

WMBR will cut back air hours

By Burt S. Kaliski

MIT's radio station WMBR (88.1 MHz) will reduce programming from 20 hours to 14 hours daily starting this Friday, said Robert Connolly, station manager.

The reason for the reduction in air time "is not financial at all," said General Manager Richard B. Feldman '84. The station is worried about its equipment and must "give it a rest."

WMBR's master control room has a temperature of 90 degrees during the broadcasts, Feldman said. "The equipment can not handle it" twenty hours a day.

Two tape decks are malfunctioning, Connolly said, and one must be returned to the factory for repair. WMBR is also experiencing trouble with its antenna located on the roof of Eastgate.

The station has "no reliable" technical staff, commented Connolly.

"Money rules the world," Connolly noted. WMBR needs approximately \$150,000 to upgrade equipment, he said. The station has collected \$7000 in five weeks of fundraising. "Our goal is to replace everything" and the fundraising has been "pretty good,"

he added. The station has collected \$6500 from hourly on-the-air appeals.

The station will request additional funds from foundations supporting educational radio, Feldman said last month.

The \$150,000 figure is "not unrealistic," Connolly claimed.

Many shows that presently run for three hours will be reduced to two hours, Connolly said. The station will probably operate from 10 a.m. to shortly past midnight.

The radio show "Nite Owl" will return to its "traditional form" as a student-produced program Friday, Connolly said. There will be all-request "free form" radio from 6 p.m. to 12:30 a.m.

WMBR went off the air Feb. 14 after technical staff members resigned, since the Federal Communications Commission requires all stations of WMBR's size to have a technical staff to maintain a log of transmitter readings. The station resumed broadcasting Feb. 21.

The Federal Communications Commission requires the station to operate at least 12 hours daily, Connolly said.

Nuclear test ban discussed

By Gary Drliek

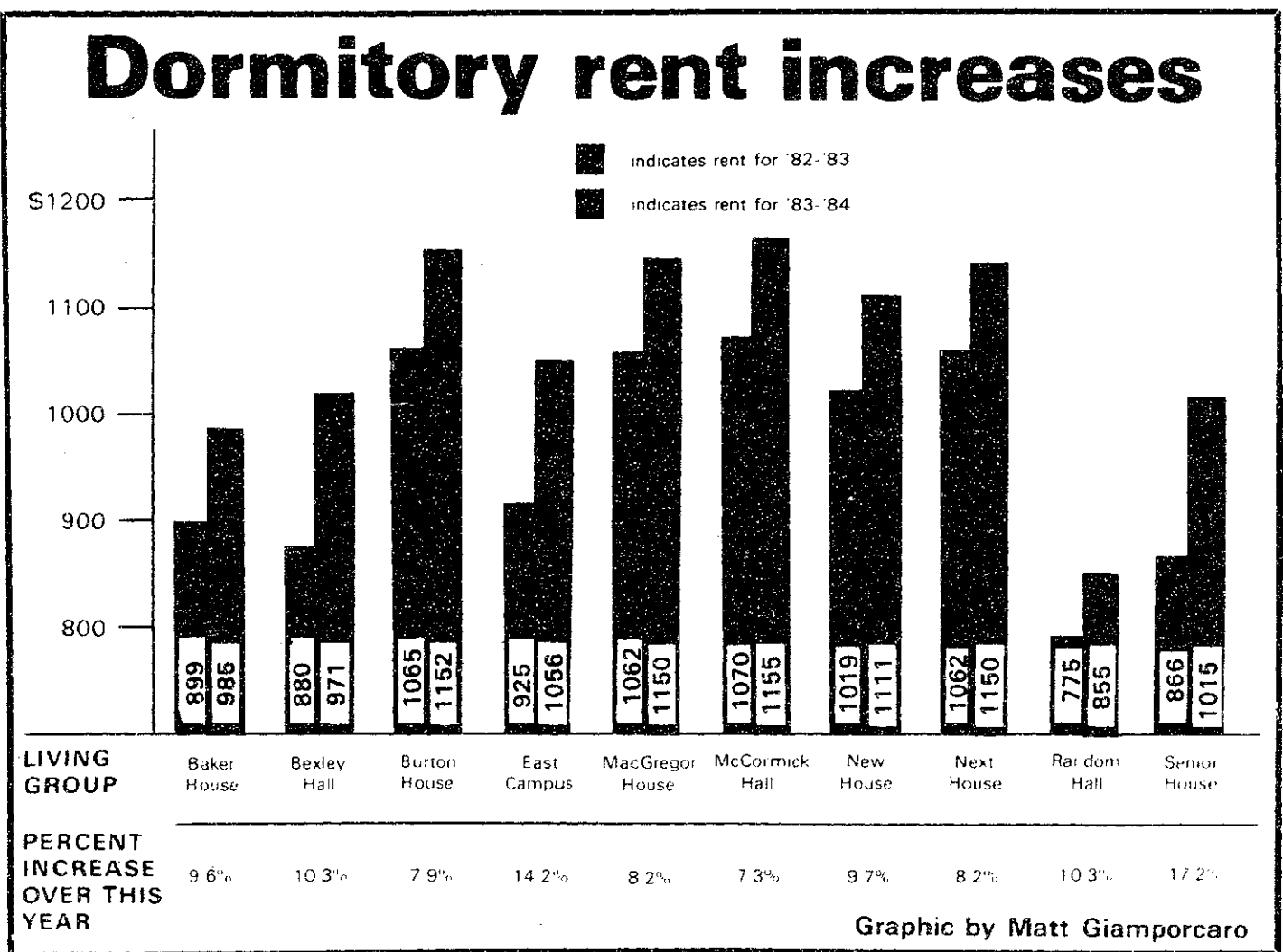
"[The Reagan] administration is not interested in arms control. It's allergic to arms control," said US Rep. Edward J. Markey, D-Mass, at a conference on nuclear weapons testing held in Kresge Auditorium March 19 and sponsored by the Physicians for Social Responsibility.

"The naïveté in this country is not in the grass roots but in the White House," Markey continued.

The arms race could have ended in the late 1940's if the United

States had shared the design of the atomic bomb with the Soviet Union, claimed Dr. Betty G. Lall, US representative to the United Nations Group of Experts on the Interrelationship Between Disarmament and International Security.

The proposed Comprehensive Test Ban Treaty (CTB) would stop nuclear tests of any size, Lall said. "The situation is ripe" for such a treaty, she continued, and the US and the Soviet Union could reach an agreement on this issue "in two weeks if they want-



Four dorm rents planned

By Al Yen

Undergraduate dormitory rent will increase an average of \$195.00 — 9.9 percent — for the 1983-84 academic year, according

to a memorandum by William R. Dickson '56, senior vice president for operations.

"This rent increase has two components: First, the increase which is necessary to meet budgeted operating expenses; and second, an increase in debt service to pay for the cost of constructing kitchens in East Campus and Senior House," stated Dickson's letter.

The rate hike also includes an adjustment toward establishing only four sets of dormitory rents as opposed to the present system in which each dormitory pays a different rent. "What we're striving for in three years is a four room rate setup," said George E. Hartwell, associate director of housing. The system, according to Hartwell, would aid accounting, planning, and budgeting.

A flat rate for all undergrad-

uate housing was considered in the past, Hartwell said, but "it is not fair for the rates of the new dormitories to be the same as those of the older dormitories."

The residents of the newer houses — McCormick Hall, Burton-Conner House, MacGregor House, and 500 Memorial Drive — will pay the highest rates per term. The New West Campus Houses make up the second room rate grouping.

The third group consists of the older dormitories — East Campus, Baker House, Bexley Hall, and Senior House — while the lowest room rate amount will be paid by the residents of Random Hall.

The rent figures at which the four groups will eventually settle is not known, Hartwell said, but he hopes the rent increases over the next three years will be small.

Deputy NASA chief speaks

By Ron Norman

"My guess is that if I came back in a few years, there would be a few people in the audience who had flown [on the space shuttle]," Dr. Hans M. Mark '54, deputy administrator of the National Aeronautics and Space Administration (NASA), speculated at a lecture last night.

"Many many people will fly [on the space shuttle] in the next few decades," Mark told the audience at the lecture sponsored by Students for Exploration and Development of Space. By 1986 NASA expects the space shuttle to fly 24 times per year and by the early 1990's, 40 flights per year are expected.

Mark outlined the development of the space shuttle program, the present plans of NASA and the future of NASA's space program. Mark also identified the reasons for going into space: national security, business and exploration.

"Operations in space are crucial... to world peace and security," Mark said. He cited surveillance and arms monitoring as two very important fields which are space oriented. Verification of arms treaties is impossible without space installations, he claimed.

Communications satellites are some of the best investments available today, Mark said, and computer connections will soon exceed television and telephone links in importance. Satellite investments will return 900 percent profit over the next ten years, Mark said, and large businesses will be able to increase their efficiency by using satellites.

Mark feels the space telescope will be the "first permanent facility in space... It will lead to the creation of a permanent installation in space." NASA will field a space station in 1988 or 1989, he thinks.

Space stations may be more economical than shuttle launches if six to ten permanent installa-

Rent increase funds employee benefits

By Diana ben-Aaron

MIT's employee benefit program will soon include graduate students employed as research assistants and teaching assistants, according to John Currie '57, director of finance.

Part of next year's 9.9 percent increase in undergraduate housing rent — 2.3 percent — will help fund the benefit program, according to George Hartwell, associate director of housing.

Graduate and married student rents and dining hall food prices will also rise to help pay for the plan, Hartwell emphasized. "The costs will be spread throughout the system," he said.

The program, beginning in summer, will provide tuition scholarships to employed graduate students while simultaneously reducing their salaries, Currie said. Graduate teaching and research assistants are presently being paid higher salaries from which tuition is then deducted.

The net pay to graduate assistants will not change, Currie added.

The benefit program will, however, free research funds presently used to pay research assistants and also free instructional funds

now paid to teaching assistants, Currie said.

"Our competition... such as Stanford... has looked as if its research costs less" than the Institute's, Currie noted. The new budget will make it possible for MIT to compete more successfully for research grants from the government and other sources.

The new system of paying graduates will make hiring graduate research assistants cheaper for the professors than hiring postdoctoral researchers. The system proves MIT's commitment to education, Currie claimed. "We are not just a research institution. We are here to educate graduate students... and undergraduate students."

MIT now pays 25.2 cents into a benefit fund for each dollar of salary it pays its employees. The new system will raise MIT's contribution to 33.9 cents. "The government says that we must [do this for] all salaries or not at all," said Currie.

The Institute will start contributing to the benefit fund July 1, Currie said. Student wages earned in the Undergraduate Research Opportunities Program will not be included, he added.



Tech photo by Omar S. Valerio

Dr. Hans M. Mark '54 speaking at Students for the Exploration and Development of Space conference Monday night.

(Please turn to page 2)

Panel debates ban on nuclear testing

(Continued from page 1)

mongering" nor ignoring the issue, but is concerned about arms control, he said.

The reliability of the black boxes that seismically monitor nuclear explosions is questionable, according to Snyder. The boxes might, if the bomb is small enough, confuse a nuclear detonation for an earthquake, he said. Thus, he asserted, the Soviets would be tempted to cheat on a test ban treaty.

The Reagan administration has "moral and legal obligations" to ratify the CTB, claimed Lawrence Weiler, former member of the US Arms Control and Disarmament Agency. "Is the executive branch above the law?" he asked.

The CTB will not solve all American-Soviet arms problems, according to Michael Nacht, associate professor of Public Policy at Harvard University's Kennedy School of Government. There is no guarantee nations would not "cheat" on the treaty, he noted. The US should "proceed with caution" in ratifying the CTB, he advised.

"Very few Americans use their democracy... Voting should be compulsory," said Dr. Helen Caldicott, national president of Physicians for Social Responsibility. Since "nothing moves a politician more than his own political career," people have tremendous power to influence their leaders to pass the test ban treaty, she noted.

Caldicott, a native of Australia, was especially concerned with the high level of radiation in her country caused by France's nuclear testing in the Pacific during the 1960's. Babies and young children were exposed to milk contaminated by the testing. After nine months of lecturing, she said 75 percent of the Australian people opposed France's testing. She attributed her success to her "use of democracy."

The same procedure, Caldicott

continued, could be used to make Americans aware of the dangers of continued nuclear testing. The US and the USSR would then be forced not only to ratify the CTB but to also to disarm, Caldicott said. Disarmament "should set an example for all other countries and move toward a saner world."

Congress first debated nuclear testing in 1946, Lall said. Both the US and the Soviet Union, however, continued nuclear testing and the US exploded the first hydrogen superbomb in 1954. Opponents were unsuccessful at stopping the tests, even though American and Russian scientists held a conference in Geneva during 1958 to discuss the prohibition of such testing.

The Limited Test Ban Treaty, ratified by both nations in 1963 during the Kennedy administration, prohibited all open air nuclear tests.

The commitment toward eliminating all nuclear tests has varied with the different American administrations, Lall noted. Former President Richard M. Nixon signed the Threshold Test Ban Treaty which restricted explosions to 150 kilotons, but Reagan has made "no effort at all" to curtail weapons testing, Lall said.

The House of Representatives is considering a resolution demanding the US and the USSR meet and negotiate an immediate, mutual cessation of the testing, building and deployment of nuclear arms, said Markey, co-sponsor of the resolution.

There is enough support in the House to pass the resolution after Easter break, Markey said, although opponents of the freeze were able to postpone the final vote March 16.



MIT Shotokan Karate Club practices in duPont Gymnasium.

Tech photo by Francesco Floris

Colleges follow draft regs.

By Sam Cable

Colleges in the Boston area have taken different positions on the Solomon Amendment, which denies federal financial aid to draft non-registrants.

"We shall not provide financial aid, either federal or Boston University, to those who have not registered unless we are under legal instruction to do otherwise," according to a March 10 statement by Boston University President John Silber.

"We are not going to replace lost money, but we will not withhold funds," said Paul Combe, director of financial aid at Boston College. "Until the regulations are in place, we are making no move."

"Reaction has been muted" at Boston College, Combe said, although a student group traveled to Washington D.C. to lobby against the amendment. "There are strong feelings in pockets of campus," he added.

Tufts University is "middle ground. We are not in a position to replace aid," said Bill Eastwood, associate director of financial aid. "Philosophically

the [Tufts] administration does not think we should."

"We can not afford [to replace lost aid] without taking away from other students," Eastwood said. A Tufts University student political action committee discussed the regulations at a meeting of the school's student senate, he added.

"We are going to obey the law... that is all I can say," said Charles Devlin, dean of financial aid at Northeastern University.

"We do not have funds to allow students to make a decision to offset the title IV funds."

No student groups have protested the regulations at the university, Devlin added. "There can't be more than five [non-registrants at Northeastern] anyway," he said. "It is not much of a problem... but it is very expensive to implement."

Neither MIT nor Harvard has made a final decision on the issue yet.

Shuttle aids science

(Continued from page 1)

tions are in place, Mark said. The next step would be the construction of a moon base, he added.

Biological and medical research and development will be increasingly important, Mark said, citing the electrophoresis process of separating organic molecules as an important step in this development. This process has already been used on each of the five space shuttle flights so

far, Mark said. "I think we will find other ways of making money."

"To me, the third and most important reason for going into space is exploration and new knowledge," Mark said. The space telescope is very important to furthering the development of physics and cosmology, Mark added. The telescope will permit the study of quasars and black holes, and "will give an enormous boost to the search for extra terrestrial life."

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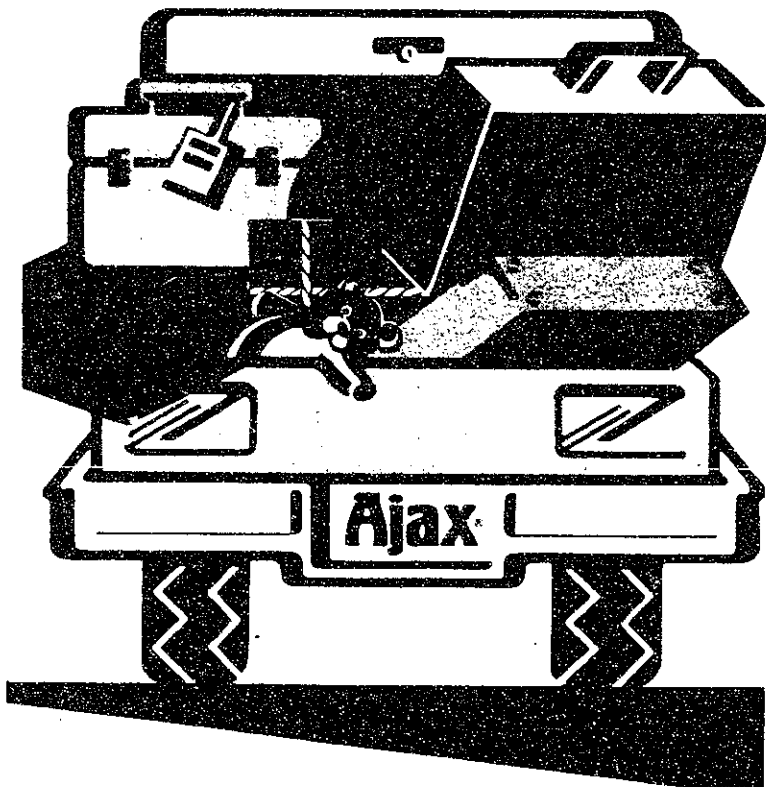
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news roundup

World

Andropov calls Reagan a liar — Soviet leader Yuri V. Andropov Sunday accused President Reagan of launching a "runaway race" in the development of offensive and defensive nuclear weapons. Reagan called for a comprehensive antiballistic missile system during his speech Wednesday. Reagan told a "deliberate lie" by saying the Soviet Union had broken its unilateral freeze on the deployment of medium-range nuclear weapons in Europe, Andropov said.

Palestinian schoolgirls poisoned — Two hundred and thirty-three Palestinian schoolgirls were hospitalized after five incidents of mass poisoning at secondary schools in the Israeli occupied West Bank. The curtains of classrooms were sprayed with chemicals whose fumes caused the poisonings, according to Israeli authorities. Dr. Yitzhak Seveg, chief Israeli medical officer in the West Bank, blamed the Palestinian Liberation Organization for the incident, while Palestinian authorities in Jerusalem accused Israeli authorities.

Salvadoran Government opposes dialogue with rebels — The Provisional President of El Salvador, Alvaro Magaña, refuses to enter dialogue with the rebels, contending it "is not going to solve anything." The government set presidential elections for December 1984 and invited the rebels to participate. A member of the guerrillas' executive committee said there is "complete" agreement not to enter the elections until the government begins to negotiate a political settlement of the civil war. Otherwise, the rebels will "carry the fight to the end," he said.

Nation

White mob forces Washington and Mondale to leave church — An angry crowd of about 150 white demonstrators forced black Congressman Harold Washington, Democratic candidate for mayor of Chicago, and former Vice President Walter F. Mondale to leave a Palm Sunday church service. The crowd swarmed the steps of the St. Pascal Catholic Church in the northwestern part of Chicago, booing loudly and chanting "Epton, Epton" in support of Republican candidate Bernard E. Epton. "Mondale, why are you supporting Washington? All you want is a black vote. You don't want us whites," yelled Judy Hertsgaard. Washington called the incident the most ugly encounter during his candidacy.

Local

Black voters start drive in Boston — The Roxbury, Dorchester and Mattapan branches of Massachusetts Fair Share began a voter registration drive aimed at registering 5000 blacks by next fall. "We felt there's a lot of strength and power in our neighborhoods and its has to be awakened," said Margaret Morrison, president of Roxbury and Dorchester Fair Share. Only 41 percent of eligible black voters are registered, compared to 68.5 percent of all eligible Bostonians.

Weather

Windy and chilly today — Today will be windy and chilly with temperatures reaching into the high 40's and dropping tonight into the low 30's. Wednesday will be mostly sunny with temperatures near 50 degrees.

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UA News

Well, I never heard of such a thing. My son, the UA News Editor came home from that school of his for spring break and I nearly died. Skinny as a pipe cleaner he was, sneezing and coughing, and holes in his socks. Well it's been a week and I've done my best to put him back together. He's almost eaten us out of house and home, although I don't know where he found the time to eat sleeping till noon every day. At least he's wearing decent clothing now. I'm doing his UA News this week to give him a chance to find a job.

I don't know, but you MIT students certainly have a lot of meetings. I think it's just wonderful the opportunities you have. Take this one for example:

They tell me that there will be a **General Assembly Meeting** this Thursday March 31st at 7:30pm in room 66-110. I told my son that even though it's his youngest brother's birthday he can go. So you be sure to go too. They'll be installing all the new officers that you voted for, voting for GA reps to the Finance Board and lots of other exciting things. After the meeting they'll be having a little get-together with all the committee heads and refreshments. This'll be in the UA Office room 401 of the Student Center. You can go along and chat with folks and get to know each other.

Do you know what bothers me most about sending my son to a place like MIT? It's not that he doesn't eat right or sleep enough or even that he goes around dressed like a slob. It's the money. Now I figure if we're spending so much money on his education it had better be worth it.

That's why I'm all in favor of what this bunch at **SCEP** is doing. This Wednesday March 30th they're having a meeting in room 400 of the student center to discuss New Projects, Advising, and Computer Science Education at MIT. I'm sure those new projects will be good. My son doesn't need advising, I give him all the advice he needs. "Go into computers" I tell him, "they're the coming thing!" I just wish he'd listen to me once or twice. Anyway just go to the SCEP meeting.

Here's something you probably didn't know. The **TCA** is having a big open meeting this week to talk about **HoToGAMIT**, the **Freshman Picture Book**, and a new **Activities Handbook**. The meeting will be at 7pm on this Wednesday March 30th in the TCA Office, room 450 of the Student Center. I remember when my son brought his Freshman picture book home. All those good looking young people, and look at them now, they're practically grown up. You kids don't know how lucky you are. Just remember those are the best years of your life. You may not believe me now, but wait until you're my age with kids like you turning your hair gray. Now look, you've gotten me off track.

The **Finance Board** is having hearings for new members on April 2nd and April 5th. If you'd like to be on Finboard stop by the UA Office and pick up an application form from Rita, the UA accountant. If you have any questions call Charlie Brown at 5-9449, Ray Samuel at 5-9646, or Kirsii Allison at 5-8756. They're all lovely young people who will be glad to help you. Now don't forget to schedule a time for your hearing when you schedule your appointment. The deadline for applications is Friday April 1st. Those people on Finboard really do need your help. If you can help them make the best use of your money then for Heaven's sake fill out an application.

I never had the chance to go to MIT myself, but if I did I would have been in the **Association of Women Students**. You know this week the AWS is having elections to choose their new President, Vice-President, Treasurer, and Secretary. This will happen after their **Above Board** discussion of Medical and Psychiatric issues for women students. It's on Tuesday, April 5th in room 447 of the Student Center. Above Board starts at 7:15pm and the elections start at 9pm with the nominations closing at 9:15.

Now, I know it's not even April yet, but people are already planning for **R/O week** in the fall. I know when my poor son left for MIT, it made me feel better that there would be people here to help him. Now you can be one of those people who help during R/O week. All you have to do is leave a message for Lillian Chiang at the UASO (7-103) or call x3-6771. Just remember what I always told my children — "Do unto others as you'd have them do unto you or your father will make you wish you had!"

Now, if you could use a break from all your schoolwork and joining committees and stuff, I've got the perfect idea for you. Go see **Whither Thou Ghost**, it's an original musical comedy produced by MIT's very own Musical Theatre Guild. I really enjoy all the singing and dancing. I like the jokes too, but do you think I can remember a single one to tell someone later? Not on your life. Anyway you can see **Whither Thou Ghost** at 8pm on April 1st, 2nd, 8th or 9th, or 7pm on April 7th. Tickets are only \$5.00 (even cheaper for you lucky MIT students, \$3.00) and let me tell you that's a darn sight less expensive than some show you'll see downtown.

So there you are. I've told you lot's of things you can do. You just see that you pay attention. I don't do this for the good of my health. I do it for yours. That's right. You need a break from all those numbers and equations. Lord knows how you understand them in the first place.

Opinion

Editorial

Changing the UA

The Undergraduate Association General Assembly will witness the installation of president-elect Mike Witt and vice president-elect Inge Gedo at its regular meeting this Thursday and likely begin to consider the restructuring of undergraduate student government at MIT.

Change must be effected thoughtfully. Experience with the present Undergraduate Association constitution — enacted in 1969 — clearly demonstrates the difficulty of institutional inertia: It takes a long time to recognize basic problems, and a longer time to do something about them. Changes made this year can provide future MIT students with the means to support their activities effectively and to represent their interests fairly, or can further constrict their ability to conduct an equitable, democratic form of self-government.

The most significant procedural issue the General Assembly must decide is ratification of a new constitution. Witt proposes to make sweeping changes — effectively creating a new constitution — by General Assembly amendments to present documents. The General Assembly must not, however, allow expedience to supersede democratic legitimacy. Any new constitution must be ratified by a vote of the entire membership of the Undergraduate Association.

The new student government should be based firmly upon the principle of representative democracy. It is time to recognize the reasonability and responsibility of the student body and allow it to directly determine the priorities and policies of that government. A popularly elected representative body should control the collective resources of the undergraduates.

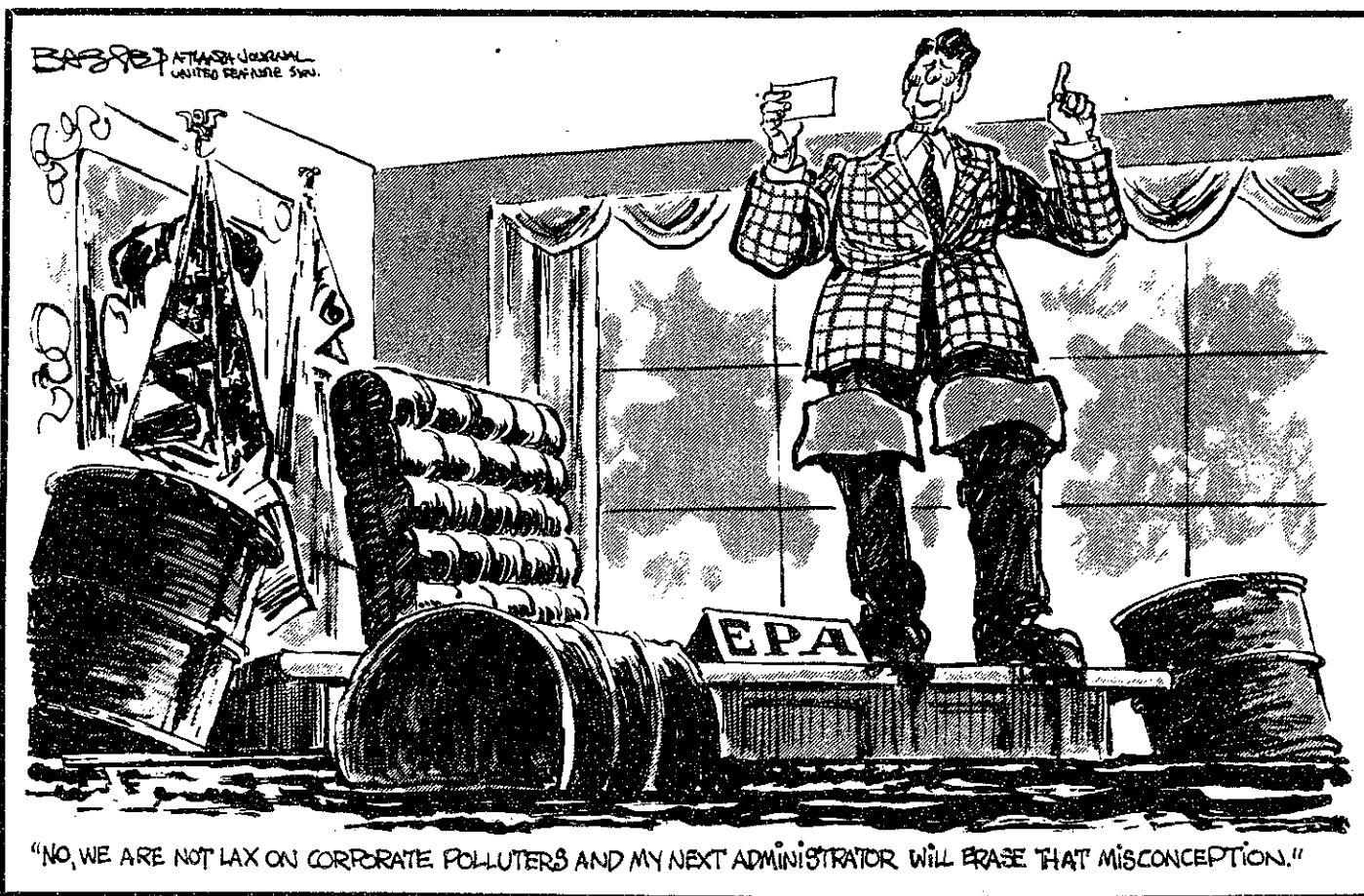
The quasi-independent Finance Board, Association of Student Activities, Nominations Committee, and Student Committee on Educational Policy should be abolished. Their functions are properly handled within a representative legislative body.

The student government and activities budget must be completely independent of the Office of the Dean for Student Affairs. The students' legislature should be empowered to levy a student activities fee and to distribute the proceeds among student groups. It should hold sole authority for recognizing student activities and assigning them the resources — office and bulletin board space, for example — the Undergraduate Association holds in trust for all its members. It should select the students who will represent the Undergraduate Association on Institute and faculty committees and it should articulate the undergraduates' positions on educational policy and other matters of concern.

Other current student government functions — for which expertise is an essential quality and decisions of policy are not central — would be better executed by more specialized organizations. Such organizations, however, must remain under the control of the undergraduates through their elected representatives. These should be reconstituted as executive departments, open in membership to all interested students, but headed by legislatively confirmed appointees of the Undergraduate Association president. The Student Information Processing Board would be properly classified as such an executive department.

Campus social activities and use of the Student Center should also be coordinated by an executive department. It is ridiculous to limit the activities of the present Student Center Committee to a particular corner of the campus. A Student Center governing board that also provided its expertise and resources to the broader range of campus social activities currently handled by the Social Council would better serve the students of MIT. General policies for the use of the Student Center should be determined only by the legislative body, however.

Only under such a structure can the undergraduate students of MIT enjoy a truly representative and effective student government. It remains for the members of the Undergraduate Association to determine the form their government is to take; they must not be excluded from that determination, either by a process designed for expedience or one designed merely to ratify the ideas of the new administration.



Guest Column/Stuart C. Atlow

The ten worst offices at MIT

We, as a nation, love rankings. Starting around October, we are deluged with lists ranking the ten best and worst whatever. Just recently in fact, MIT did very well in ratings of graduate school departments. To break with tradition, I now present, in the middle of the year, the Ten Worst Offices at MIT. I had but one criterion for this highest of honors. Any office with which it is consistently a pain in the elbow to deal (you know what I mean by elbow), qualifies. Simple. Remarkably, only three offices were sufficiently obnoxious to merit placement on the ten worst list. These are the Student Financial Aid Office, the Bursar's Student Accounts Office, and the Cashiers Office.

Everyone has his favorite MIT office to hate. Many would nominate the Undergraduate Chemistry Office. Fran Brister has already been awarded the Big Screw, however, while these three offices have never received such accolades. Let the record indicate that based on accumulated points, any one of these bumbling bureaucracies easily merits that great left-handed aluminum wood screw.

As a digression, let me point out that these three have one thing in common: All deal in money. (Only when buying a big screw does the Undergraduate Chemistry Office handle money, so it doesn't qualify this way. Sorry, Fran). Far be it from me to suggest that handling these sums of money, or, in the case of the financial aid office, having control over how other people spend their money, has tainted these aspiring MBAs. Neverthe-

less, money is power, and power corrupts . . .

What, you are no doubt asking, could anyone, let alone these three visions from the nightmares of Franz Kafka have done to earn the ire of my otherwise phlegmatic self? I have, over the past three years, in the manner of most students at this Institute, had many dealings with each of these offices. Alas and alack, I have never had enjoyable business with any one of these three; at best, my feelings were ambivalent.

1. The Bursar's Student Accounts Office

It was just about this time last year when I received an innocent looking envelope containing a letter notifying me I was to be dematriculated later in the week if I failed to pay the Institute the several thousands of dollars I then owed it. This I would have gladly done, had I not already paid my bill. Thus, I trudged from Next House (that's 500 Memorial Drive to the administrators) to Building E19 to practice my righteous indignation, bearing with me my cancelled tuition check. I asked the receptionist if I could speak with Mrs. C—. Imagine my chagrin when I was told Mrs. C— had left for vacation after issuing the dematriculation letters. "Poor Mrs. C—," said I, for I am painfully aware that Mrs. C— works terribly hard at fouling up people's records, and deserves her rest. But I digress. Mrs. S— would gladly see me, and after all, an S— is better than no C—. Mrs. S— was not able to figure out why Mrs. C— wanted to dematriculate me.

Since Mrs. C— is Mrs. S—'s partner in crime, Mrs. S— was happy to place the blame on The Computer. Thus is proven, once again, the maxim that no computer yet made is more intelligent than its programmer. I'd also like to congratulate the folks in the Artificial Intelligence Laboratory who developed a computer which goes to the post office and mails letters.

2. The Student Financial Aid Office

Once upon a time I received financial aid. During this time, I received a bill from the Institute which read:

Previous Amount Due	\$00.00
Scholarship Cr.	\$50.00
Total Amount Due	\$50.00

"What sort of scholarship is this," I wondered, "for which one has to pay?" Nor was I aware of the Stuart C. Atlow '83 scholarship fund which I was establishing on the installment plan. So, I made a pilgrimage to the bursar. This time, I got to speak with Mrs. C—. "I am sorry," she told me, "but this error originates in the financial aid office." Have you ever noticed that the Student Financial Aid Office and the Bursar's Student Accounts Office are strategically placed as far apart as possible without locating one in Tibet? I hiked to the financial aid office, where one of the twelve receptionists directed me to a chair, where I could await my "counselor." And await I did, for half an hour, for my "counselor" to direct me to an associate financial aid flunky. This flunky was seated at a desk located along a wall with several filing (Please turn to page 5)

The Tech

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Opinion

The MIT ten worst office list

(Continued from page 4)

cabinets nearby. She offered me a chair — one designed to sit in while filing in the bottom drawer. Picture the scene, dear reader: she at her desk in a regular chair, while I sat on a chair designed so I could easily reach the floor. This is intimidating enough, but among us Jews sitting on a low stool or chair is a sign of mourning. Eventually, we were able to clear up the problem; it seems someone hit the minus sign instead of the plus when entering my account into the selfsame computer which mails dematriculation letters. When all this was done (before making the required hegira back to the bursar's office), I asked the flunky who had designed the techniques of intimidation used in this garden of delight. She, understanding neither the question, nor, I suspect, the concept of sarcasm, responded, "What intimidation?"

3. The Cashier's Office

This establishment is good for only two things: cashing checks and getting paid. Any Friday, there is a line from the cashier to the ends of infinity. On this line stand hordes of people waiting to get paid. Why is this line so long? One would think the cashier would have many people doling out checks on payday. Not so. Only two, and often as few as one, deliver pay checks; while the rest of the staff sit idly behind their windows, or chat on the telephone. Once you have your check, you cannot cash it here, for MIT does not honor its own checks. So, you must stand in front of another window to cash your own check. Beware, however, for you will be asked to show your MIT identification, and, during the summer, if you are working here, you will not have the proper sticker. On the back of your ID card will be a spring semester sticker. Unfortunately,

the cashier will only accept current stickers. Try as you might to convince them to cash your check, they will not. On second thought, maybe this office isn't even good for getting paid or cashing checks.

There, in a nutshell, are my three choices for the ten worst offices at MIT. Certain banking establishments in Kendall Square might also qualify, but they are not associated with the Institute. By the way, the financial aid office is now accepting applications for the Stuart C. Atlow '83 Installment Plan Scholarship.

Course 14
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feedback

Financial aid director clarifies aid story

To the Editor:

I write to correct a few factual errors in Thomas Huang's article, "Corporate Aid Won't Match Rise in Tuition" [March 15].

Leonard V. Gallagher '54
Director
Student Financial Aid Office

1. MIT will spend about \$4 million of its operating funds for financial aid this year.

2. Corporations, foundations and individuals combined gave MIT approximately \$500,000 to spend for scholarships during last year — corporations provided a small fraction of that amount.

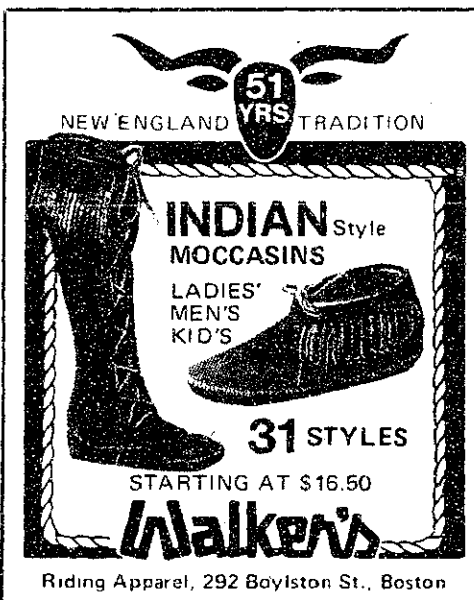
3. The largest source of scholarship aid comes from MIT operating funds — the next largest source is endowed scholarship funds.

4. The total endowment for scholarships now stands at \$30.5 million. Only the income earned by this endowment is used annually for scholarships.


5. The aggregate value of ROTC scholarships exceeds \$2,000,000 per year — students who are also applicants for MIT aid receive \$800,000 of that total.

6. Scholarships from all "designated sources" amount to \$8 million this year — the \$4 million supplement from MIT operating funds brings the total to about \$12 million.


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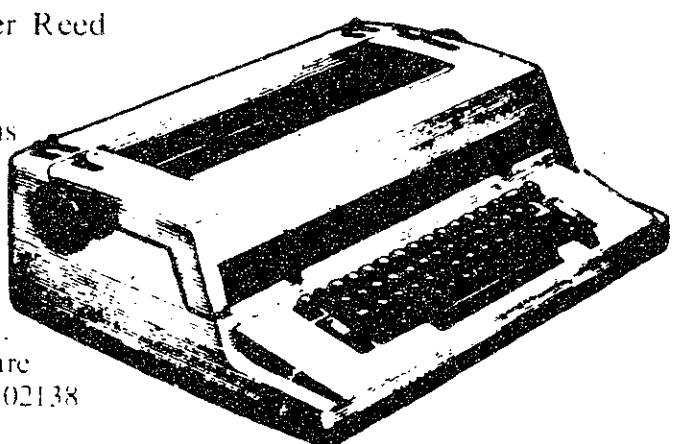


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Tech photo by Barry S. Surman

Taking the "T" takes on a new meaning for this Harvard Square cyclist.

Wellesley tuition, food costs increase as room fees drop

By Allison Burman

The cost of a Wellesley College education will jump \$1000, from \$10,970 to \$11,970, due to a predicted 10 percent increase in overall student costs, according to Molly Campbell, assistant to the college's president.

Tuition is scheduled to increase \$1120, going from \$7430 to \$8550, and the cost of meals will rise \$20 to \$1840 per year. Rent, however, is anticipated to drop by \$140 from \$1640 to \$1500, Campbell said. Wellesley's remaining operating costs are covered through endowments and unrestricted gifts.

"By and large, one really wants room and board costs to reflect what room and board really do cost," continued Campbell. "Wellesley is simply attempting to show the students specifically where their money is being spent."

The decrease in housing costs results from the expected drop in heating oil prices and from the energy conservation program which Wellesley College implemented with loans from the Massachusetts Health and Educational Facility, said Betty Bark, the college's budget officer.

The college also carries a Housing and Urban Development loan, Bark added. "Our

loans have a number of years to run" before they are due.

Wellesley does not plan to build new facilities that would lead to a rise in cost to students, said Bark. Wellesley maintains and renovates its residence halls through the capital budget, a

fund created to finance large, one time improvements, she continued.

"The college will be in the fortunate position next year [of being able] to cover any student's financial need at next year's costs," said Bark.

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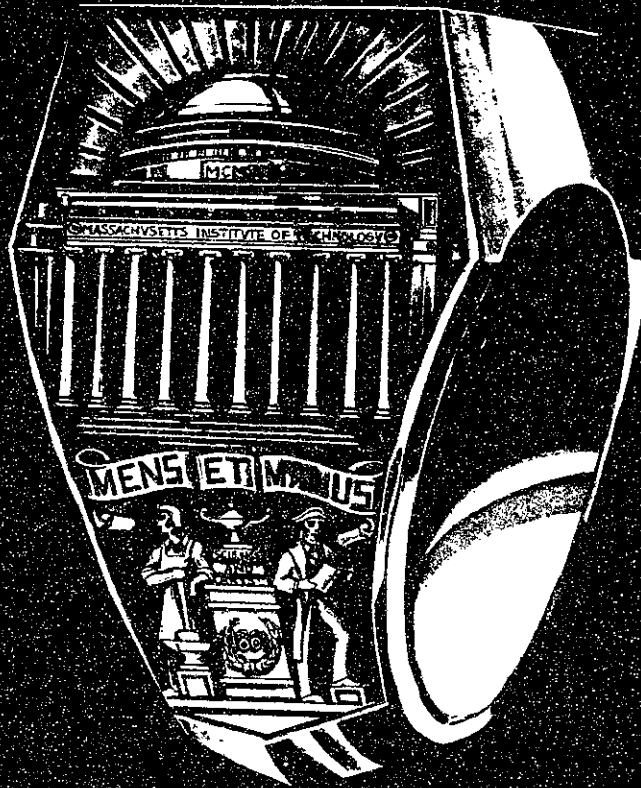
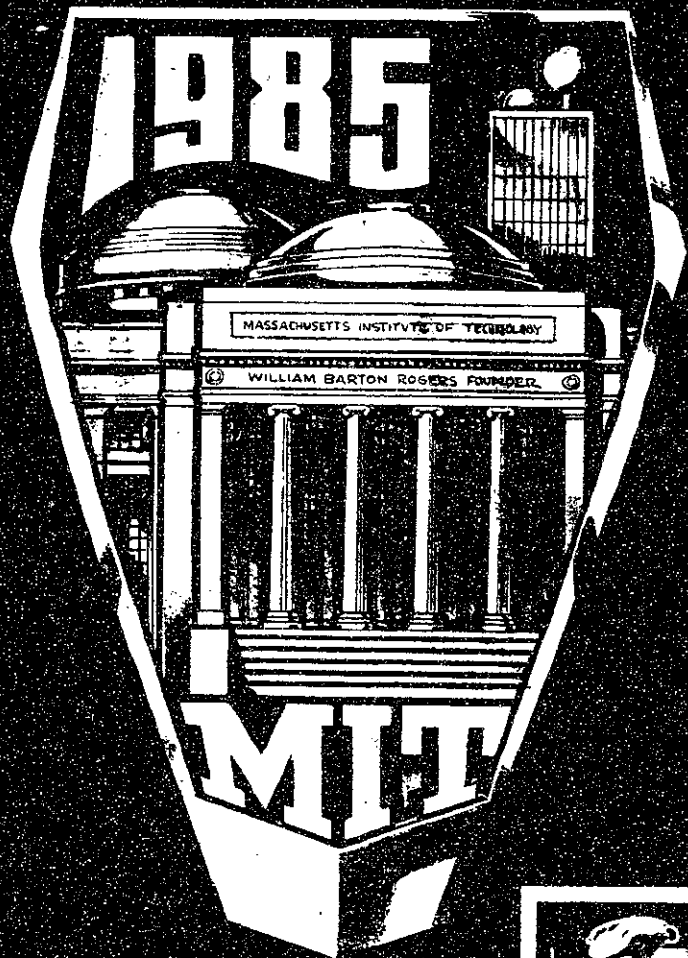
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Ultravox at the Orpheum Theatre, Friday, March 25.

Ultravox emerged in 1977 as another of the fledgling bands produced by Brian Eno. Just as they were at the verge of commercial success, guiding light and lead singer John Foxx departed the band for a solo career. Foxx was replaced by Midge Ure, whose association with the embryonic New Romantic movement drastically shifted Ultravox's direction away from art rock and toward electronic dance music. The band's post-Foxx albums, while interesting enough, provided no indication as to how they would sound live.

If Ultravox's new album *Quartet* was any indication, the show would be rather dull, but disaster was averted by the inclusion of songs from the three most recent albums. It appeared, however, that Ultravox had replaced boredom with mechanical renditions of the tunes, with little or no rapport between the band and the audience. Only Billy Currie on keyboards and violin appeared to be having any fun. With simple gymnastics and animated facial expressions he conveyed the impression that the music was important to him.

For me, the turning point in the concert fell midway through "Mr X," a song from the *Vienna* album. Foxx's leaving greatly affected the band, and the song can be considered a tribute or perhaps a parody of him. The song's coldly mechanical beat and haunting lyrics bear all the trademarks of Foxx's *Metamatic* solo album. My fascination with Foxx blurs my perspective of the concert, but soon the concert changed for the entire theater.

After "Mr. X," the music paused and Midge Ure thank Boston for showing up. But he wanted to see us DANCING. With this, they burst into their dance hit of a few years back "Sleepwalk", and then "The Voice". Midway throughout the song, some roadies brought out three hexagonal drum pads. Someone put his synth on auto-pilot and the whole band played an extended rhythm break. By now, the entire house and the band were enjoying themselves. (This furthers my theory that all music sounds better when you are standing up).

Following two dance tunes with the slower "Vienna" could have been disas-

trous to the entire mood, but the grandiose ballad held its own. As if to recover the mood, Ultravox played their latest hit "Reap the Wild Wind". Maybe I still yearn for the good old days but I thought this song dull in comparison with the older works. Yet, by widening the scope of their audience, the band can reach more people, and "reap the wild rewards". To me it seems like a cheap ploy to build up the audience into a fever pitch on old material and then play new material. Would this lead the audience to believe that the new is as good as the old? I don't think so.

The two encores didn't seem to fit in with the rest of the concert, as both were from the new album. The first was "Hymn," a mutated version of the Lord's Prayer:

*Give us this day,
All that you showed me
The power and the glory
Till my kingdom come*

As you might imagine, it started slowly with church overtones and started rocking after the first chorus. It's actually not as tacky as I make it sound.

The second encore, "The Song (We Go)", started and ended with the a capella singing of some nonsense words (do-wah-diddy or some such). At the close, the band stopped and the two background singers continued even as the curtain closed.

The four members of Ultravox were augmented by two male background singer, one who occasionally played keyboards. Although their presence was necessary, it marred the simple symmetry of the stark, multied tiered stage. The entire set was painted a pale grey (including most of the instruments) and all of the band work black leather and cloth. Colored lights, bright "rude" spots pointing out into the audience, and lots of smoke completed the set.

Although Ultravox proved themselves to be competent in concert, it was difficult to escape the impression that the show was more a marketing ploy than an effort at entertainment. With their new watered down sound and an album destined for hit status, Ultravox might just help make such concerts commonplace.

Paul Czarnecki

ARTS

Above the Fruited Plain, Polyrock on PVC Records.

It has long been fashionable to dislike the New York-based group Polyrock. *Stereo Review* called them "mainstream avant-garde", and indeed their work to date (two Philip Glass-produced albums on RCA) has been too avant-garde for AOR fans and too mainstream for those who like their dance music esoteric. I rather liked the first two albums, which contained a unique, driving music with a thicker, somewhat more industrial sound than that of the Human League and its clones. Still, I suppose one has to wonder a little about any band with three keyboard players...

The five-song EP *Above the Fruited Plain* represents a departure from Polyrock's earlier albums in several ways. Co-founder and violinist Tommy Robertson has left the band in the hands of his brother Billy, who also serves as producer for the new label. Perhaps the easiest way to deal with this record is just to discuss the five songs in order of appearance:

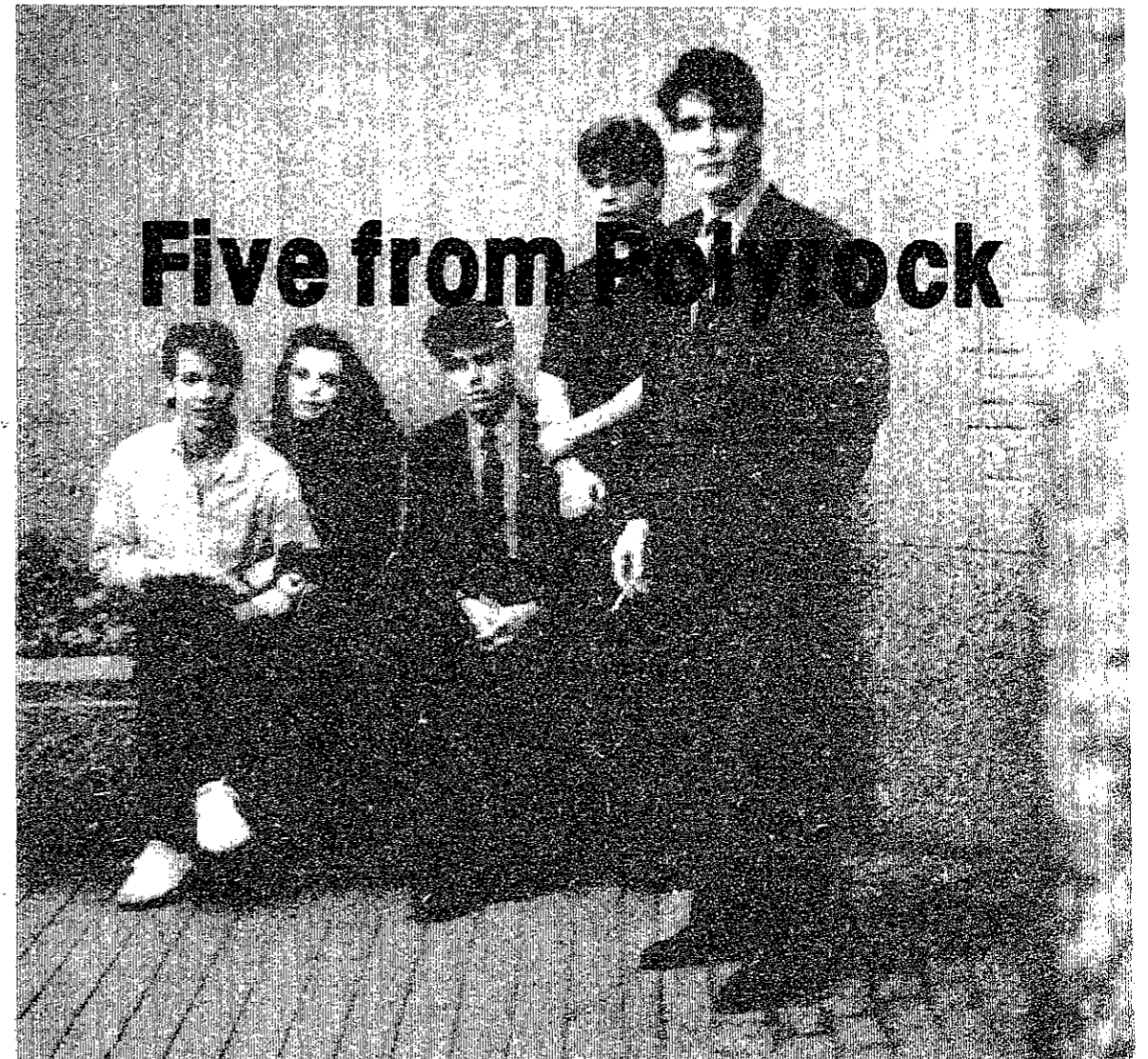
Side one opens with "Working on My Love", an ultimately forgettable synth-pop piece with mindless Robertson vocals consisting mostly of "Working on my love / Building up my love / Exercising my love". Synthesized violins don't make up for the loss of Tommy's real one, and I'm

not sure just what lapse of judgement resulted in the prominently mixed marimbas. "Call of the Wild" is a good dance tune sung by Cathy Oblasney, who also plays keyboards. But it's too much of a formula piece rather than an innovative one — Roxy Music could have recorded this in 1976.

Two is the side to pick when you're spinning only one, opening as it does with the actually lyrical vocals (perhaps a first for this band) on the excellent dance number "Chains of Iron". Another winner is "Broken China"; my major complaint here involves its opening with the words "I love a girl with Asian hair . . .", which makes me wonder if the lyrics being passed off as profound actually represent some kind of extended pun. Fortunately, the multiple rhythm lines are so compelling that one need not bother with the lyrics.

The EP closes with my favorite, "Indian Song". This is vintage Polyrock dance music, and could almost have been lifted from their first album except for its slightly sparser sound. The typical wordless vocals by Oblasney are backed up by percussion sounding like small-arms fire in the distance, all part of a melodically very simple whole. It is well suited to playing late at night when everyone is either too exhausted or too wasted to dance to anything terribly cerebral.

V. Michael Bove



The Ramones return to Boston on March 30 for a concert at the Metro on Wednesday, March 30 at 8pm at the Metro. Tickets are \$9.50.

Friday the 13th, the Midnight Movie. Saturday, April 2, second floor of the Student Center; admission free.

ON THE TOWN

The "MIT Experimental Music Studio" presents an informal concert of computer music from Stanford University on Wednesday, March 30, at 8:30pm in room 10-250. The program will include works by Michael McNabb, who will also present a seminar entitled "Computer Music: New Freedoms in Musical Expression" at 7pm before the concert. Both events are free and open to the public.

Elizabeth Taylor and Richard Burton will be professionally reunited when they co-star in Noel Coward's *Private Lives*, which will open at the Wilbur Theatre. The limited engagement begins on April 7 and runs through April 24, for information and reservations call 426-4250.

Center Screen presents the Boston-area premiere of Emile de Antonio's *In the King of Prussia*, the story of the events leading up to the Plowshares 8, an anti-nuclear protest group. The film stars Martin Sheen, Daniel Berrigan, and the Plowshares 8; with music by Jackson Brown. Screenings are at the Carpenter Center for the Visual Arts, 24 Quincy St., Harvard University, this weekend.

Composer **John Cage** will begin the Museum Of Fine Arts Contemporary Concert Series with a lecture on John Cage in his seventieth year. Portions of his works "Etudes Australes" and "The Freeman Sonatas" will be performed by Stephen Drury, piano, and Daniel Stepner, violin. The lecture will take place on Wednesday, April 6 at 8pm in Romis Auditorium. For further information call 267-9300, x300.

This weekend's LSC Movies:
Pink Floyd: The Wall, Friday, 7 & 9:30, 26-100.
The Gold Rush (Classic), 7:30, 10-250.
2001: A Space Odyssey, 7 & 10, 26-100.
2001: A Space Odyssey, 6:30 & 9:30, 26-100.

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"The Silicon Revolution"

3:30-5:00
Room 6-120

Refreshments

Wulff Lecture on
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Dr. Pierre Aigrain
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Wednesday, March 30

12:00-1:00
Room 26-110

Free Lunch
Informal Discussion with Faculty

Twenty Minute Talk
Professor H. Kent Bowen, MIT
"The Ceramic Substrate Revolution"

3:30-5:00
Room 6-120

Refreshments

Wulff Lecture on
"Careers in Electronic Materials"
Dr. Kenneth Jackson
Bell Laboratories

Thursday, March 31

12:00-1:00
Room 26-110

Free Lunch
Informal Discussion with Faculty

Twenty Minute Talk
Professor Harry C. Gatos, MIT
"The Semiconductor Revolution"

3:30-5:00
Room 8-314 (Chipman Room)

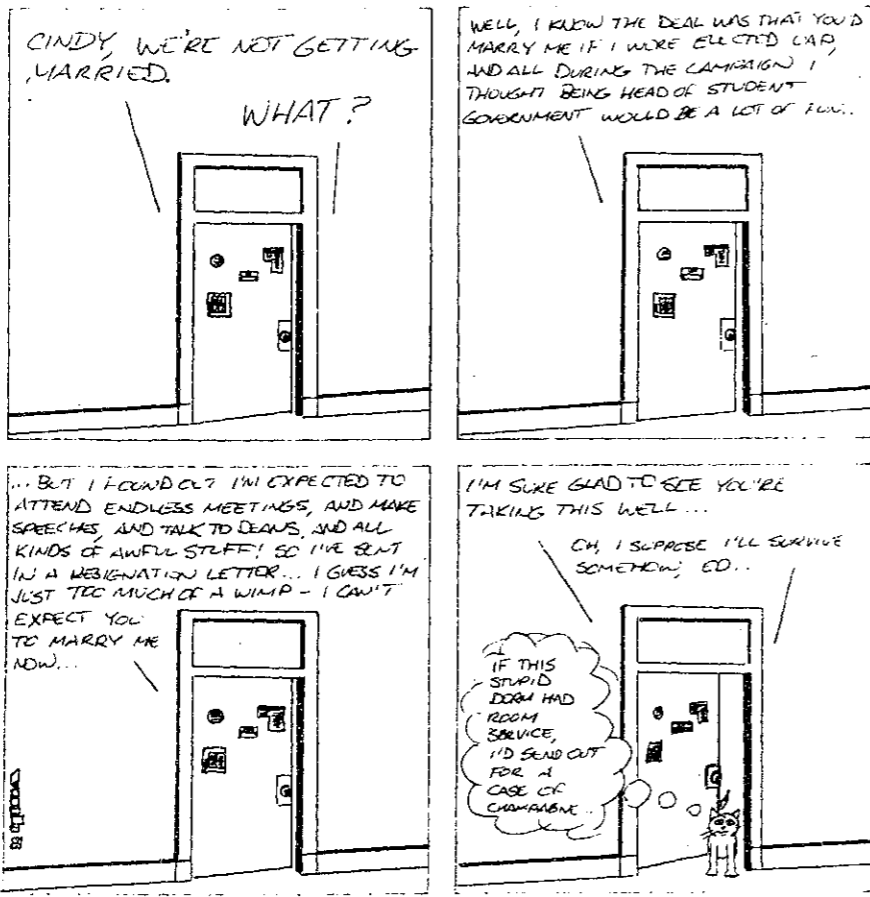
Refreshments

Short Presentation
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Department Head
"Materials Education at MIT"

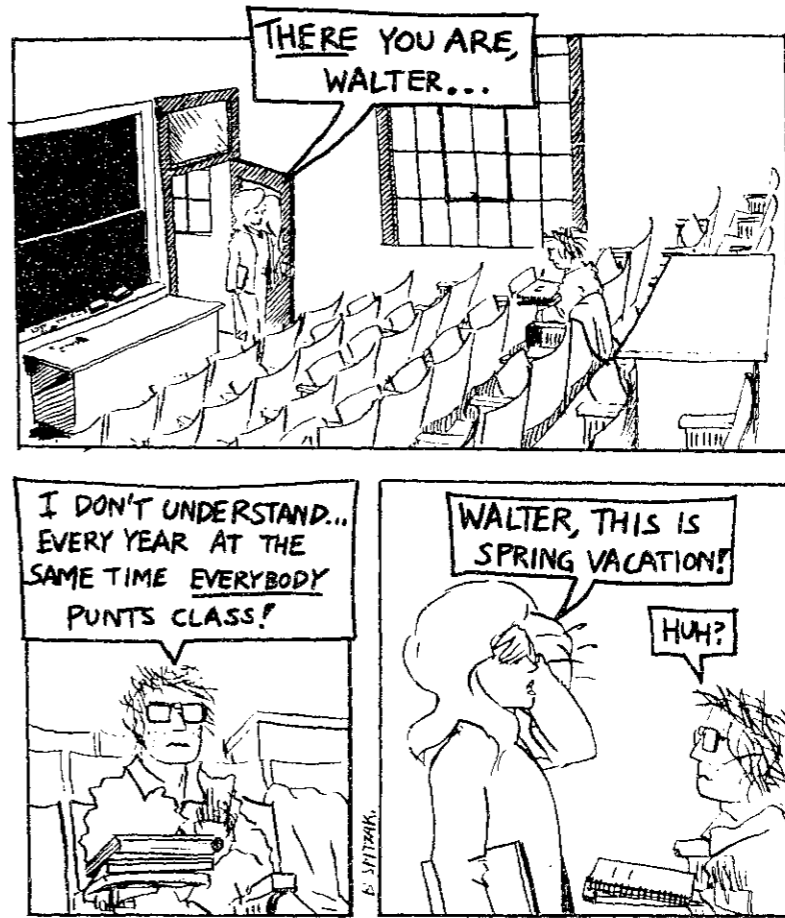
Departmental Open House,
Laboratory Visits.

comics

Outside Looking In
By V. Michael Bove



Space Epic
By Bill Spitzak



Dolpha
By Joe Cerami



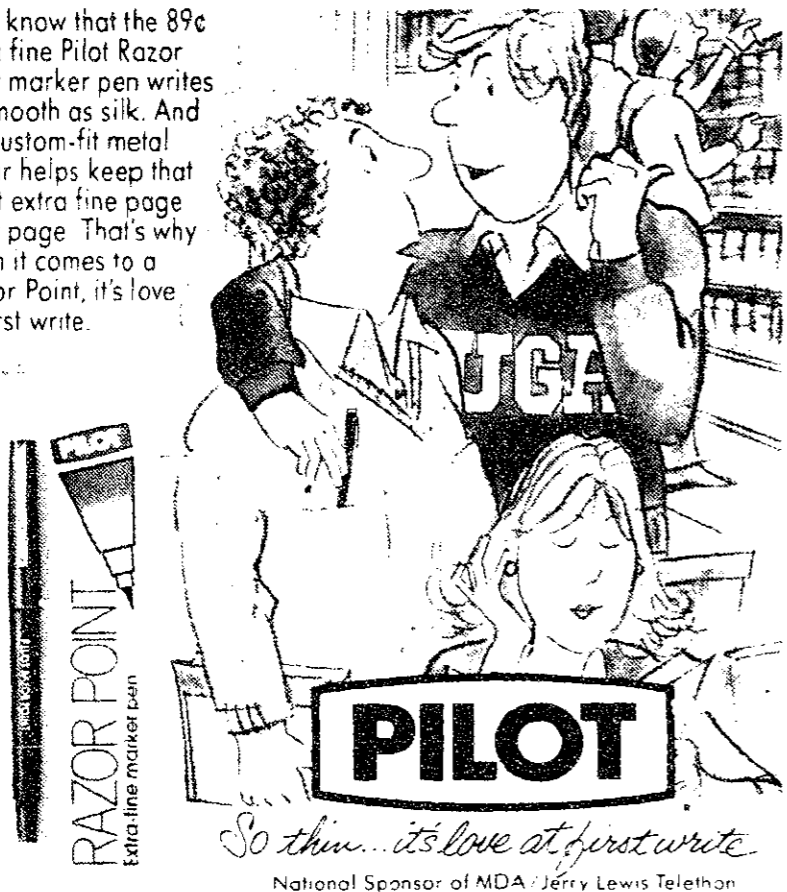
Room 001
By Carol Yao



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Holy Week Services

Wednesday, March 30	Service of Holy Communion	5:10 PM
Thursday, March 31	Footwashing, Communion and Agape	5:30 PM
Friday, April 1	Good Friday Service	12 Noon

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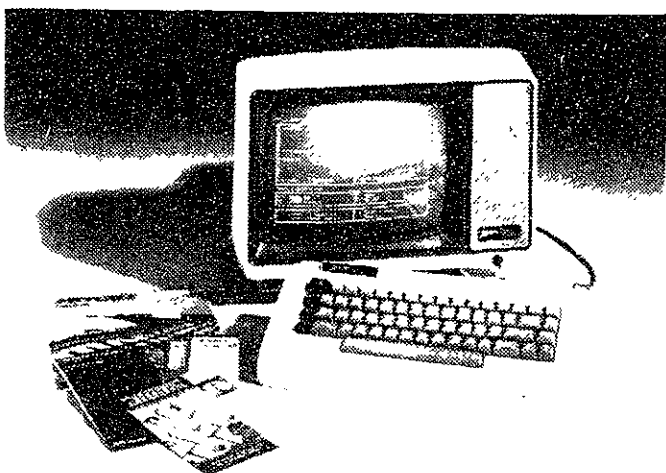
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sports

Pistol pair receives All-American honors

By John Blascovich

Editor's note: John Blascovich was last year's pistol team captain.

The varsity pistol team capped a very successful season last weekend, capturing two team medals at the National Intercollegiate Pistol Championships held at West Point. In addition to the medals, two Tech shooters received All-American honors.

The Engineers finished second behind the Air Force Academy in the air pistol competition, accumulating 1458 out of a possible

1600 points. Duncan Hughes '83 led the squad with a career-high score of 372 out of 400. The three other team members were Dave Martin '84, who shot a career-high 369, Joe Mayo '83, who fired a 360, and Larry Deschaine '84, who had a 357.

Hughes turned in another fine performance in the free pistol event, scoring 521 out of 600, to lead MIT to a third-place showing, just two points behind Army's 2014 (of a possible 2400), and 83 points off of Navy's record-setting 2095. Mayo added 513, Deschaine 492, and captain Jon Williams '83 contributed a 486 to the total.

The team finished fifth in standard pistol, with Mayo setting the pace at 532 out of 600. Martin was right behind him at 528, Hughes had a 511, and Williams shot a 502 to bring the Engineers' total to 2073. Navy, Air Force, Army, and the Citadel captured the top four places.

Two other MIT shooters — Roberto Landrau '85 and Jerry

Martin '86 — were also invited to the championships and competed as individuals.

A pair of the Engineers' most consistent marksmen were named All-Americans at the conclusion

of the weekend. Mayo earned a berth on both the free and air pistol teams, each of which consists of the top nine shooters in the country. Martin was awarded a spot on the five-member stan-

dard pistol squad. The two were instrumental in achieving the Engineers' 7-1 league record, including the squad's first victories over Army and Navy in more than five years.

sports update

Rugby

- 4/2 — vs. West Roxbury RFC, 1pm
- 4/13 — vs. Brookline H.S., 4pm
- 4/23 — vs. Charles River RFC, 1pm
- 4/26 — vs. Marshfield H.S., 4pm

Men's Sailing

- 4/2-4/3 — Staake Trophy, 11:30 am
- 4/9-4/10 — MIT Invitational, 9:30am
- 4/23 — Team-Race, Elimination "B," 11:30am
- 4/24 — Geiger Trophy, 9:30am

Women's Sailing

- 4/16-4/17 — Emily Wick Trophy, 11am

Softball

- 4/2 — vs. Bates, 1pm
- 4/9 — vs. Wheaton (2), 11am
- 4/11 — vs. Lasell, 3:30pm
- 4/21 — vs. Emmanuel, 3:30pm
- 4/29 — vs. Regis, 3:30pm
- 4/30 — vs. Brandeis (2), 11am

Men's Tennis

- 4/6 — vs. Bowdoin, 3pm
- 4/7 — vs. Amherst, 3:30pm
- 4/8 — vs. Colby, 3pm
- 4/9 — vs. Williams, 2pm
- 4/13 — vs. Tufts, 3pm
- 4/15 — vs. Vermont, 3pm
- 4/16 — vs. Trinity, 2pm

Women's Tennis

- 4/19 — vs. Brandeis, 3:30pm

Track

- 4/9 — vs. Bowdoin, 12:30pm

(Please turn to page 11)

on deck

opened its season in fine style, finishing fourth of 14 at Sunday's MIT Invitational on the Charles River's Lower Basin. Another squads went to the Boston Dinghy Club Cup at Harvard and placed 11th in the 16-team field. The teams will be in action again this weekend — one at Navy for the Owen Trophy, and the other at home for the Staake Trophy.

Tennis — The men's tennis team went on a road trip to North Carolina last week and came out on the winning end of a 3-1 record. The squad defeated Belmont Abbey on Monday 5-4, lost to Davidson 9-0 Tuesday, blanked Catawbe by an identical score Wednesday, and was snowed out at Pfeiffer (!) Thursday. The team ended its journey Saturday with a 5-4 win over Georgetown.

(Please turn to page 11)

51
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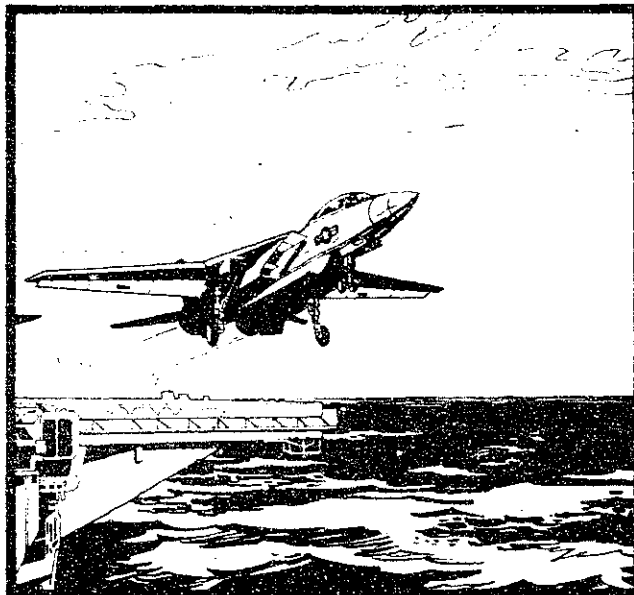
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Photos by Jon Williams

Two other MIT shooters — Joe Mayo '83 (left) and Dave Martin '84 (right) captured honors at the National Intercollegiate Pistol Championships last weekend.

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