeling they will crack  
it.*

*Changing Faces* is Betsy Sholl's first book. It is a good argument for a second book. What we have been given is a chronicle of the growth of a strong personality, a personality capable of producing strong poetry. For, as Walt Whitman once put it, "how can a sick man, or an obedient man, dare to write poetry?" That poetry will come, once the chameleon is off the mirror. Here and there it has already arrived:

*There are winds that could  
lift the roof off this building,  
and winds that could blow your  
name  
out of the universe.*

— from "Therapy"



photo by David Herwaldt

Betsy Sholl

## Scientific Pedaling

by Leonard Tower, Jr.

*Bicycling Economics: Ergonomics and Mechanics* — Frank Rowland Whitt and David Gordon Wilson (MIT Press; 247 pages; \$2.22)

*Bicycling Science* is a thorough serious study of the human-bicycle system as it is now, as well as a survey of how it developed, and where it could go.

The senior author, Frank Whitt, is an English chemical engineer whose avocation is bicycling. He has done extensive studies of the machine and the work others have done concerning it and written many technical articles in American and British bicycling magazines. Prof. Wilson of MIT's Department of Mechanical Engineering edited and enlarged Whitt's text.

The human side of the system is the first studied. Human power generation is examined by determining the total amount available. The efficiency of various methods of locomotion is examined concluding that the bicycle is the most efficient on hard level ground. Its disadvantages on other surfaces are pointed out.

The book then examines the machine and its operating environment, studying each of the sub-systems in detail.

Wind resistance results in the greatest loss of power in the bicycle as

it is currently designed. The side forces, caused by passing vehicles, is proven to be large and dangerous on superhighways, giving scientific backing to a law some cyclists feel arbitrary.

The superiority of pneumatic tires is vividly discovered by considering the rolling resistance of the wheels. Losses through friction in the transmission and gears are examined and found to be relatively small. New continuously variable gearing designs are shown to have promise after further development.

The rim brake is shown to have the best characteristics for dry weather braking. Wet weather braking is a problem in all designs, and needs further development. It is proved that braking is most effective on the front wheel due to a number of factors, including the distribution of weight between the wheels.

Whitt then shows that steering and balancing are not well understood. Further improvement in this area will probably be made with computer models based on experimental data, rather than through theory.

A look at possible improvements in design using modern materials shows that the established tubular steel frame is still superior when all factors are

considered.

In fact, that is shown true of the whole standard design. Though many improvements have been tried in the 80 years since the spoked-wheel, tubular-framed bike was invented, surprisingly little has changed.

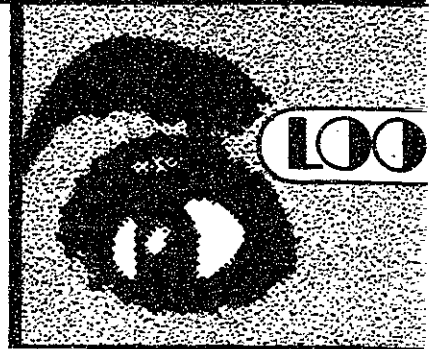
The study concludes with a look at other man-powered vehicles, including a pedal-powered lawn-mower, and an examination of where bicycling design and use could go in the future. Improvements in design to make the bicycle and acceptable all-weather vehicle are particularly discussed.

The development and history of bicycles is presented throughout the study. Pictures, tables, and graphs are well used, illustrating the points made, and greatly add to the text.

The book is technical in spots, but should present no problem to people with a year of college physics. For those without the background the equations can be skipped over without distracting from the flow of the text. Each chapter has a good bibliography making the book a good start on any research on the human-bicycle system.

If you have any interest at all in how you and your bicycle work to get you anywhere, this book should give you all you want to know in a few easy sittings.

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thomas j. spisak

*All My Yesterdays* — Edward G. Robinson, with Leonard Spigelgass (NALY Signet; \$1.95)

The autobiographies of stars are generally as plastic as the medium in which they work. To steal from Shakespeare, they are "full of sound and fury, signifying nothing." The reviewer is generally hard pressed to refrain from hurling the book across the room in boredom after fifty pages or so. *All My Yesterdays*, however, does not fit the common mold.

Edward G. Robinson was. There is probably nothing more to be said about him than that, he was. He begins the work by saying that it is not the autobiography of Edward G. Robinson, but, rather, that of Emmanuel Goldenberg. Instead of offering the Hollywood legend, Robinson presents the life of a multitasking man who lived as deeply and richly as possible. His style is as straightforward and unpretentious as the characters that he played. He is discrete when discretion is called for, but he is never evasive. He makes no lasting and eternal statements, but *All My Yesterdays* is a good evening's diversion.

*Common Sense II* — The People's Bicentennial Commission (Bantam Book; 106 pages; \$1.25)

Americans have a great predilection toward playing at history. This month, thousands of people assembled around Boston to re-enact, in one form or another, the start of the American Revolution. Some chose to mark the occasion with a pop happening, while others have opted for a giant birthday party. Neither of these groups, apparently have taken the opportunity to learn any lessons from the history at which they played.

The events re-enacted were no game. The men who stood waiting for the King's troops were sober, serious Yankee farmers. Few had been touched by the wild radicalism of the Boston mob, most were content as Englishmen. On that morning they saw themselves as defending their sacred rights as Englishmen against the unwarranted intrusions of a faceless Parliament. It is probable that two hundred years later the embattled farmers would not have been among the celebrants, but rather would have reflected upon the meaning of it all.

*Common Sense II* is a tract for pseudorevolutionaries. While the issues raised are vital and grave, PBC's presentation makes them trivial. Although it can be legitimately argued that the American people are oppressed by huge conglomerates, PBC's attempts to link them with a date on a calendar demeans the argument, turning it into one more piece of hucksterism. This country has an opportunity to deliberate on its past and its future, *Common Sense II* should be read as part of that deliberation.

ARTS

K!

## classical things Stephen Owades

The Guarneri String Quartet, one of the world's most famous and widely recorded quartets, gave a free concert in Kresge Auditorium on April 10 at 8 pm under the sponsorship of the William L. Abramowitz Lecture Series and the Department of Humanities. I presume (because of the Humanities Department involvement and the location) that this concert was intended for the benefit of the MIT community, but through bad planning and careless publicity releases it was announced throughout Boston in the newspapers and on radio. At the door, there was no attempt at restricting admission to members of the MIT community (though certain areas of the hall were reserved with fair success for invited guests of Mrs. Abramowitz). As a result, the hall was packed full with unfamiliar faces and many MIT students went home disappointed.

I was personally unable to hear the opening Mozart *C Major Quartet*, K 157, because of the crowding. When I finally did get in, I was frankly unhappy about the performance of Beethoven's *Opus 127 Quartet No. 12 in E flat Major*. Though the sound of the group was rich and full, only those lines which the players italicized were individually perceived. Quartet playing at its best is a discourse among four co-equal partners, not the homogenized, undercharacterized mush of this performance. Additionally, the intonation and tone quality of Arnold Steinhardt, the first violinist, were decidedly below expectation for a group on this technical level.

Mendelssohn's *Quartet in A minor* (after intermission) was more successful, since it demands less interpretive depth and benefits from the full "orchestral" sonority of the Guarneri. Even here, however, the brilliant trio seemed more a display of technical prowess than any sort of attempt to come to grips with the music.

From a group with the reputation and the ability of the Guarneri String Quartet, one expects a lot more than facile note-spinning.

Rufus Hallmark, a member of the MIT music faculty, will be the tenor soloist in the Boston Camerata's final concert of the season, to be presented at the Museum of Fine Arts Lecture Hall on Tuesday, May 6 at 7 pm and in Sanders Theatre on Saturday, May 10 at 8:30 pm.

The program, entitled *La Primavera*, will be a celebration of spring in English, French, and Flemish Renaissance music and poetry. Tickets are \$4 and \$2 for students (at Sanders only). *La Primavera* will be one of the programs featured on the Camerata's upcoming tour of France in June and July, which will culminate in a ten-day school for instruction in Medieval and Renaissance music in Cordes.



photo by Stephen Owades

John Oliver leads *King David*

## MIT Glee Club sings Honegger

by Stephen Owades

John Oliver directed the MIT Glee Club and Mount Holyoke Glee Club in *King David* of Arthur Honegger on Sunday afternoon, March 16, in Kresge. It was a well-paced and moving performance, with the vocal forces surprisingly well balanced (given the large numerical advantage enjoyed by the female contingent) and the playing of the small professional instrumental ensemble clear and precise.

A large measure of the credit must go to the narration of Jeffrey Warlick,

who timed each spoken interjection perfectly to avoid breaking the spell of the preceding music or, conversely, losing continuity. He never exceeded the boundaries of boredom or bathos, and his rich voice came across clearly through the amplification system.

The shortage of tenors in the Glee Club is beginning to make itself heard in a lack of blend in that section, but overall the choral singing was good—the diction was especially noteworthy. The three on-stage soloists, Sheila Barnes (soprano), Beverly Morgan (alto), and Richard Burke (tenor), sang

well, though not all of their words (which were not printed in the program) could be distinguished. Calliope Shenas was an intense and moving Witch of Endor, casting her spell from the choir loft above and to the left of the stage.

It is to be hoped that the Glee Club can attract more members for the future, which right now appears somewhat clouded because of insufficient interest from the community. Certainly, on the evidence of this challenging and superbly executed program, it deserves enthusiastic support.

## Boston Symphony season ends

by Stephen Owades

The last two weeks of the Boston Symphony Orchestra's 1974-75 season were a triumphant affirmation of Seiji Ozawa's talents as a conductor and as an orchestra builder. Never in the seven years that I have been regularly attending BSO concerts has there been so high a level of technical polish to go along with the gorgeous sound that has always been the orchestra's trademark. Today's Boston Symphony need not apologize to any other group in the world, including the much-vaunted Chicago Symphony (which is becoming increasingly sloppy).

Isaac Stern, soloist in the Beethoven *Violin Concerto* on April 17, 18, and 19, was quite another matter. On Friday afternoon, his intonation was dreadful and his interpretation was a caricature of "Romantic" fiddling. Coming from a young performer without Stern's automatic audience appeal, a performance like this would have been greeted icily at best. I was assured by friends in the orchestra that Thursday night had seen him in better form, and indeed Saturday night's broadcast was substantially better in tune. The remainder of that program, consisting of *La Valse* and several

short pieces by Ravel, was beautifully played and shaped. Ozawa, displaying a sensitive feeling for the underlying dance character, avoided the trivialization and vulgarization that this delicate music often suffers.

The final weekend's concerts (April 24, 25, and 26) brought soprano Susan Davenny Wyner, contralto Maureen Forrester, and the New England Conservatory Chorus together with the BSO for a stunning *Resurrection Symphony (Symphony No. 2)* of Mahler. Controlling the outsized forces with his characteristically expressive, yet economical, baton technique, Ozawa provided an interpretation that was powerful and direct, similar in many ways to Klemperer's monumental Angel recording of the work. (Bernstein's new version of the Mahler *Second* on Columbia is spectacular in a very different way, but it skirts the edge of disaster many times with almost unbearably slow tempi and tremendously exaggerated rubati.) Forrester's is the ideal voice for the hushed *Urlicht*—she is one of the few true contraltos singing today, and Mahler constantly demands the kind of weight in the lower register that she is superbly equipped to deliver. Susan Davenny Wyner's singing was every bit

as beautiful, which is saying quite a bit in such company. The New England Conservatory Chorus reinforced its reputation as one of Boston's finest choruses: the power and mature tone of the tenor section were especially impressive. For the first time in my experience, too, the subterranean B-flats in the opening choral passage were clearly audible.



The schedule for this summer's Tanglewood season of the BSO is already announced (see the *Sunday Globe* and *New York Times* arts pages), and many of this past season's highlights will be repeated in the idyllic Berkshire setting during July and August. Given the quality of playing which the orchestra has provided recently, it should be quite a summer.

# Fundraising art, not science

(Continued from page 3)  
goal (\$66 million) by more than \$20 million, but there were items that were left short."

The problems of deciding what should be included in campaign goals and what donors will probably give money for are subject to a great deal of study and research prior to the beginning of any campaign, Brock said. "The first step is always planning and research," he explained. "You have to see if your goals are reachable, if there are enough prospects interested and available for you to attempt the drive. And then you have to identify the prospects and the approach to take to them."

Goals set for a drive, therefore, are "always a compromise between what you want and what you think you can get," according to Nelson C. Lees, Director of Resource Planning. Research on MIT's goals took almost two years, resulting in "goals that are reachable, but are not going to be easy to reach," Lees said.

To help fund-raisers in their job of identifying prospects and setting goals, a number of important tools have been developed. Data on hundreds of drives have been compiled to allow "educated guesses" on component fund-raising decisions, Lees said.

Past data would indicate that about half of the donations received by MIT during the drive will be from private donors, Lees said, with corporate and foundation donors giving the rest. MIT has also broken down expected donations into three classes — "key" donations greater than \$250,000, which

are expected to make up \$150 million of the drive's goals; "leadership" donations between \$10,000 and \$250,000, which are hoped to total \$40 million; and "small" gifts less than \$10,000 which are expected to complete the \$225 million goal.

### Art, not science

Despite the growth of fundraising staffs and the increasing power of tools available to them, Brock maintains that fundraising is "an art — not at all a science." One part of the art is gauging the psychological effects of actions on potential donors.

This factor is important in one of the very first parts of a fund campaign — the announcement. While many colleges have staged large convocations or symposia to "showcase" their announcements, MIT chose to make public announcement at a New York press conference —

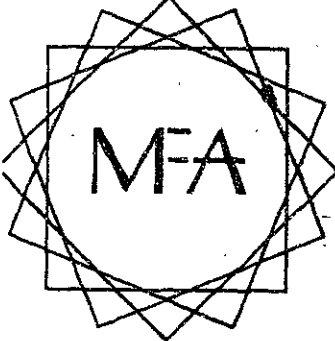
"an extremely low-key announcement," according to Lee. "A big event exudes an aura of wealth that works against what you want to do — getting money," Lees said. "MIT doesn't have that much money to spend on making a splashy announcement."

Similar considerations will govern MIT's considerations in staging future events during the drive, Brock said. "A campaign attunes you to the necessity of large, attention-getting events," he explained, adding that during past drives MIT has sponsored magazine articles and newspaper supplements about the Institute.

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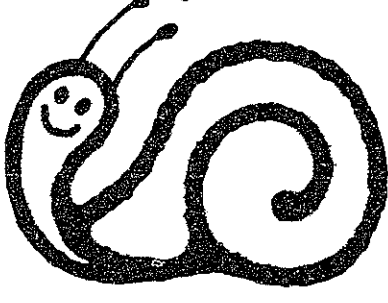
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THIS SPACE CONTINUED BY THE PUBLISHER

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You don't have to have a lot of money to get to Europe on Pan Am.

Not if you take advantage of our Youth Fares.

And to take advantage of our Budget Fares you need even less money.

## Youth Fares

If you're between the ages of 12 and 21, and you want to roam around Europe for a few days or a few months (but not more than a year), pick your departure date and give us your name.

Your seat may only be reserved 5 days or less before the departure date.

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Mike Garcia

Dr. Warren Point, Chairman of COUHES

## Rules sought for rights of humans in research

(Continued from page 1) is also basic to social science research, Weiner emphasized, but mechanisms must be developed for protection of privacy and evaluation of psychological risks.

Legal risks are involved if a social scientist studies a segment of the population engaged in illegal activities. For example, Weiner said, studies of drug use may reveal that people are stealing to support drug addiction. If data from such studies is subpoenaed, Weiner explained, the subjects may be prosecuted for actions they have revealed unless care has been taken to preserve their anonymity.

Another type of danger exists in the case of experiments which may be traumatic for the subjects. Weiner cited psychology studies done by Stanley Milgram at Yale University in the early 1960's concerning the response of individuals to authority. Milgram asked subjects to administer electrical shocks to others in a simulated learning experiment.

The shocks were not authentic; the real purpose of the study was to see if subjects would refuse to give the shocks. Milgram found that individuals in the experiment would follow instructions, continuing to give shocks of increasing intensity in

spite of pleas from the "victim," an actor hired for the study.

Weiner explained that the conflict between conscience and authority experienced by the subject was quite strong, and that it may be psychologically damaging for someone to learn "that he will do terrible things to others." Requests to repeat the Milgram experiment at MIT have been denied under COUHES principles, Weiner said, because the results are already known and the risk to the subject is great.

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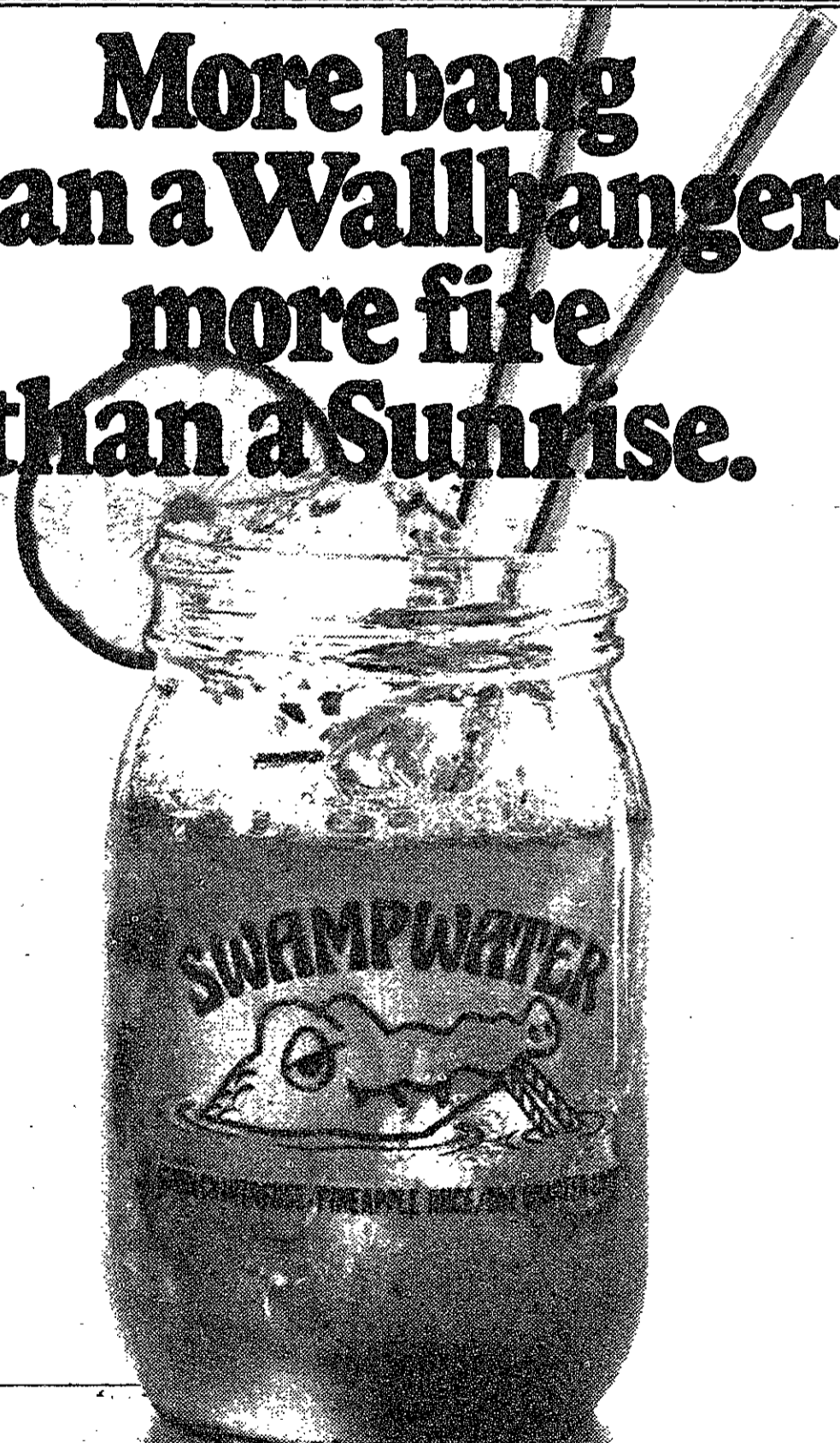
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**NEW STAR TREK MOVIE IN '76**

**News Analysis**

# Protest: a return to radical politics?

By Thomas J. Spisak

Mass political action has been dead at MIT for three years. Since the McGovern fiasco in 1972, no issue has been rousing enough to stir the sentiments of the student body. Radicalism has gathered dust while the Institute has stumbled through the routine of classes and quizzes, labs and problem sets.

Mass politics returned to MIT last Friday. The issue of training nuclear engineers for Iran moved two hundred people to stage a sit-in in the Department of Nuclear Engineering Headquarters in Building 24. Few of the demonstrators characterized themselves as political radicals, and for most of them it was the first time they had joined in such an action.

There were various reasons why people opposed the agreement with Iran. Some, including most of the organizers of the protest, were mostly concerned with the political ramifications involved. As one of the organizers said, "Iran to us, is just a small part of a very large system," adding "What we're trying to do is to chip away pieces of that system."

Another student admitted that he was "scared of the idea

that the Shah can get nuclear weaponry. "I think that any country in the Middle East having nuclear weaponry would be very much a destabilizing influence in the area." Students also felt that the Persian Gulf oil easily could cause a confrontation in the Middle East.

The majority of the protesters seemed primarily concerned with the way in which the Institute had handled the deal and the subsequent protest. One student said he was at the sit-in because he wanted "some response, but so far no one is saying anything." He said later that he felt the demonstration was worthwhile because "the Committee (CATNES) had tried several different ways of asking questions without getting any answers."

Many of the students felt that they had been lied to by MIT. One student, when asked if the deal had changed his perceptions of MIT, said he doubted that he would "ever have much respect for this administration again."

The protesters seemed more disillusioned with MIT than angry about the deal. The lack of stridency was surprising to one who took part in the anti-war demonstrations of the early

seventies. There seemed to be more idealism than was apparent the last time there was any mass political action on this campus. One student said that he was demonstrating because he was

"firmly against training nuclear engineers for a nation whose politics go contrary to everything we have been taught to believe about this country."

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## Voronel links release to work of MIT group

(Continued from page 1)

account the opinions of these scientists. If MIT scientists are persistent in their demands for constant connection without interference, I'm sure Soviet authorities will have only one choice - to release others."

His wife Nina added that "It is hard for you to imagine how hard it is for someone who has been cut off from the rest of the world." She said, "You are thrown out of society and your friends are brave to remain your friends."

The committee that was originally formed to secure the Voronels' emigration is now working on getting Professors Mark Azbel, Alexander Lerner, and Benjamin Levich out of the Soviet Union (see *The Tech*, February 14, 1975.)

Although Azbel has "strong chances" according to Voronel,

Dr. Ira A. Michaels, an organizer of the MIT committee, said, "they are screwing Azbel by keeping him away from his home and family." Michaels added that "there is nothing legal in what is being done (by the KGB), and there is nothing he can do about it."

According to Michaels, "Levich has a pretty good chance of getting out." His family has been "promised visas by the end of 1975," but "at the same time they let Levich out, they start harassing others."

Voronel noted that "there is no real motive to keep them" in the Soviet Union, "but to make fear to other people."

Now a professor at Tel Aviv University, Dr. Voronel is in the United States for a speaking tour sponsored by the Committee of Concerned Scientists and the National Conference on Soviet Jewry.

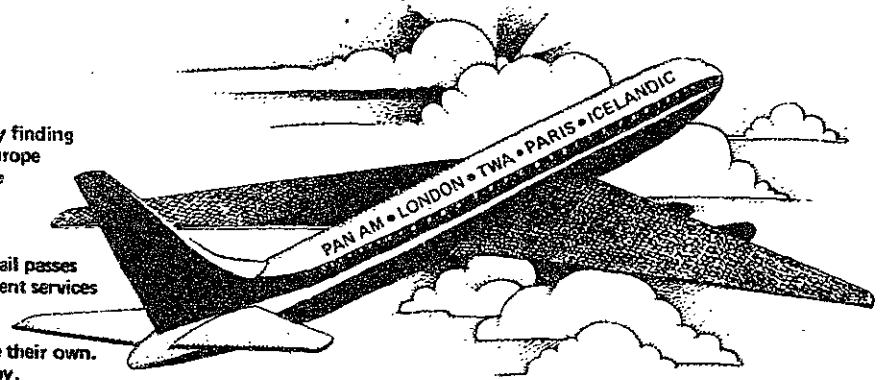
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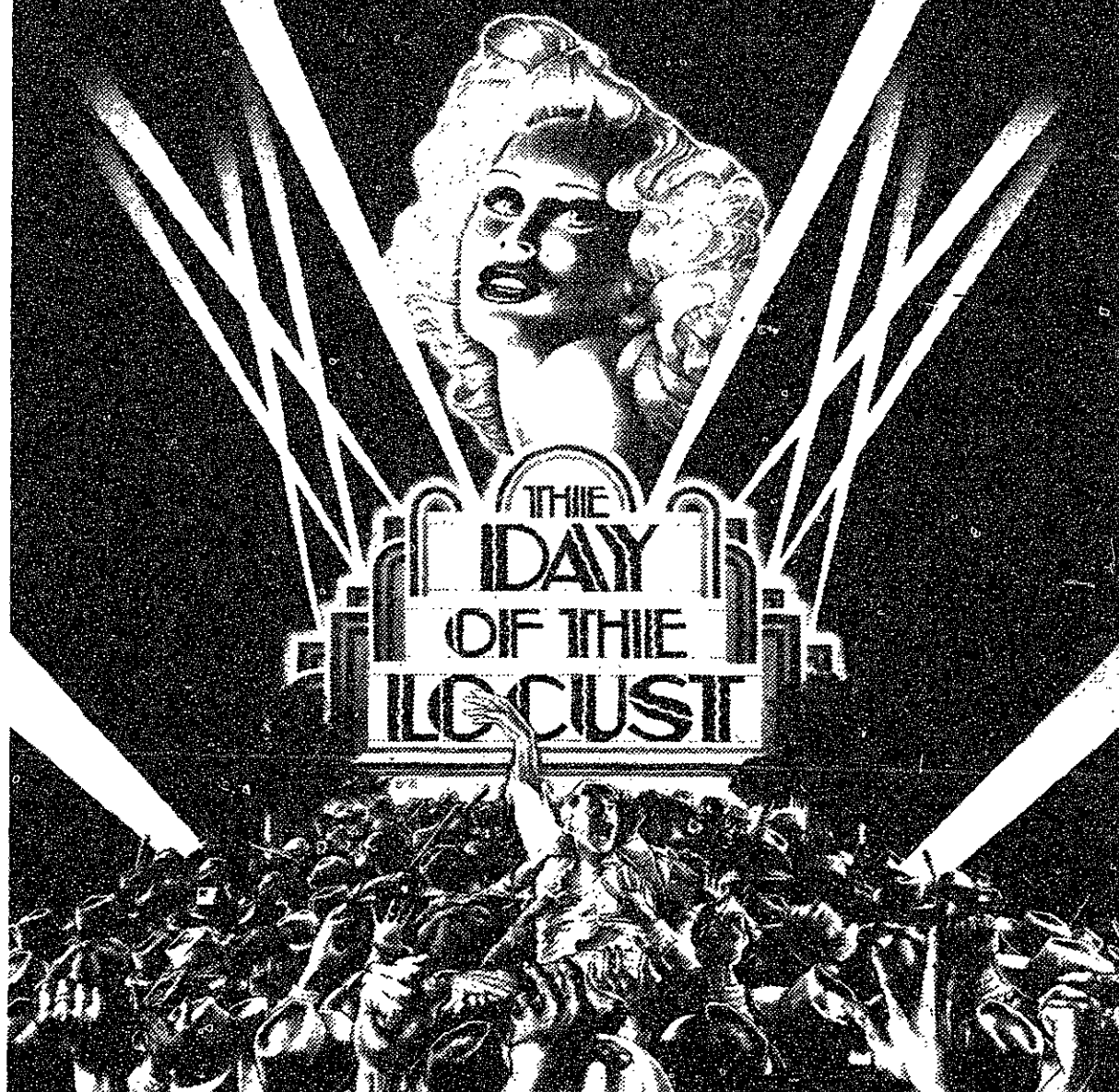
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# Sports

## W net team ninth in tourney

By Caren Penso

On Friday, April 18th, four members of MIT's women's tennis team participated in the 33rd annual USTA Middlestates Women's Intercollegiate Tennis Championships at Princeton University, marking the first time the MIT team had been invited to a major tournament. Invitations to the prestigious tournament are extended based on team records and the women earned theirs by running off a nine-match winning streak prior to the opening of their spring season.

Participating in the tournament were the number one and

two singles players, Chris Vogdes '78 and Sue Nelson '77, and the number one doubles team of Patti Schettig '76 and Linda Young '76. Vogdes and Nelson were eliminated in the first round but Schettig and Young defeated a doubles team from Villanova 6-2, 6-3 to advance to the second round. There they met the tournament's third seed from Lock Haven College and lost. To determine fifth and sixth places, a feed-in consolation round was used. Vogdes lost in her first consolation match while Nelson won her first match and lost her second. Schettig and Young

proved to be more successful, however. The partnership, which had won its first eleven matches before falling to Clark University this spring, took on Mercer County Community College Saturday, and squeaked by 5-7, 6-4, 6-4. Schettig and Young then faced Goucher College and trounced this team 6-0, 6-2, in a match both Patti and Linda consider "the best we've played."

That afternoon they were tripped up in their bid for fifth place by a strong University of Connecticut team 6-1, 6-2, and settled for ninth place in a field of 32 teams.

## Beavers halve twinbill after 14-0 Lowell loss

(Continued from page 12)

second game with a smart bunting attack that caught the Coast Guard infield flatfooted. The Beavers laid down a total of four sacrifice bunts and three bunt singles to move runners up and score in clutch situations. The turning point of the game came early in the second inning, as Mike Royal '76 squeezed home Mike Dziekan '76 with a perfect bunt that rolled for a base hit, and the Beavers never trailed after that.

Jeff Felton '78 delivered two RBI with his three singles and Vince Maconi '76 broke out of a slump in style with three hits in three at-bats plus a sacrifice. One of his hits was a bunt single and another the game-winner, a bases-loaded triple to deep left field in the sixth inning.

David Yauch '75 recorded his second victory of the season, with Mike Royal shuttling in from right field in the third and seventh innings to bail him out of jams. Yauch's victory was the 14th of his career, an MIT record (Mike Royal has 13). Yauch stroked two doubles off the fence as the Beavers keel-hauled Coast Guard with a 15-hit bombardment to prevail, 11-6.

The Beavers close out their home season with games Tuesday against Greater Boston League rival Northeastern and Thursday against Suffolk (both games 4pm). Saturday at 2pm MIT travels to Waltham to seek revenge against Brandeis.

## IM softball standings:

A1-league	W	L	C5-league	W	L	C7-league	W	L
Baker Baboons*	4	0	Baker Cubscouts	3	0	Conner 3	2	0
ESL	3	1	Hydros's	2	1	MacGregor C	2	0
Metallurgy	3	1	Physical Chemistry	2	1	Burton 1	1	1
Chemistry	2	2	Conner 5 Too	1	2	Project MAC	1	1
Ashdown Roaches	0	4	First East Etc.	1	2	MacGregor A	0	2
SPE	0	4	EC Fourth East	0	3	PSK	0	2
A2-league	W	L	C6-league	W	L	C8-league	W	L
LCA 'A'	4	0	Ashdown-Ger.-Fr.	2	0	MacGregor J	2	0
DU	3	1	Burton 5 Smokers 'C'	1	1	EC 5 W	1	1
Ritter's Hitters	3	1	Lupines	1	1	MacGregor B	1	1
Aero-Astro Ringers	2	2	MacGregor H	1	1	PKA	1	1
MacGregor I	0	4	TDC 'C'	1	1	Animals	0	2
PDT	0	4	Russian/Conner 2	0	2			
								*Clinched division title
A3-league	W	L						
TC*	4	0						
SAE 'A'	3	1						
Sloan	3	1						
Baker Orangutans	2	2						
Economics	0	4						
Jack Florey 'A'	0	4						
B1-league	W	L						
AEPI 'A'	4	0						
Transportation	3	0						
Burton 5 Smokers 'B'	2	1						
DTD 'B'	1	3						
Fiji	1	3						
LCA 'B'	0	4						
B2-league	W	L						
PBE*	4	0						
PLP	3	1						
NRSA	2	2						
BTB	1	2						
Conner 5	1	3						
Softball Busters	0	3						
B3-league	W	L						
ZBT 'A'	3	0						
Chemical Engineering	2	1						
Plumbers	2	1						
SC	1	2						
Westgate CosMcMuffins	1	2						
Math	0	3						
B4-league	W	L						
TDC 'B'	3	0						
PKT, Not 259	2	1						
BTPi	1	2						
SAE 'B'	0	3						
B5-league	W	L						
Nuclear Engineering	2	0						
Mech. Eng. 'B'	1	1						
No. 6 Club	1	1						
Burton 4	0	2						
C1-league	W	L						
EC Second West	3	1						
Third East	3	1						
DTD 'C'	2	2						
Epsilon Theta	2	2						
Pecknold's Prodigies	2	2						
Baker Third	0	4						
C2-league	W	L						
EC Second East	4	0						
Baker Dregs	2	2						
Student House	2	2						
Nutrition & Food	2	2						
TX "Red Jocks"	2	2						
Senior House	0	4						
C3-league	W	L						
PMD-TEP	4	0						
Baker Mixed Veg.	3	1						
Chi Phi	2	2						
TX "White Jocks"	2	2						
Sissies	1	3						
Jack Florey 'C'	0	4						
C4-league	W	L						
Feduce's Army	3	0						
'CSC'	3	0						
ATO	2	1						
AFROTC	1	2						
Electricians	0	3						
MacGregor E	0	3						

## Sporting Notices

This year's IM Sailing Regatta will be held on Sunday, May 4, at the MIT Sailing Pavilion. Reporting time will be 10:00am. Team rosters are due in the Managers' Office (W32-121) by 5:30pm Thursday.

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# Sports

## Lacrosse rallies to top Trinity after 11-9 loss to UNH Thursday

By Glenn Brownstein

In a wild see-saw battle featuring five lead changes and five ties, the MIT varsity lacrosse team picked up its third win of the season, edging Trinity, 10-9.

The winning goal was scored at 6:45 of the fourth period by attackman Bob Laurenson '75, who had four in the game, running his team-leading total to 18.

Trinity cut MIT's lead to 10-9 on a goal by Dave Max, but could not score again, despite getting excellent chances in front of MIT's net.

Lady Luck played a large role in the Engineer victory as well. With about six minutes left, Glenn Pinkerton '75 tripped a

Trinity player in front of the net to prevent him from getting a point-blank shot at the goal, but no penalty was called.

About three minutes later, a missed pass to the defense resulted in the ball rolling in front of the Engineer goal, which was empty at the time, but no Trinity player could reach the ball quickly enough, and the ball was cleared out of the area. With two minutes remaining in the game, a Trinity shot appeared to have cleanly beaten MIT goalie Jeff Singer '77, but hit the post and rolled away.

Finally, with 25 seconds left, Trinity got a close-in shot on net, but Singer made his 24th

save of the game to preserve the victory.

Laurenson, Bob Connor '75 (with three goals), Evan Schwartz '75, Roger Renshaw '77, and Roy Greenwald '75 (one apiece) scored for MIT. The improved MIT defense played a large part in the victory, as defensemen Rick Bye '75, John Boylan '75, Gerry Tourgee '76, and Craig Johnston '77 had fine games to keep Trinity from winning the contest.

On Thursday, MIT lost an 8-3 halftime lead and fell to New England's fifth-ranked team, the University of New Hampshire, 11-9. The Engineers totally outplayed UNH in the first half, but could not stop the Wildcats' surge in the second thirty minutes. Epstein scored twice, and seven other MIT players added one goal each.

Tomorrow, MIT faces nationally-ranked Harvard (17th) at Briggs Field in a 4:00 start. The Engineers then journey to play Springfield Friday night, and conclude their season against UMass at home May 10.

## Injury-plagued trackmen fall to Worcester Poly

By Dave Dobos

Despite a masterful juggling of available talent and some gutsy running by sophomore Rich Okine '77, the injury-plagued MIT track team dropped a dual meet to WPI here last Saturday 89-65 in a contest that was much closer than the margin would indicate.

Injuries that sidelined sprinters Paul Kuzmenko '77 and Jim Banks '76 and reduced the capabilities of senior co-captain Gary Wilkes forced coach Gordon Kelly to make some last minute adjustments in the regular MIT event entries that proved to be quite successful, even in a losing cause.

Okine was super, capturing the 100, 220, and high hurdles for 15 points. Wilkes moved to the 440 because a muscle strain kept him from effectively running a shorter distance, and turned in a sizzling 51.2 for first. Chris Perley '77, the only MIT cinderman in the intermediate hurdles due to Okine's switch, carved out both a personal best 58.8 and his first MIT win.

However, neither the 440 nor the mile relay teams could muster a victory. At full strength, the relays were stronger than their WPI counterparts, but both had to compete without two of their regulars. The two relay losses accounted for 20 of the 24 point Engineer deficit to WPI.

For the second time in four days, Greg Hunter '76 scored in five events. He posted seconds in the high hurdles and shot put and thirds in the pole vault, discus, and javelin.

In the three-mile, sophomore distance ace Frank Richardson recorded a 14:26.4 for his third straight victory. He has now captured mile, two-mile, and three-mile firsts in his three races this season. Other winners for MIT included John Lundberg '77 in the hammer throw and high jumper Reid von Borstel '78.

Thursday afternoon, MIT hosts Coast Guard in the team's last dual meet of the season. The Engineers compete in the Greater Bostons this weekend.

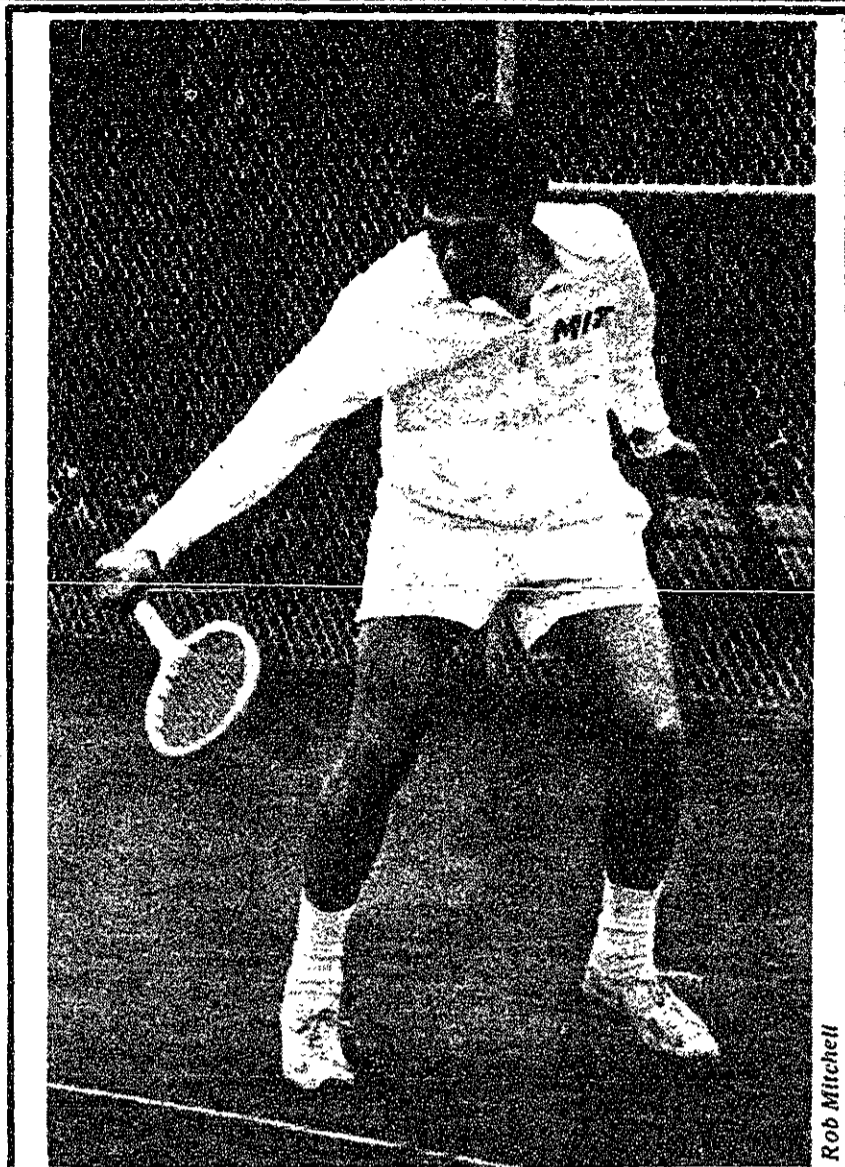
## LTI tops b-ball; CG splits

By Lawrence D. David

The MIT baseball team's record dipped below .500 again with a 14-0 loss to Lowell Tech on Friday and a Saturday doubleheader split with Coast Guard, the Academy taking the first game, 5-4, before being overhauled by the Beavers in the nightcap, 11-6.

Lowell Tech southpaw Bill Moloney fanned 13 Beavers and allowed only two hits in eight innings of work en route to a 14-0 romp at Lowell. The Lowell nine put together eleven walks and ten hits in the game, and scored ten runs in the seventh and eighth innings to turn what could have been a close game into a rout.

Down 5-1 in the first game of



Jim Austin '75 hits a backhand against Trinity's John Lynham in Saturday's varsity match with the Eagles. Austin's 3-6, 6-4, 6-4 win at number one singles (his seventh in ten matches this year) led MIT to a 7-2 win over the Hartford school and raised the Engineers' record to 6-4.

Rob Mitchell

Saturday's doubleheader with Coast Guard, the Beavers rallied for three runs in the fifth, they key blow a two-run single by catcher Dan Sundberg '77, but the bases were left loaded to end the inning, and Coast Guard made its 5-4 margin stick. The

Bears scored what proved to be the winning run in the third with the help of three errors by the Beaver infield.

Angered by their numerous mistakes in the first game, the Beavers struck back in the

(Please turn to page 11)

### IM Softball results:

A-league	
Baker Baboons	11
Metallurgy	8
ESL	9
Theta Chi	11
Lambda Chi Alpha	14
Sloan	10
Ritter's Hitters	2
Aero-Astro	1
SAE 'A'	14
Sigma Phi Epsilon	4
Chemistry	5
Ashdown Roaches	8
Economics	3
Phi Delta Theta	7
Jack Florey 'A'	8
Delta Upsilon	0
MacGregor I (forfeit)	0
Baker Orangutans	2
B-league	
Burton Third Bombers	9
Phi Kappa Theta	7
Theta Delta Chi 'B'	11
Burton 5 Smokers 'B'	1
Pi Lambda Phi	12
Alpha Epsilon Pi 'A'	10
Phi Beta Epsilon	14
Transportation	16
NRSA	1
Zeta Beta Tau 'A'	15
Sigma Chi	14
Nuclear Engineering	11
Number Six Club	1
Chemical Engineering	12
NRSA	9
SAE 'B'	2
Beta Theta Pi	10
LCA 'B' (forfeit)	0
Conner 5 (protested)	11
FIJI	9
Softball Busters	2
Delta Tau Delta 'B'	4
Softball Busters (forfeit)	0
Plumbers	2
Math	7
Mechanical Engineering	9
Nurton 4 (forfeit)	0
WestgateCosmcmuffins	4
C-league	
Baker Dregs	19
Chinese Students Club	14
Physical Chemistry	25
First East	1
Ashdown/German/French	15
Baker Cubscouts	14
Feduce's Army	20
Theta Delta Chi 'C'	1
EC 'FW'	14
Conner 3	5
Project Mac	11
Pi Kappa Alpha	1
MacGregor 'C'	7
Lupines	20
AFROTC	12
Baker Mixed Vegetables	22
PMD-TEP	12
AEPi Gliders	14
MacGregor 'J'	17
TX 'Red Jocks'	17
TX 'White Jocks'	21
Delta Kappa Epsilon	12
2E	18
Zeta Beta Tau 'B'	16
Pecknold's Prodigies	11
EC '2W'	22
Phi Kappa Sigma	8
Delta Tau Delta 'C'	13
Senior House	13
Alpha Tau Omega	4
EC '4E'	8
Conner 5 Too (forfeit)	0
MacGregor H Turkeys	8
Hydro's	12
MacGregor 'E'	12
Burton 5 Smokers (forfeit)	0
Pi Kappa Alpha	6
Phi Sigma Kappa	2
MacGregor 'A'	8
Animals (forfeit)	0
Burton 1	6
RussianHouse	3
Electricians	5
Sissies	12
Chi Phi	5
Hillel Bronx Bombers	4
MacGregor 'B'	8
Student House	11
Jack Florey 'C'	2
Slow Death	9
Nutrition and Food	7
ME 3 Owe 7 Tee Sea	8
Baker Third	2
Third East	5
Kappa Sigma	5
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Members of MIT's table tennis team (from left, Geoff Anato-Mensh '77, Bok Seng Tan '76, Bill Ladd G, Joseph Lee G, Philip Giangarra '76, Dominic Ho G, Ken Weng G, Chuck Chan G) pose with their Ivy-MIT championship trophy won April 5 at MIT.

## Table tennis takes Ivy crown

By Philip Giangarra

(Philip Giangarra '76 is a member of the MIT table tennis team.)

On Saturday, April 5, before a large crowd in the T-Club Lounge, MIT played Columbia for the Ivy-MIT League table tennis championship, taking the title with a 5-3 'B' team win and a 5-4 'A' team victory. MIT needed a sweep of both divisions to take the match, and the Engineer team held on under pressure.

MIT's 'B' team opened the eight-hour match by stopping Columbia, 5-3, winning some extremely close games on net or edge shots. 'B' team starters were Ken Weng G, Geoffrey Anato-Mensh '77, and Dominic Ho G, with alternates Bob Keener '75, Bok Seng Tan '76, and Philip Giangarra '76.

The 'A' team match followed, and MIT and Columbia split the first four best-of-three matches. Bill Ladd G then came from a 10-0 deficit in the second game of his match to win 21-18 and give

MIT a 3-2 lead in the team score. MIT lost its next two matches, however, to give the Lions a 4-3 lead and put them one match away from the championship.

Chuck Chan G evened the match with an exciting 21-19, 19-21, 21-13 win over Columbia's Peter Wai to set up the deciding contest between Joseph Lee G and Bill Ma.

All three games were close, with Lee finally winning the match and the championship for the Engineers with two game victories after having lost the first game 17-21.

Based on the growing interest in table tennis on campus, the athletic department is considering setting up a PE table tennis class on a week-night. He will be in charge of running the class with help from other team members. Further information will soon be available from the athletic department.

Tom Klimowicz