

Covert joins NASA panel Shuttle group to report on findings in four months

By Earl C. Yen

President Ronald Reagan last Monday appointed Professor Eugene E. Covert PhD '58, head of the Department of Aeronautics and Astronautics, to a 12-member presidential commission investigating last week's explosion of the space shuttle Challenger.



Photo courtesy MIT news office

Eugene E. Covert PhD '58

"It's a great honor," Covert said. "It's a privilege to be able to help with something like this." Covert, a consultant to the

National Aeronautics and Space Administration (NASA) on rocket engines, refused to speculate on possible causes of the Jan. 28 disaster.

"The prudent engineer has a responsibility to try to be accurate about these things," he said. "Most responsible people don't speculate."

The commission will report its findings within four months. It will also recommend ways to avoid a similar accident. NASA's interim investigation board has completed its role in the investigation.

"This will give the American people the opportunity to know that an outside group of experts, distinguished Americans who have no axe to grind, have come in to review the findings of NASA and to request additional data," said White House spokesman Larry Speakes.

William P. Rogers, a former secretary of state and attorney general, will head the panel. Its vice chairman is Neil A. Armstrong, the first astronaut on the moon.

Members of the panel include: Richard P. Feynman '39, a Nobel Prize winner and professor of theoretical physics at the California Institute of Technology; Al-

bert D. Wheelon PhD '52, senior vice president of Hughes Aircraft Corp; Maj. Gen. Donald J. Kutyna MS '65, director of Space Systems and Command Control and Communications; Sally Ride, the first American woman in space; and retired Brig. Gen. Charles Yeager.

Reagan called on the panel to make "a calm and deliberate assessment of the facts and ways to avoid repetition. . . . We owe it to [the seven crewmembers of Challenger] to conduct this investigation so that future space travelers can approach the conquest of space with confidence and America can go forward with the enthusiasm and optimism which has sparked and marked all of our great undertakings."

The panel will examine debris, photographs, and telemetry graphs, Covert said.

Covert, who is also the director (Please turn to page 21)



Tech photo by Elliott Williams

Frank E. Perkins '55, dean of the Graduate School

Graduate departments grow

By Jeffrey C. Gealow

Growth in MIT graduate enrollment over the past decade has exacerbated MIT's graduate housing problems, reveals a study conducted by Frank E. Perkins '55, dean of the Graduate

School.

Perkins' ongoing study of graduate enrollment indicates that the number of graduate students has been growing at an annual rate of about three percent since 1974. From 1965 to 1980, the ratio of graduate to undergraduate students remained roughly constant at about 0.85. Since 1980, the ratio has increased to 1.08, according to Perkins.

The growth in graduate enrollment has outstripped the construction of new housing, Perkins said. As a result, MIT can provide housing to a decreasing percentage of the graduate student body, he said.

In addition, enrollment growth is causing a growing space problem in laboratories and offices, he continued.

Some departments have exper-

perienced a tremendous growth in enrollment without comparable growth in faculty, Perkins said. One problem resulting from this trend is that some students have difficulty finding thesis advisors, he added.

Janine M. Nell G, president of the Graduate Student Council, said that some departments have been unable to provide enough funds to support the number of graduate students enrolled.

The faculty may be spending more time seeking funding for graduate students, thereby neglecting undergraduates, Perkins warned.

MIT must make a choice "between continued unchecked growth in research volume — to which increasing graduate student, postdoctoral, and research staff numbers are tied — and re-

(Please turn to page 19)

Massachusetts passes new hazing regulations

By David P. Hamilton

Governor Michael Dukakis on Nov. 26 signed a bill passed by the Massachusetts legislature forbidding the practice of hazing.

In compliance with the new law, the Office of the Dean for Student Affairs (ODSA) required all students to sign a statement on Registration Day indicating that they had received a copy of the law.

Text of the ODSA statement on hazing, page 14.

The hazing law is "really an amplification of existing assault and battery and harassment laws," according to Robert A. Sherwood, associate dean for student affairs. The bill explicitly states that hazing is a crime, he said.

MIT has always had its own hazing policy for fraternities, Sherwood said. The InterFraternity Council (IFC) authored its own rules for internal policing, he continued.

The current IFC policy deals only with "pre-initiation activities" and does not apply to the initiated membership of a fraternity, he explained. MIT should consider extending the hazing policy to all students, Sherwood suggested.

Sherwood mentioned a case recently brought before the MIT

Committee on Discipline (COD) where an MIT student who had been an initiated member of a fraternity for several years was the subject of a hazing incident.

COD chairman Elias P. Gyftopoulos PhD '58 declined to comment on the case until the review is completed early next week.

The new law applies to secondary schools as well as all public and private universities. The law would address possible hazing incidents in Reserve Officer Training Corps (ROTC) units, athletic (Please turn to page 15)

inside

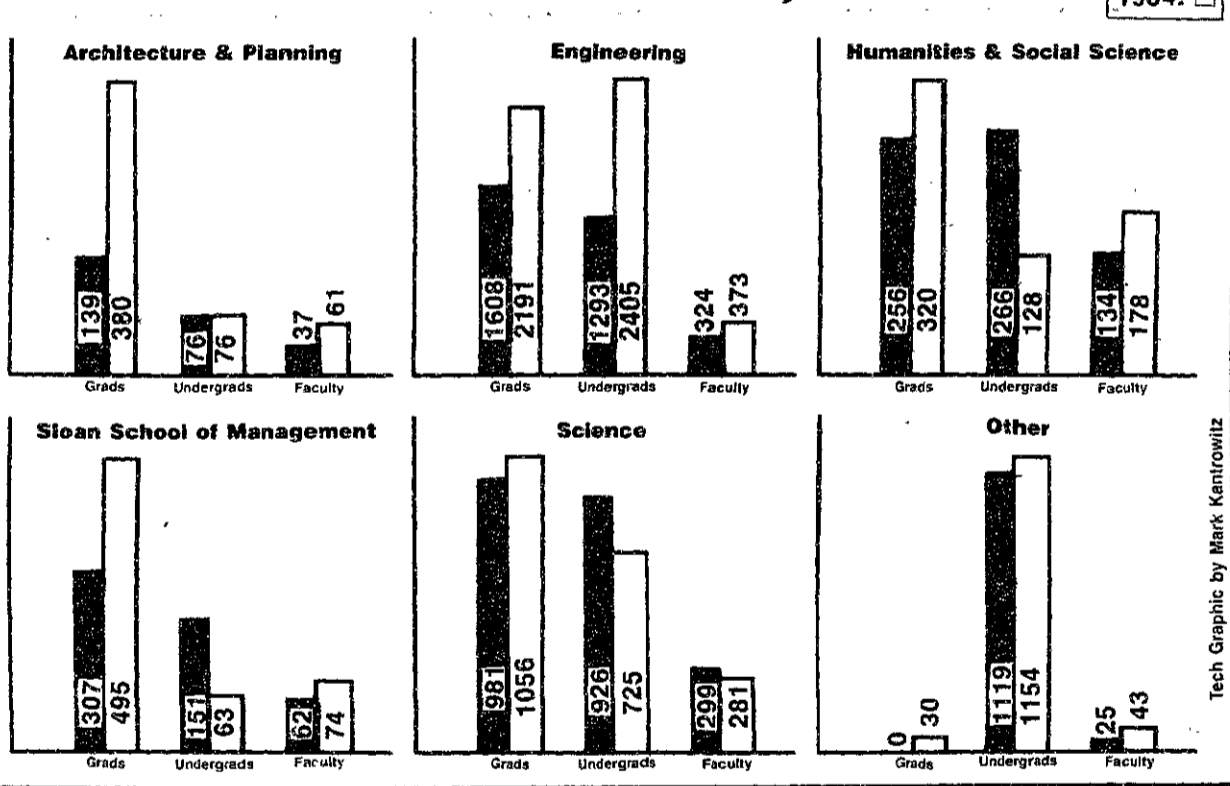
How can MIT stem the decline in black enrollment? Page 8.

Carlin's caustic comedy. Page 10.

Who is more real: the author or the characters? Page 13.

It's now even easier to graduate from Stanford. Page 17.

The Growth of MIT's Schools, 1968-1984



Tech Graphic by Mark Kentrowitz

Housemasters shown grades

By Andy Fish

The Student Assistance Services in the Office of the Dean for Student Affairs supplies dormitory housemasters with grade reports of every dormitory resi-

dent. These reports are intended solely for counseling purposes, said Robert M. Randolph, associate dean for student affairs.

The distribution of grade reports has been going on for at

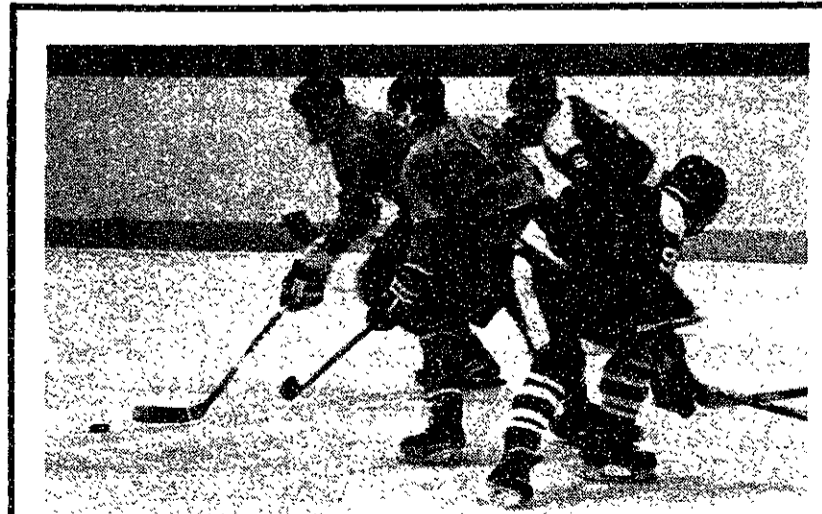
least seven years, he said. The reports were released at the request of the housemasters, Randolph said.

The grade report distribution is only a convenience to housemasters — all faculty members can access any student's records, he added. Grades are not released to fraternities because they do not have faculty residents, Randolph said.

Professor Judah L. Schwartz, Bexley Hall housemaster, said that, to his knowledge, MIT has no policy on what the housemasters can or cannot do with the grade report information.

A dormitory president who requested anonymity said that in one case, a housemaster who learned of a student's academic problems informed the president, and advised him that the student should not be as involved in house government.

(Please turn to page 21)



Tech Photo by Sue Fatur

MIT hockey defeated University of Southern Maine 6-4 Wed. night. See story page 24.

Student co-authors arson bill

By Derek Chiou

An MIT student authored an anti-arson bill that was signed into Massachusetts law last month as part of an Undergraduate Research Opportunities Program (UROP) project.

Kenneth Sparks '86 authored the bill, designed to reduce arsonists' profits, for State Rep. Peter A. Vellucci. Governor Michael Dukakis signed it into law on Jan. 10.

The bill, one of six Sparks wrote for Vellucci, prevents people convicted of arson or arson-related crimes from buying tax-foreclosed property. The bill applies the same restrictions to tax delinquents.

Sparks, a chemistry major who plans to attend law school, conducted part of the research and writing of four anti-arson bills for Vellucci during a UROP in 1983. Professor Deborah A. Stone PhD '76 of the Department of Political Science supervised the work. Sparks later finished the bills and wrote two others as Vellucci's employee.

Vellucci decided to take legislative action on arson because of its destructive impact. Sparks estimated that hundreds of millions of dollars have been lost in taxes, insurance money, and personal

Arsonists often purchase inexpensive property and buildings that have been seized by a city or town for delinquent taxes, Vellucci said. They then heavily insure the buildings and later burn them down to collect the insurance, he said.

Real estate developers sometimes commit arson to clear out tenants with long leases in order to re-develop the area into a more expensive one, Vellucci continued. To maximize their profit, the arsonists often do not pay taxes on the property, he said.

The ratified bill, Chapter 803, is titled "An Act Establishing a Disqualification System for the Sale of Certain City and Town Properties." It cuts down the profits of arsonists by eliminating one of their major means of acquiring cheap property.

The bill prevents anyone who has been convicted of "willful and malicious setting of a fire or of a crime involving the aiding, counseling or procuring of a willful and malicious setting of a fire, or of a crime involving the fraudulent filing of a claim for fire insurance; or [who] is delinquent in the payment of real estate taxes to the city or town in which the property is being sold" property to arsonists.

from purchasing property "acquired by a city or town by foreclosure of a tax title," according to the text of the bill.

The act will also enhance tax revenues because it forbids tax delinquents, even those with no record of arson or arson-related crimes, to buy government property, Vellucci said. Such delinquents must pay their back taxes before the state will allow them to purchase the cheap real estate, he added.

"The MIT campus is in my district and my legislative assistant Clifford Truesdell was formerly a UROP assistant director. We got in touch with UROP, and they found and then helped fund Ken Sparks," Vellucci said.

Sparks started the package of four anti-arson bills during the first semester of his sophomore year in a UROP which was funded by a Class of 1972 award. He researched the background material for the bills by surveying literature on arson, including existing laws of Massachusetts and other states, and familiarizing himself with the terminology necessary to write a bill.

Sparks finished the bills as an employee of Vellucci. He also authored two lie-detector bills for the representative. Most of the bills were completed in 1984, and all were filed in 1985.

Sparks spent five to 15 hours a week on his project during his semester of UROP and continued at four to five hours a week afterwards. He worked independently on the whole, carrying out his research at MIT and State House libraries and writing the bills himself.

Of the five bills that have not been passed, Vellucci will refile three. Two others, however, were dropped because their goals already had been or will be accomplished, Sparks said.



Tech photo by Kim Kellogg

Ken Sparks '86, co-author of new arson law

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A MESSAGE TO M.I.T. STUDENTS REGARDING NOMINATIONS FOR THE COOP BOARD OF DIRECTORS

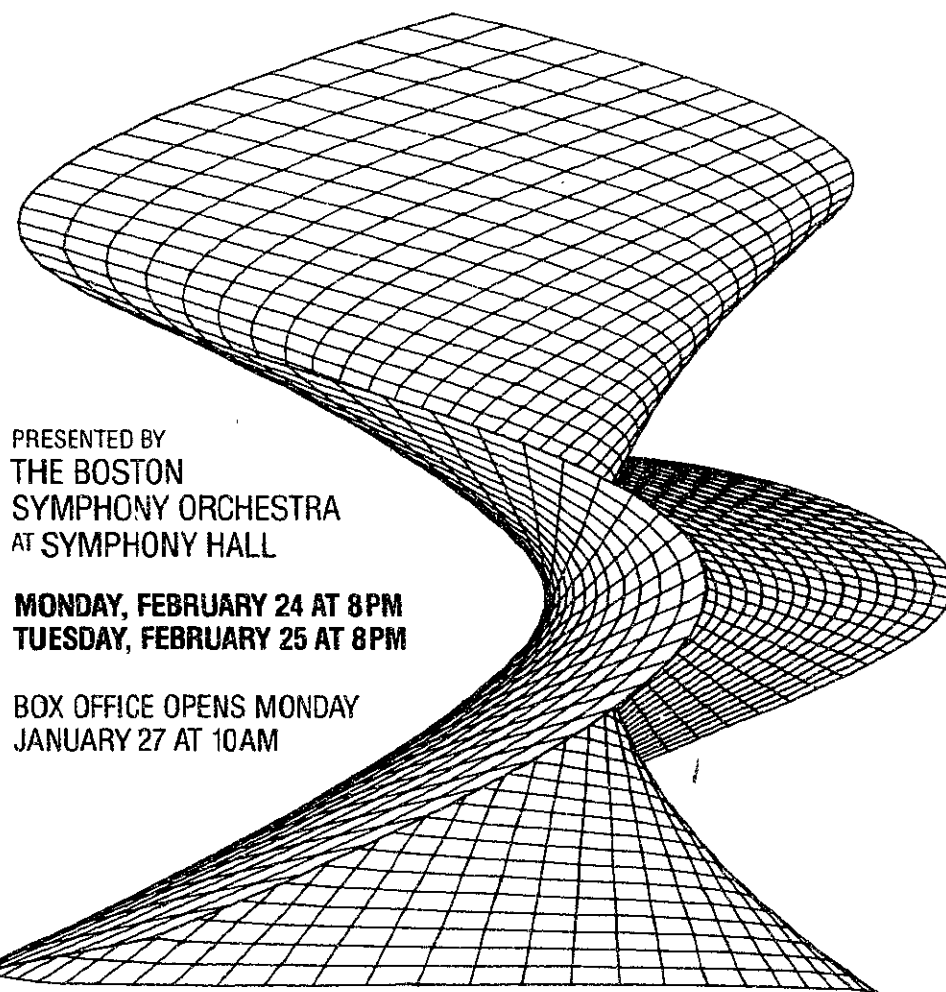
If you, as a Coop member and a degree candidate at M.I.T., are interested in serving as a Student Director of the Harvard Cooperative Society for the next academic year and you are an undergraduate student, contact LuLu Tsao, Co-Chairperson of the M.I.T. UA Nominations Committee in Room W20-401, Office Phone Number 253-2696. If you are a graduate student, contact Anne St. Onge in the Graduate Student Council Office, between the hours of 1:30 pm - 5:00 pm, Office Phone Number 253-2195. (Completed applications must be submitted by 5 PM, Friday, February 14, 1986.)

The Coop's Board of Directors has a total of 23 members, 11 of which are students from M.I.T. and Harvard, 11 are members of the faculty and staff or alumni of M.I.T. and Harvard, plus the President of the Society. The Board oversees the operation of the Coop and sets policy for the Coop's operation. The Board meets monthly during the academic year.

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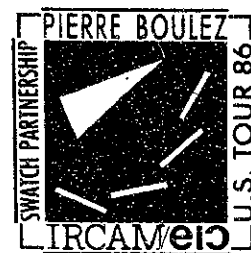
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news roundup

from the associated press wire

World

Kennedy goes to Moscow

Senator Edward Kennedy completed a three-day visit to the Soviet Union yesterday. On Tuesday, he met with foreign minister Eduard Shevardnadze. Later, Kennedy issued a call for US-Soviet scientific cooperation to end the threat of nuclear war. Speaking to a group of Soviet scientists, he declared that improved relations between the superpowers make it possible to envision an arms control agreement. Kennedy spoke yesterday with Soviet leader Mikhail Gorbachev, who expressed his condolences over the shuttle disaster. The two also discussed arms control. (AP)

Allies discuss arms proposals

Two US arms control experts have been sent to Asia and Western Europe to talk with leaders there about the latest Soviet proposal on reducing nuclear arsenals. President Reagan wishes to respond to the suggestions next week. (AP)

US observers oversee elections

US Senator Richard Lugar (R-Ind.) said Philippine officials had changed their minds, and would allow his 20-member team of observers to watch the ballot-casting. Once balloting started, however, some neutral poll-watchers were banished from voting centers. Voting is mandatory in the Philippines, but mounting indications of trouble have accompanied reports of heavy turnouts in several areas. When some polls opened late, observers reported shootings and other violence. In one province voting stopped abruptly for an hour when unidentified men seized seven ballot boxes, a pollwatcher said. But the head of a pollwatching group says there was "not much rampant cheating." (AP)

Philippines election today

The Philippines election is finally over, leaving only the counting of 26 million Filipino ballots to determine the result of an intense, 2-month long, presidential campaign. President Ferdinand Marcos held a mass rally in Manila yesterday while full page ads in newspapers advertised large discounts at government food markets. The influential Archbishop of Manila, Jaime Cardinal Sin, issued an unusually strong endorsement of his opponent, Corazon Aquino. Eighty-four percent of the Filipino population is Roman Catholic. (New York Times)

Israel forces down Libyan jet

Israeli fighters intercepted a Libyan executive jet on Tuesday. Israeli planes encountered the jet near Cyprus and forced it to land in northern Israel, believing that Palestinian terrorists were on board. The plane was actually carrying seven Syrian government officials and two Lebanese militia officers. After holding the passengers for seven hours, the Israelis allowed the three-person crew and the passengers to continue on to Damascus. While deploring the Israeli action, the US vetoed a United Nations Security Council resolution which would have condemned it. (AP)

Palestinians threaten airlines

Hardline Palestinian groups headquartered in Libya responded to the action by saying that people using US and Israeli airlines do so at their own risk. The Syrian foreign minister accused the United States of sharing guilt in the interception because it sold Israel the fighters. (AP)

Paris hit by bombings

Police are toughening security in Paris following a bombing at a crowded shopping area last night. This bombing was the third blast in three nights. No one has claimed responsibility for the explosion, which injured nine people, six seriously. Police have reportedly connected the bombings to efforts to free four Frenchmen who have been declared missing in Lebanon. (AP)

Diplomatic expulsions continue

The Soviet Union ordered four French diplomats to leave Moscow in retaliation for the expulsion of four Soviets from France earlier in the week. Meanwhile, Italy expelled a Soviet diplomat and an Aeroflot official on Wednesday, accusing them of espionage. The nature of the espionage was not revealed, but a government official confirmed that there was evidence of specific activities. (New York Times)

Duvalier seeks asylum in Europe

President Jean-Claude Duvalier, the Haitian dictator, has requested political asylum in Switzerland, Greece and Spain, government representatives said Wednesday. All three nations rejected his requests. There were also unconfirmed reports that Duvalier had sought asylum in Italy and Argentina, but there was no indication that he had actually left Haiti. Stores in the Haitian capital of Port-au-Prince were open Wednesday for the first time in days. (New York Times/AP)

Guatemala abolishes secret police

A secret police unit accused of human rights violations in Guatemala has been abolished in what the country's new president calls "Operation Surprise." The new civilian leader reported the unit's 600 officers have been taken into custody. (AP)

Oil prices plummet

The price of the best-known grade of US crude oil, West Texas Intermediate, fell from \$17.36 per gallon Monday to \$15.44 a barrel Tuesday, the lowest level in eight years. Prices stabilized slightly on Wednesday, returning to \$16, then edged up further on Thursday. On Thursday three major oil companies, Exxon, Shell and Texaco, trimmed the price they would pay for oil by nearly 2 dollars per barrel. (AP)

Nation

\$1 trillion budget submitted

President Reagan sent Congress a \$994 billion federal budget on Wednesday. He claimed it would help eliminate the deficit by 1991, permit further increases in military spending, and avoid the need for new taxes. It encountered bipartisan opposition in Congress, with many members calling for restraints on military spending as well as new taxes. The new Gramm-Rudman-Hollings law requires a \$144 billion reduction in the deficit for 1987. (Boston Globe)

Dow Jones tops 1600

History was made on Wall Street yesterday, as the Dow Jones industrial average closed above the 1600-mark for the first time. A 7.5 point gain put the average at 1600.69. Some analysts think the market's strength is a carryover from its solid performance all week, based on good economic forecasts. (AP)

President challenges Congress

In his state of the Union address Tuesday evening, Reagan called for far-reaching reforms in the welfare system. He called for deficit reduction without tax hikes, and declared his military buildup off limits to budget cutters. Reagan also reaffirmed US commitment to the space program. He announced a new project he called Orient Express — a spaceplane that could take off from conventional airports, reach low earth orbit, and land anywhere in the world in under two hours. The United Kingdom committed \$4 million to a similar project, called HOTOL (HORIZONTAL Take-Off and Landing). (Boston Globe)

Dartmouth orders shacks removed

Dartmouth College president David McLaughlin said on Tuesday that shacks built on the campus as a symbolic protest against apartheid must be removed by the weekend. The college has said it will consider divesting \$63 million of South African holdings if changes in apartheid are not forthcoming in 1986. (AP)

Hormel strikers meet management

Leaders of striking Hormel meatpackers met Wednesday with company negotiators to discuss ending the strike as replacement workers filed past the National Guard. The meeting was the first between the two sides in over three weeks. The National Guard was called out on Monday to maintain order in the five-and-a-half month strike. Twenty-five striking workers were arrested after demonstrating in front of the plant yesterday. (AP)

Oscar nominations out

Out of Africa and *The Color Purple* were each nominated for 11 Academy Awards, including best picture. Other best picture nominees included *Prizzi's Honor*, *Kiss of the Spider Woman*, and *Witness*.

Geraldine Page, Whoopi Goldberg, Meryl Streep, Anne Bancroft and Jessica Lange were nominated for best actress. Best actor finalists are James Garner, Harrison Ford, Jon Voight, Jack Nicholson and William Hurt. The winners will be announced March 24. (AP)

Weather

Flaky weather ahead

A broad area of low pressure in the Tennessee Valley late Thursday afternoon will track northeastward toward New England on Friday. A second low pressure system will develop along the Delmarva Peninsula late Thursday night and move northeast to a position just south of New England Friday. These two storms, coupled with a large cold high over Southeastern Canada will make for an interesting snow event here in New England.

Friday: Snow arriving from the south by noon continuing unabated through the evening hours on Friday. The potential exists for a period of heavier snow between 4 and 9 pm. Total accumulations 8-12 cm/3-5 inches. High -2 C / 28 F, low -5 C / 23 F.

Saturday: Mostly cloudy with occasional light snow or flurries. High 1 C / 33 F, low -2 C / 28 F.

Sunday: Increasing clouds. High 2 C / 36 F.

Monday: Cloudy with snow or rain. High -1 C / 30 F.

Forecast by Michael C. Morgan

Local

Dukakis holds troops back

Governor Michael Dukakis banned the state's national guard from going on maneuvers in Honduras. Dukakis claims it would be a step toward sending US troops to fight in Central America. (AP)

New jail in the works

Agreement has been reached on a plan to build a new Suffolk County Jail in Boston. State Senate President William Bulger yesterday said the state, the city and the Massachusetts General Hospital (MGH) were all parties to the agreement. The \$43 million, 435-bed jail is to be constructed on vacant land behind Boston Garden that is now owned by the hospital. In return, MGH has first option to buy the Charles Street Jail site, which adjoins the hospital. (AP)

Central Square arson suspected

Two 12-year-old boys have been arrested in connection with a five-alarm fire in Central Square which caused an estimated \$125,000 damage, Cambridge police said. The youths, charged with juvenile delinquency by reason of arson, were allegedly seen carrying kerosene from the scene of the fire. The blaze damaged a store, a hair salon and a two-family dwelling, but no major injuries were reported. (AP)

Sports

All-Star basketball game Sunday

The world's best go at it Sunday afternoon in the NBA's midseason classic. K.C. Jones' Eastern Conference team fields three Celtics players — Larry Bird, Robert Parish and Kevin McHale. The Western Conference features also three starters from the World Champion Los Angeles Lakers — Kareem Abdul-Jabbar, Earvin "Magic" Johnson, and James Worthy. (Boston Globe)

The league-leading Boston Celtics have now won 13 straight games.

International soccer tourney kicks off

Six American nations are competing in a Florida soccer tournament this week as part of the run-up to the World Cup championship this summer. Canada lost 3-1 to Uruguay in the opening match of the tournament, so tonight's game between the United States and heavily favoured Uruguay will settle the outcome of the three-nation group. The winner will play in Sunday's final against the winner of the Paraguay-Colombia-Jamaica division. Canada, Paraguay and Uruguay are among 24 finalists in the 1986 World Cup to be held in Mexico in June. Canada and Paraguay played to a 0-0 draw in a friendly match played in Vancouver last week. (Globe and Mail)

Compiled by Julian West

opinion

Column/Daniel Pugh

Free competition should rule

The major oil-producing countries of the world are seeking ways to restrain sliding oil prices. Since Nov. 21, 1985, oil prices have fallen from \$31.72 a barrel to a low of \$15.35 a barrel on Tuesday, Feb. 4, 1986.

This decline in oil prices has been the result of overproduction by the Organization of Petroleum Exporting Countries. OPEC alone is producing over 18 million barrels of oil a day. World oil demand is only 15.5 million barrels a day. Oil-producing countries not aligned with OPEC, such as Mexico, Great Britain and Norway, have stepped up their own production to keep up with the OPEC increase.

As crude oil stockpiles rise and prices drop, the cost of refined petroleum products also drops. The wholesale price of heating oil has fallen from 87 cents a gallon in November of 1985 to under 46 cents a gallon. Leaded and unleaded gasoline prices have declined from their November high of 80 cents a gallon to this weeks price of about 48 cents a gallon.

Prices have not been this low since before the Iranian revolution in 1979. Yet the price of gas at the pumps has not fallen accordingly. Some of the retail gas-

oline currently being sold was bought in December, when prices were higher. But the fluctuations in prices from October 1985 until the present should have been seen by the end of 1985 at the latest. Instead, prices rose continually throughout the year and are only now beginning to fall slightly. If gasoline ever drops below \$1 a gallon, as some have optimistically predicted, it probably will not occur for several more months.

Oil companies and oil-producing countries are all making a killing at the expense of the customers. It costs a Middle East oil producer between \$1 and \$4 to bring a barrel of crude oil out of the ground. Even with prices falling, that barrel is selling for about \$16, a profit margin of \$12 to \$15. Multiply that figure by 18 million barrels per day and it becomes clear that OPEC has a good racket going.

The oil companies can buy refined gasoline for less than 50 cents a gallon. They sell it for over a dollar a gallon — a 100% profit margin for being nothing more than a middle man. Again, the customer pays for these unconscionable profits.

The lag times between falling wholesale prices and falling retail

prices is not an accident. The profit margin grows every day the cost of buying gasoline falls rapidly and the price of selling it remains the same or falls only slightly. An extra day of artificial price support could mean millions of dollars to an oil company.

Most upsetting of all is that many advisors and analysts have encouraged OPEC and the other oil producers to limit production. That way, stockpiles can be depleted and the prices can be jacked up even further. The only known justification for this advice is the possibility of economic instability which may result from continued high production levels and falling prices.

It is time to stop worrying about a few rich petroleum exporting countries or oil companies losing a little money. The customer is getting screwed out of lower gasoline prices by international price fixing and attempted production control. Even if the entire racket were to collapse, we would be better off than if we continue to pay tribute to these Middle East extortionists.

Federal stockpiles which were begun to defend against possible oil embargoes will not help the matter any, either. If this tremendous overproduction continues, the stockpiles will only expand until it becomes clear that government stockpiling in this country must stop. Even worse, the government may need to sell some of the oil. But since the petroleum in those holdings was purchased long ago at much higher prices, it would have to be sold at those inflated prices to avoid huge losses, further extending the artificially high prices.

Consumers should be the benefactors of the current overproduction, not the oil companies. William Brunet, an analyst with Advest Inc. in Hartford, said, "Those oil companies are going to make profits on either the downstream or the upstream side of the business." It is unfortunate that consumers have been conditioned to believe it is impossible for prices ever to come down. Otherwise, there would be much more said about the problem of price fixing.

The inflated production in oil producing countries should continue until stopped by natural market forces. The solution is not to try to legislate the safe decline from this spiral. Only natural selection can solve the problems which have given rise to this trend. More tampering with the market will only perpetuate the fragility of the petroleum industry, to the financial detriment of the consumer.



Column/Elliot Marx

Hindsight is not possible with SDI

I was bored and restless. Rummaging around my house, I found an old stool with a lens in the middle of the seat. I took it outside with me. But I remembered a warning: "Do not leave this stool in direct sunlight." The lens wasn't melting, and I couldn't imagine anything else that could go wrong. "Why not?" I thought.

The light focused on a very small area. I tilted the lens to see if I could focus it into an even smaller point. The intensity of the sunlight surprised me. I put a leaf under the lens. It burned within seconds.

I saw a little ant crawling by. "Let's zap it alive!" I was astonished at the success of my new weapon; I felt so omnipotent.

The next day, I invited my friend over. He got carried away with the lens too, zapping every cricket in sight. With the death of each victim, he laughed, and I nervously joined him.

I lost all my trust in him. I never let him use my weapon again.

If I were doing research on the Strategic Defense Initiative here, I would probably be eager and curious, too. But I would be

more concerned with SDI's potential applications. People can destroy weapons with SDI, but they might also destroy innocent civilians, buildings, bridges, and entire ecosystems.

I was careless with my lens. But when I realized that my weapon was dangerous, I was able to take it away from my friend.

Unfortunately, if we deploy SDI, we cannot use such hindsight. Once someone uses SDI offensively, it is no longer "harmless."

Because of the potential for offensive applications, we scientists should take a firm political stand on this issue. We can begin by writing letters to the MIT Corporation, the state government, or Congress. If these measures are inadequate, we must have a political forum similar to the Apartheid Colloquium to give students a chance to speak up.

We can no longer do the dirty work and deny responsibility for the SDI technology we provide. If we blissfully remain silent and hope that things work out, someday we may no longer be alive to speak up.

An eerie silence, indeed.

The Tech

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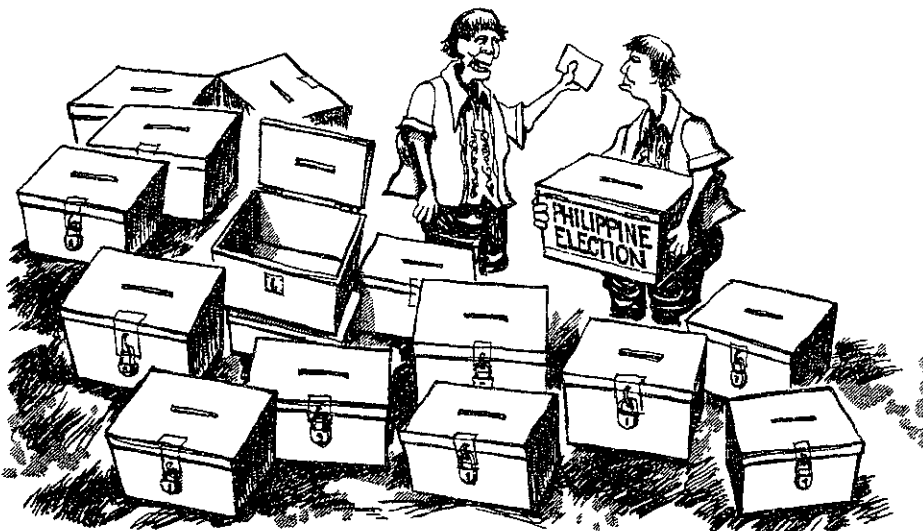
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"I think we've discovered some irregularities in the voting... for example, this vote Marcos got from Benigno Aquino."

opinion



feedback

Make your views known to MIT

To the Editor:

I was shocked to learn from the Feb. 4 issue of *The Tech* ["UA urges tenure review"] that Frank E. Morgan '74 had been denied tenure at MIT. Few current or recent undergraduates at MIT can be unaware of his great contribution to mathematics education and to life at MIT; I won't try to improve on your coverage of them.

As a onetime taker of a graduate course from him, I not only learned of his excellence in teaching but that he is also an active and capable researcher. The work of his which I have seen has certainly been up to the standard of quality I would want to see in a tenured professor at MIT. This is no faint praise; MIT is generally agreed to have the best mathematics department in the country.

After Morgan has taken the time to prepare his excellent lectures and organize the impressive Institute Colloquium Committee, I doubt that he has twelve hours left in a day for writing research papers. I suspect that other junior professors, less interested in students, have simply written papers in higher quantities.

When Gene M. Brown became dean of science we heard that education was now to take a high priority in the school. The decision to deny Morgan tenure shows that this has not happened yet.

Now then, fellow products of an MIT education; consider the

following question. When your *alma mater* calls you up in the evening asking for a contribution, why should you make one? Certainly because you believe that gifts are necessary if a school is to offer an education which costs more than it charges in tuition; because you believe you were the beneficiary of such an arrangement, and you want to pay the school back by paying the difference for some later student.

Student views on military are needed

To the Editor:

The *ad hoc* faculty committee to study the impact of the military on the MIT educational environment distributed a questionnaire at Registration. Not enough students got it or were able to fill it out at that time; we are seeking more responses.

The committee is examining, among other things, the effects of funds received by MIT or by MIT students from military sources on the education of our students. Some particular issues are restrictions on publication, restriction of foreign students' access to research projects, restriction of ROTC students' choice of major, and changes in the direction of research which may be attributable to military funding. We feel that it is especially important that the views of both

undergraduate and graduate students on these questions be known in as comprehensive a way as possible. Questionnaires are available in the UA office at the Student Center, W20-401. We urge students to get a questionnaire and complete it. Their response will be helpful even if they choose to omit some questions. Of course, all responses are anonymous and will be kept confidential. Once they have filled them out, students can leave the questionnaires at the UA office or return them via interdepartmental mail to Carl Kaysen, E51-110. Thank you for your help.

But MIT is now charging more tuition than most adults earn in a year, while Morgan is denied tenure. Words will fall on deaf ears, perhaps, in an institution whose nerve center is in its wallet. Write MIT a letter today, as I am doing, explaining what kind of a school you would think worthy of your money. That kind of message might register.

Miller Puckette '80

Carl Kaysen
Chairman, Ad Hoc Faculty Committee on MIT's Military Involvement

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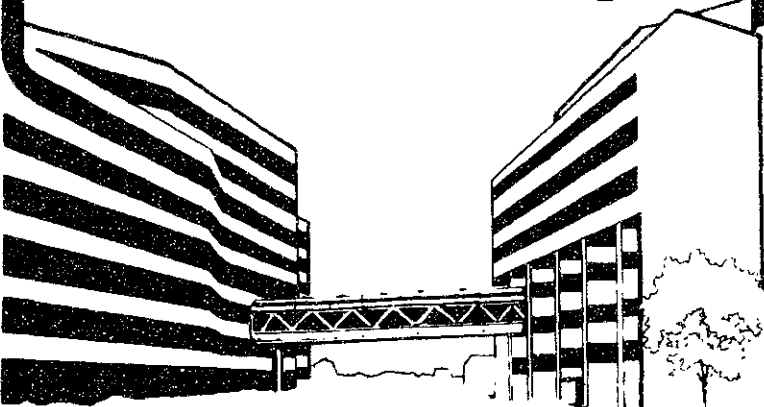
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opinion

feedback

Teaching not a priority at MIT

To the Editor:

My experience at MIT has been both one of intense enrichment and learning, and also one of severe disappointment and frustration. I will discuss both here in the context of someone I met and got to know during my freshman year, Professor Frank E. Morgan '74.

I began at MIT not knowing whom I could really trust. My advisor had too many of us to lend the support each of us needed. Many of my professors were telling me so many technical facts so fast I did not know how to stop them in the middle of it all and ask, "Why is this important to me?" I was left cold by their ramblings and inability to teach and enrich in a way that would make me understand why they were fascinated with the material they were presenting.

Morgan was the only professor I had that term who "taught;" no one else came close. Everyone else merely recited. Morgan made things make sense somehow. He phrased his thoughts just right. He had a goal, I felt. He wasn't concerned in presenting the material faster or in a more economical manner than his colleagues had in the past. Rather, he was interested in making certain that we were learning not only as a class, but also as individual students.

Morgan went further than assuring us an educational experience. He made it fun. He didn't make the material tiring and bothersome, but he made it jump out of his lecture notes right into our imaginations, allowing it to become important not only in his mind, but in ours as well. Is this not what true learning is all about? Is this not what a hungry student craves?

Above all, Morgan was uniquely concerned with us. He tore down, on the very first day of class, walls of indifference seconds after we had put them up. He gave of himself, of his knowledge, of his apartment, and, I further suspect of his time originally devoted for research, for students. He valued the importance of having a unique relationship with those he sought to enlighten.

In the end, this is what I left 18.011 with: evidence that there existed at least one person sufficiently convinced of the importance of a true undergraduate education at MIT. I think this is what many of my classmates left with as well.

Professor Morgan will no longer be teaching introductory math courses, or anything else for that matter, at MIT after next year. He will no longer be seen running gallantly up the steps at 77 Mass. Ave., sometimes stopping to say "Hi" to someone he recognizes. He will no longer be seen eating lunch on the lawns of Killian Court on beautiful "spring-full" afternoons, while feeding the squirrels nearby. He will no longer be talking to his students about soap bubbles, or the importance of Athena, or about learning strategies. He will no longer be retelling childhood memories in class. And I ask . . . why?

Morgan will no longer be in charge of heading the Institute Colloquium Committee which was responsible for alleviating some of the social unawareness, or perhaps the ignorance of too many brilliant minds at MIT. He will no longer be found guilty of getting the MIT freshman out of his shell, and into an environment of trust and support that allows for true learning and enrichment. Never again will someone accuse him of wasting his time learning students' names, on the grounds that it doesn't matter who it is that responds to questions in recitation, as long as, of course, the correct answer is spoken. And I ask . . . why?

Thus, I am disappointed and frustrated. I am disappointed that the math department did not grant him tenure. I am frustrated because I think I know why. I believe teaching has never been MIT's priority, and with an open mind I question why the emphasis is placed on research. My opinion is that as long as there exists an undergraduate program at MIT, the emphasis should be put where it needs to be: on teaching. Having decided this on an administrative level, MIT then has the responsibility to me, and to the community, to hire and

give tenure to the best teacher, not necessarily the researcher with the most publications.

I agree that this is a question of values and priorities. I happen to be one who cares deeply about learning. But, I also accept the contrary view seemingly expressed by the math department, for MIT to house the best mathematicians in the world. If they truly believe this, then they must come out and state it without any ambiguities. And, at that juncture, they must then allow the MIT community to voice their opinions, and subsequently come to a decision.

Finally, I believe that MIT can be the home for the best teachers and the best researchers mankind can offer. I will only regret to see such a deeply committed individual as Professor Morgan not be given the chance to continue generating excitement in students' minds as he so exquisitely did in mine.

Marino D. Tavarez '87

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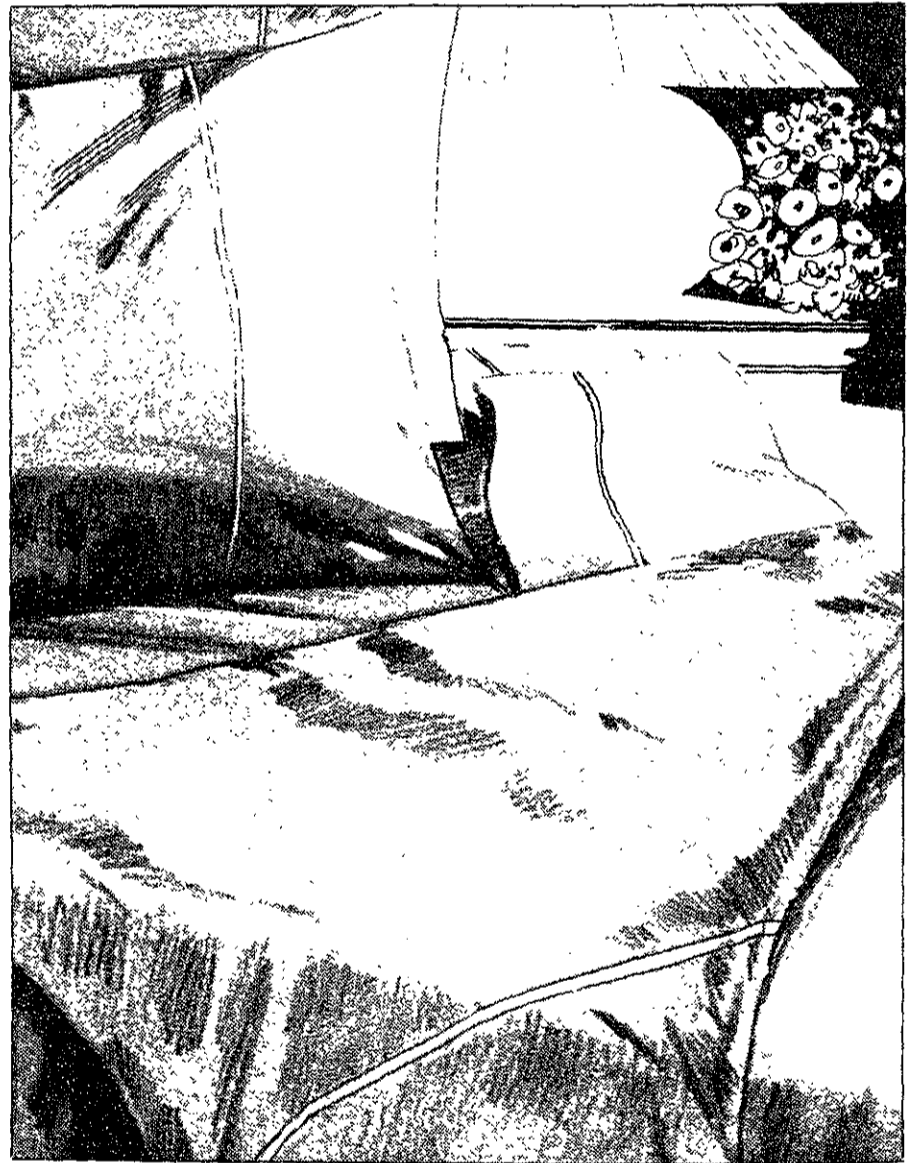
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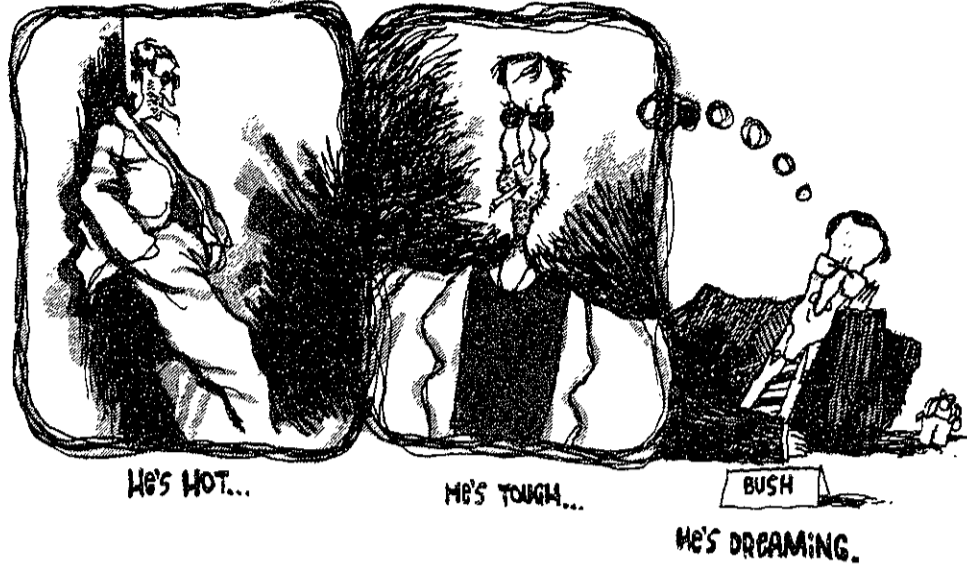
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opinion

MIAMI VICE PRESIDENT...



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Guest Column/Mark McDowell

Getting your words' worth

Speaking of 20 dollar words, have you heard the new children's poem that goes, "Illuminate, illuminate, tiny spheroid in the stratosphere..."? Surely we all know people who can pull five-pound words out of their hats, but how are we to decide if a word is actually a good word? Are 20 dollar words only 20 syllable words? Maybe not.

There are some words which have gone for years without the slightest amount of praise or recognition. Consider the word "respectively." Where would we be without it? "My grandfather and my uncle live in Ohio and Colorado, respectively." This statement would become "My grandfather and my uncle live in Ohio and Colorado, the former of the former living in the former of the latter, and the latter of the former living in the latter of the latter." Then take a deep breath.

Another prime example is "vice-versa." This is the educated man's alternative to "...and the other way around." Try to imagine yourself saying "Litmus paper turns red when dipped in an acid and blue when dipped in a base, or was it red when dipped in a base and blue when dipped in an acid?" So be grateful next time you find yourself peppering conversations with nifty time-savers like these.

There are other words which may secretly be 20 dollar words as well. Think about all the words that only exist in the negative. A doggedly ambitious woman may be deemed "ruthless," but a sweet little lady would never be called "ruth" or "ruthful." If that sounds a little strange, what about "inclement" weather? Would you ever think of a sunny, spring day as "clement?" Or picture the story line: "I approached

the dark and mysterious woman with an air of 'chalance'." Need more food for thought? Think about "non-plussed" and "non-sequitur."

Maybe the most supercalifragilistic words are short after all. Who knows? It's all part of the effort to "derstand" our language better!

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Institute seeks more blacks

By Donald Yee

The Admissions Office has taken a step to reverse the decline in black student enrollment through a letter urging black students at MIT to contact black applicants, according to Michael C. Behnke, director of admissions.

Less than four percent of the entering class this past year was black, a significant drop from previous years, when black students averaged about six percent of the freshman class.

Nation-wide, five percent of all college undergraduates are black, according to a 1984 Carnegie Foundation survey cited in the Feb. 5 *Chronicle of Higher Education*.

The number of Mexican-Americans, Puerto Ricans and American Indians enrolled at MIT has increased or remained constant over the past several years, Behnke said.

The number of black students admitted to MIT dropped over a period of several years, according to Behnke. In 1984, the number of black applicants fell to 226, down about one-fifth from previous years. "However, the quality of the applicant pool was high," Behnke noted. The number of blacks admitted that year remained the same, he added.

In 1985, the number of applications from black students remained low. "The pool of black applicants was not as good [in 1985] as it has been in past years," Behnke said. As a result of this decrease in the quality of the applicant pool, fewer offers

of admission were made to black students, and fewer enrolled.

Behnke advanced several reasons for the decrease in black enrollment. First, the recession of past years most hurt low-income families, many of which are minorities, he noted. Moreover, economic recovery has not touched these families. Attending an expensive private university then seems impractical for students from low-income families.

Black high school students also lack information on the availability of financial aid, Behnke said. He blamed the news media for emphasizing government cuts in financial aid instead of reporting on the continued availability of aid.

Behnke also described conditions peculiar to technical schools such as MIT. Technical corporations and academic institutions lack black role models for these students to follow, Behnke said.

The teaching of math and science in inner-city neighborhoods is generally poorer than in other areas, he added.

In order to offset these conditions, the Admissions Office has stepped up its efforts to recruit minorities, Behnke said. These steps include an attempt to get students involved in the effort through letter writing and recruitment at schools near their homes.

The Admissions Office is also trying to bolster minority enrollment by using the Student Search Service to locate more potential applicants, Behnke said. By fol-

lowing up on the initial mailings, the office hopes to induce responses from students who had not indicated any interest or who have difficulty completing the application, he added.

The Admissions Office encourages all applicants to apply for financial aid, Behnke continued. MIT can then simultaneously offer an aid package and an offer for admission, which may have a significant impact on the student's decision, he said.

The Admissions Office has formed an informal advisory group composed of students, faculty, and administrators to discuss options for increasing the number of minority applications, Behnke said. From this group, Behnke hopes to get ideas on how the Admissions Office and other administrative offices can make MIT more attractive to prospective minority students.

"Although we do not yet have a final count on applications this year... it looks much better," said Behnke. The number of black applicants for the Class of 1990 decreased by about five percent from last year, but applications increased from other underrepresented minorities. The Admissions Office will accept late applications from minority students.

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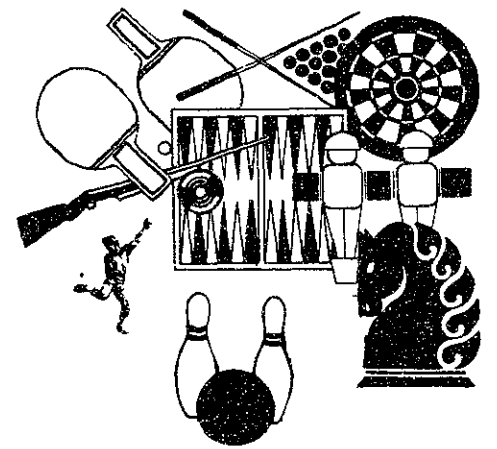
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Good luck at The New England Regional Tournament Held at Fitchburg State Feb. 22 and 23!

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Risking Sport Death on the road Effervescent Carlin lifts Reg Day to Mandalay blues

The Mandalay Restaurant, 143 First St., Cambridge — Across from Lechmere. Features Southeast Asian Cuisine. Price: \$10 - \$20/person.

The culinary joy of living in a fairly large city is the ability to dare. Burmese food? We didn't know anything about Burma — except that it's where *Bridge on the River Kwai* is set — but we entered the restaurant hoping to find out about Burmese national cuisine.

We quickly discovered that the Mandalay restaurant shines mainly as a bastion of overpriced indelicacies. The family decor and the simply appointed washrooms belied the eventual cost we would be forced to pay.

The food wasn't all that bad, but it was tainted by two things that we saw on the menu: the price, and the warning. The warning read as follows: "If you think our food tastes like soap! you are allergic to fresh coriander. Please eat around this favorite herb of Southeast Asian cooking."

Our waiter carried our order for *Beef with Fresh Coriander* into the kitchen. We figured that if it tasted like soap we wouldn't eat it. It tasted only slightly like soap: several of us in fact initially thought it was rather good. But there is a moral to attempting to "Sport. Death" in restaurants: The next day we were ill. "But it didn't taste like soap!" was our belated wail.

There was a difference of opinion over the appetizer: some of us thought that the *Sar moo Sar* was one of the best tasting, and most cost efficient of the dishes sampled. A sort of cross between dumplings and turnovers, they had an exotic taste which Chinese no longer has for many of us.

The true carnivores among us, appalled at the overwhelming amounts of vegetables covering trace quantities of meat, felt that the appetizer consisting of a shell enveloping minute amounts of beef and onions wasn't worth the \$3.50 per half-dozen price.

This appetizer was a indication of things to come. The first thought as the food approached our table was that the cost per unit eating (vegetables included) would be easily double that of our old standby — Chung's. The second thought is that the cost per unit eating (vegetables excluded) would be easily five times that of Chung's.

Let's be fair, I say. There were good parts of the meal. The *Coconut Khwasway* (\$6.25) was well acclaimed, except by two individuals who felt that it tasted like Lip-ton's Cup O' Noodles.

For those not used to real shrimp, I would warn you that this restaurant uses shrimp, not prawns ("jumbo shrimp"). However, the *Baby Shrimp with Hot Pepper* (\$8.95) was filled with shrimp, very spicy and very, very good.

The *Chicken Roast* was uninteresting and unfilling. The *Chicken Curry* received mixed reviews except for the agreement that it was too small, no matter how good it was. We also feel obliged to warn you against ordering the *Coconut Rice* as against the regular *Steamed Rice*: The only difference is \$1.

If you do decide to dine here, stick to the seafood — the cooks seemed uncomfortable with land animals. Those of us who enjoyed getting away from yet another in an endless series of Chinese dinners recommend sticking with the three-starred items; this is not a restaurant for those with delicate tastebuds, as the non-spicy dishes were rather bland.

The final "treat" of this meal was the check. We decided to pay with plastic, since none of us had sufficient green material to cover this outrageous experience. They took our plastic immediately, processed it, and left it sitting in a back room for twenty minutes.

They hadn't even supplied a magnifying glass with which to find the food.

Ronald E. Becker
Michael J. Garrison
Jonathan Richmond
Eric N. Starkman
Harold A. Stern
Ben Z. Stanger

George Carlin, with opening act musical comedy team Travis and Shook, Kresge Auditorium, February 3.

All of Registration Day's inevitable frustrations were forgotten when George Carlin and his opening act, Travis and Shook, sent their audience into hysterics. The evening began when Travis and Shook came on stage and sang a slow, mellow,

rhythm ("This song really illustrates what we hate about country music"), and Quiet Riot: a balladized "Come On, Feel the Noise." After a hilarious half-hour show, they relinquished the enthusiastic audience to Carlin.



George Carlin on stage at Kresge Auditorium.

Carlin started his show by saying "hello" in approximately twenty different ways. Much of his material came from the humor inherent in ordinary, everyday activities; for example, he attacked the custom of sending messages to one person through another, and he explained where lost things go while they're lost. Apparently, there's a huge pile in Heaven, and when you die, you get back everything you ever lost.

One of his funnier segments involved fake charities for which he was the spokesman. These included Illwill Industries, where they take donations of new stuff, tear it apart, and then sell it to poor people; and Big Brothers-in-Law, where a man with a scruffy beard and no job comes to your house and lives on your couch for two years. He also spoke very strongly on the subject of battered plants, expounding the psychological trauma caused by hanging plants and putting them in bathrooms.

The climax of the evening occurred at the very end, when Carlin pulled out his famous list of "impolite expressions." This list began years ago as the seven words no one could say on television, and has now grown to over 400 terms. It was incredibly hilarious — sorry I can't give you any examples. As he left after this, completing a show of over one and a half hours, I recalled his favorite phrase for goodbye — "May the forces of evil become confused on the way to your house."

Betty J. McLaughlin

Dr. Leung Kay Chi was born in Canton, China, and has spent most of his life studying in Taiwan. He is the son in law and favorite student of the late master Han Ch'in T'ang, from whom he learned Northern Shaolin, Ch'in-Na, and Yang style Tai Chi. Dr. Leung is also the Head Disciple of Grandmaster Liu Yun Chiao, who taught him Pa-Kua, Mi-Tsung, Pa-Chi, Pi-Kua, and Praying Mantis. Dr. Leung has had over 15 different teachers who have taught him over 10 systems. He is also a doctor of Chinese Acupuncture, Orthopedics, and western dentistry.



Master Harn Lin-Lin (Mrs. Leung Kay Chi) was born in Santung, China. She is the daughter of the famous Grandmaster Harn Ch'in T'ang and has strictly trained under her father since childhood. She has over 20 years of experience in teaching in Taiwan and the Philippines.

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Trudeau satire unsubtle, only medium-funny

Rap Master Ronnie, music by Elizabeth Swados, lyrics by Garry Trudeau, with Jim Morris as Ronald Reagan. Next Move Theatre, Boston.

Rap Master Ronnie is only medium-funny. It is supposedly satirical, but true satire revolves around raising consciousness. Garry Trudeau's creation is mostly superficial. Its skin-deep cavalcade of obvious jokes is good for producing a few belly laughs. But as a whole the show lacks in educational as well as in entertainment-value.

Beaumarchais' *Le mariage de Figaro* broke with the *commedia dell'arte* tradition by making us cry as well as laugh. No more were mere puppets dangled in front of us; even stock characters were intended to make us think as well as laugh.



A scene from Rap Master Ronnie at Next Move Theatre.

The best number in *Rap Master Ronnie* is "Self Made Man," strongly sung and acted by Jeff Lyons. It works because it bites with anger and stirs with pathos. Its penetrating picture of the homeless turns the viewer inwards to his own conscience.

"New Year's in Beirut" — sung by Jeff Bannon — is also telling because the stereotype soldier-away-from-home comes

through as believable. Good satire uses stereotypes to reveal truths about the real world.

Jim Morris has some good moments: He has nicely captured the posture and mannerisms of Ronald Reagan and is effectively made up to look alike. The standard of singing of the cast is generally quite good, and each of them has a few passages to savor.

But the lines they are given are unsubtle — as in a *commedia dell'arte* production we get little more than we expect, and the sterility and pointlessness of the whole enterprise makes us feel empty. To make matters worse, the music by Elizabeth Swados is bland and unoriginal. The band plays it well, but they cannot begin to res-

cue it from its mediocrity.

Ticket prices are not low (the cheapest is \$17.50, although students can get \$5 off

certain performances with the coupon carried in the production's advertising), and you can find far more interesting evenings elsewhere in Boston for less money.

Jonathan Richmond

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The American VocalArts Quintet will present a Valentine Day's program entitled "Wine, Women and Song," including works composed by women and about women and romantic love. Longy School of Music, February 14 at 8pm. MIT price: \$3.

BOSTON PREMIERE ENSEMBLE

Candlelight Salute to the Sun King

The Boston Premiere Ensemble, F. John Adams, conductor, will give their third annual candlelight concert, featuring soloists selected from a competition in January. The program includes works by Lully, François Couperin, Delalande and Charpentier. Church of the Advent, Boston, February 22 at 8pm. MIT price: \$5.

Tickets will be sold by the Technology Community Association, W20-450 in the Student Center. As opening hours are currently a bit sporadic, please call before you come. If nobody is in, please leave your order and your phone number on the TCA answering machine at 253-4885. You will be called back as soon as possible.

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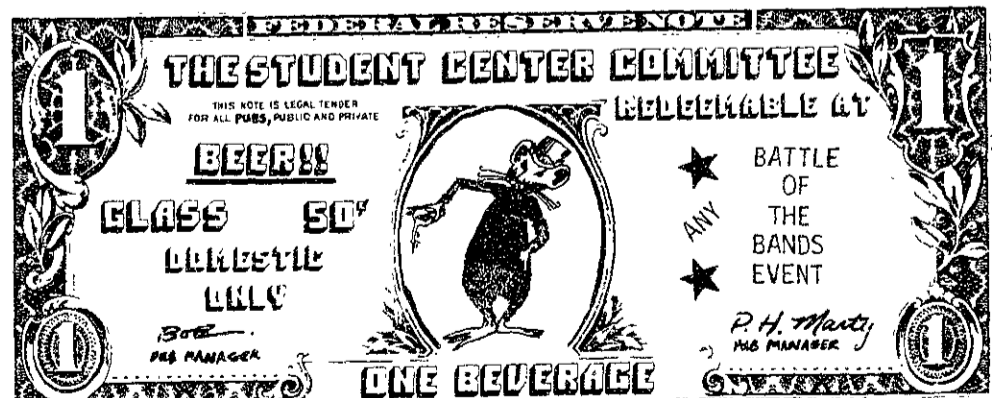
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Come find out what motivates the Student Center Committee to entertain the institute! PIZZA Meeting this Sunday, Feb. 9th at 7pm in W20-347 (the SCC Office). If there's a comedian or a band or a movie or any act at all that you want to see reach MIT, then become a part of the SCC and make it happen.

Snell and Nunn make a captivating picture

Seasoned performance from screen debutante

Lady Jane, directed by Trevor Nunn, starring Helena Bonham Carter and Cary Elwes, opening today at Copley Place.

The uncrowned queen of nine days, Lady Jane Dudley, née Grey, may seem an unlikely subject for a major cinematic release. But, says producer Peter Snell, Jane's story is both "one of the most moving love stories ever told" and a stirring tale of political idealism at a time when England was preoccupied with religion.

The cinematography is excellent. There is almost no studio work: both interiors and exteriors come from the great houses of Britain — including Eversholt Priory, where Jane and Guilford actually honeymooned.

With her short stature and round face, Helena Bonham Carter — making her first screen appearance at the age of 18 — can easily pass for Jane at 15, although she brings to her part the emotional maturity of a more seasoned actress.

Jane begins the film as a highly intelligent, bookish girl who mostly wants to be left alone. She is largely ignored by her father, who shows more interest in an enormous pair of hunting dogs. She gets more attention from her mother, who wishes to use her as a political pawn.

Jane has one friend in the world, the young, sickly Edward VI, whom she seems destined to wed, to her mother's deep satisfaction. The two truly care for one another, but his illness worsens to the point where marriage becomes unthinkable.

The ambitions of Jane's mother, and of the Lord Protector, John Dudley, lead them to arrange a marriage of their children, who have never met. Jane refuses, declaring petulantly "I don't believe that the king wants me to marry Guildford Dudley." They try to beat her into submission, but physical punishment is a waste of effort.

Eventually it is Edward who convinces her to submit to her parents' wishes, due to the king's misplaced trust in John Dud-



A scene from the movie, "Lady Jane".

ley. Guilford, Jane's husband-to-be, is a passionate youth, whose careless exterior hides a deep moral and political sensitivity. Guilford is the embodied opposite of the bookish Jane. It seems unlikely that they will ever have anything to do with each other; and they are at first content to leave it that way. But of course, they quickly fall in love, and find a deep respect for each others convictions.

These two lovers are wonderful together. Despite nearly a foot's difference in their heights, they manage to convince us that they were made for each other, opposite faces of the same coin.

★★★★★★★★★★★★★★★★

The two principals have the only unfamiliar names in this production. Director Trevor Nunn, the joint artistic director of the Royal Shakespeare Company, has drawn upon a crowd of RSC regulars to fill the supporting roles. Patrick Stewart is fine for the part of thoughtless father; Sir Michael Hordern appears as a sensitive-Catholic advisor to the Scotch Mary. And John Wood is properly loathsome as the manipulative John Dudley.

★★★★★★★★★★★★★★★★

Two problems: the first concerns the nature of the relationship between Jane and Guilford. Jane's metamorphosis from a scholar who may have once read something about sex, into a deep and passionate lover is utterly and unbelievably instant.

Secondly, there seems to be too much cutting between parallel scenes. I understand this is suppose to inject a bit of irony, but when Dudley declares that his son is no doubt "in his books, or perhaps at prayer", the focus shifts too predictably to Guilford's gaming and drinking in the Southwark stews.

Overall, producer Snell and director Nunn have conspired to make a captivating picture: Go see it!

Julian West



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Dramashop excels — Anouilh play not to be missed

MIT Dramashop presents *The Cavern (La Grotte)*, by Jean Anouilh. *Kresge Little Theater*, February 7, 8, 13, 14, and 15 at 8 pm, and February 9 at 2 pm. Admission \$5, \$4 for students.

I walked into the Dramashop production of *The Cavern* with much apprehension. I am wary of tragi-comedies that have been translated from a foreign language. As I entered the theatre I realized that this was a play to be reckoned with. The set shone with a brilliance all its own.

The set lacks no details. It is built in four layers, although only three can be seen. The upper level, representing the drawing room of the Count (Brian Pierce) and Countess (Kerry O'Neill '86) are done in bright colors and gives a fantastic impression of finery. The lower level, the kitchen — "the cavern," by the author — is done in fabulous detail. The dark colors provide the dismal mood important to the impression of a deep cellar.

As one should not judge a book by its cover, one should not judge a play by its set. Indeed, the character of the Author (Wayne Heller '86) suggests in the text of the play that a fancy set's sole purpose is to cover up for shoddy acting and a poor script. Not so here: The set (by William Fregosi) is an indication of things to come.

The program presents the large size of the cast as a difficulty in the production of Anouilh's works, but the actors and the director overcame the difficulty. The result is spectacular. The full complement of 17 characters fills the stage with an eye-catching display.

The actors performed almost flawlessly. There were a few more mis-pronounced and fumbled lines than I would like, but I believe most of these can be chalked up to opening-night jitters.

Unfortunately, when there are so many characters in a play some must be willing to accept the role of a minor character. The minor character adds spice to a show, maintains the entertainment. Often they are eliminated from reviews for lack of anything to say about them. I will bypass that difficulty by saying that I wish I saw more of the pompous Baron and Baroness

Jules (Michael Malak '89 and Julie Theriot '88), the Nurse (Anjali Sastry '86), the Count's children (John Michael Shea and Emily Donaldson), the sultry, but caring chambermaid (Jean Alpers '86), and the drunken coachman (Matthew McCarty '89).

Two characters, although stereotypes,

provided hilarious comic relief. The butler (G. Albert Ruesga G) performed a superb job of false age. The make-up he wore to look well over 80 was extraordinarily well done, but it would have gone to waste were it not for his talent in acting the part. The other comic figure was that of the Police Commissioner (Brian Linden '88). He

deserves the highest praise for his ability to maintain the melodramatic policeman attitude throughout the performance. He was consistently funny.

Perhaps you are tiring of my adulatory praise of this play. But it really was *that* good. However I give you a ten minute intermission here. Go stretch out in the lobby and come back to finish this review (or skip to the end for my final comments).

* * * *

The most reserved of the characters is the Seminarian (Derek Clark '89). Not yet a priest, he must decide on his role in life. Clark plays this character with a fine hand. He is simultaneously timid and full of strength. A good sense of presence is required to do this well, and in this Clark was eminently successful.

The plot of the play centers around the difficulties of servant life that the two heroines of the story face. The cook, Marie Jeanne (Sue Downing Bryant '86) is angry with the world, and doesn't hide this opinion: She's as loud as she can be. Adele, the kitchen maid (Amy Dewling Mitchell W'88) is much more reserved, but suffers from the same feelings of self-degradation because of her position as servant. Mitchell is able to transform herself from the shrinking violet to a character full of rage.

Though straight drama, this show includes a chamber music group. At points the music overpowers the speaking voices of the actors, but this happens infrequently. The group performed the background music well, even the acting they did during the intermission exuded a sense of bravura. They were: on the flute, Astrid Kral '89, on the piano, Ella Atkins '88, on the cello Richard Gotlib '86, and the clarinetist was Michael Lauer G.

Well, here I am. I have written too much for the average person to read about a single play. In case this is the only paragraph of my review that you read, let me make clear that this is a show not to be missed. I hope that the Dramashop sells-out the remainder of the shows. They will enjoy the full audience and the audience will enjoy the play.

Ronald E. Becker



A scene from the play *The Cavern* by Anouilh

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New Massachusetts law against hazing practices

(Editor's note: the following is the text of the Office of the Dean for Student Affairs handout detailing the new law against hazing.)

HAZING — PROHIBITION CHAPTER 536

AN ACT PROHIBITING THE PRACTICE OF HAZING

Be it enacted by the Senate and House of Representatives in General Court assembled, and by the authority of the same, as follows:

Chapter 269 of the General Laws is hereby amended by adding the following three sections:

Section 17: Whoever is a principle organizer or participant in the crime of hazing as defined herein shall be punished by a fine of not more than \$1000 or by imprisonment in a house of correction for not more than 100, or by both such fine and imprisonment.

The term "hazing" as used in this section and in sections 18 and 19, shall mean any conduct or method of initiation into any student organization, whether on public or private property, which wilfully or recklessly endangers the physical or mental health of any student or other person. Such conduct shall include whipping, beating, branding, forced calisthenics, exposure to the weather, forced consumption of any food, liquor, beverage, drug or other substance, or any other brutal treatment or forced physical activity which is likely to adversely affect the physical health or safety of any such student or other person, or which subjects such student or other person to extreme mental stress, including extended deprivation of sleep or rest or extended isolation.

Section 18: Whoever knows that another person is the victim of hazing as defined in section 17 and is at the scene of such crime shall, to the extent that such person can do so without danger or peril to himself or others, report such crime to an appropriate law enforcement official as soon as reasonably practicable. Whoever fails to report such crime shall be punished by a fine of not more than five hundred dollars.

Section 19: Each secondary school and each public and private school or college shall issue to every group or organization under its authority or operating on or in conjunction with its campus or school, and to every member, plebe, pledge or applicant for membership in such group or organization, a copy of this section and sections 17 and 18. An officer of each such group or organization shall sign an acknowledgement stating that such group, organization or individual has received a copy of said sections 17 and 18.

Each secondary school and each public or private school or college shall file, at least annually, a report with the Regents of Higher Education, and in the case of secondary schools, the Board of Education, certifying that such institution has complied with the provisions of this section and also certifying that said school has adopted a disciplinary policy with regards to the organizers and participants of hazing. The Board of Regents and in the case of secondary schools, the Board of Education shall promulgate regulations governing the content and frequency of such reports, and shall forthwith report to the attorney general any such institution which fails to make such report.



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Law makes hazing a crime

(Continued from page 1)

teams, and dormitories, Sherwood commented.

Common Institute practices such as freshman shower night could be affected by the new law, Sherwood said.

"There are those who say that it [showering] is a tradition and that everyone participates in a spirit of good fun, but if an individual is being victimized against his will, he will now be able to press criminal charges," Sherwood continued.

Sherwood is planning meetings with dormitory presidents to discuss the ramifications of the new law.

The origin of the law can be traced to the death of a student two years ago at the American International University in

Amherst, MA, Sherwood said. Students and civic organizations are likely to press for laws preventing hazing incidents when a major casualty results, he explained.

The new law will be effective in preventing hazing incidents, Sherwood predicted. "National and local fraternities will fear criminal and civil prosecution," he predicted.

MIT had no input into the text of the law, although the Institute was aware that the law was pending before the legislature, Sherwood said.

"Hazing legislation has come up annually for about the past five to ten years and been rejected each year," Sherwood said. "There was actually some surprise that it passed [this year]."

Sherwood was concerned about the difficulty of requiring every student to sign for a copy of the law.

He would also like to revise the language of the law to make the definition of hazing clearer, he said.

Currently, the text of the law has a discrepancy over who is affected by the law, Sherwood pointed out. One section of the bill defines hazing as an act connected solely with fraternities' "pre-initiation activities." However, another part of the law describes hazing as a broader crime of physical and mental abuse, Sherwood added.

Sherwood is one of four administrators from private universities appointed by the Massachusetts Board of Regents to the Board of Regents Committee on Hazing. The committee will aid the Board of Regents in promulgating the law and smoothing out inconsistencies and administrative problems caused by the law, the dean continued.

Administrators from Boston College, the University of Massachusetts, and Framingham University are also members of the committee.

UA resolution calling for tenure policy study

(Editor's note: The following is the text of the resolution on tenure passed by the Undergraduate Association Council on Jan. 23.)

We, the members of the Undergraduate Association Council, feel that the Schools of the Institute have not given sufficient emphasis to teaching ability in promotion and tenure decisions.

Noting that MIT is an educational as well as research institution, and whereas section 2.21 of *Policies and Procedures: A Guide for Faculty and Staff Members*, specifically calls for "review and evaluation of teaching and other contributions" as an integral part of the academic appointment process, we are distressed at the recent failures of MIT to award tenure to faculty members whose truly exceptional teaching ability has been acknowledged by the MIT Community through various distinctions such as the Everett Moore Baker Foundation Award for Outstanding Undergraduate Teaching.

Furthermore, we resolve that the Undergraduate Association Council and the Student Committee on Educational Policy shall investigate the current appointment procedure, and do further call upon the faculty and administration to investigate and re-evaluate this process with an emphasis on the role of teaching ability.

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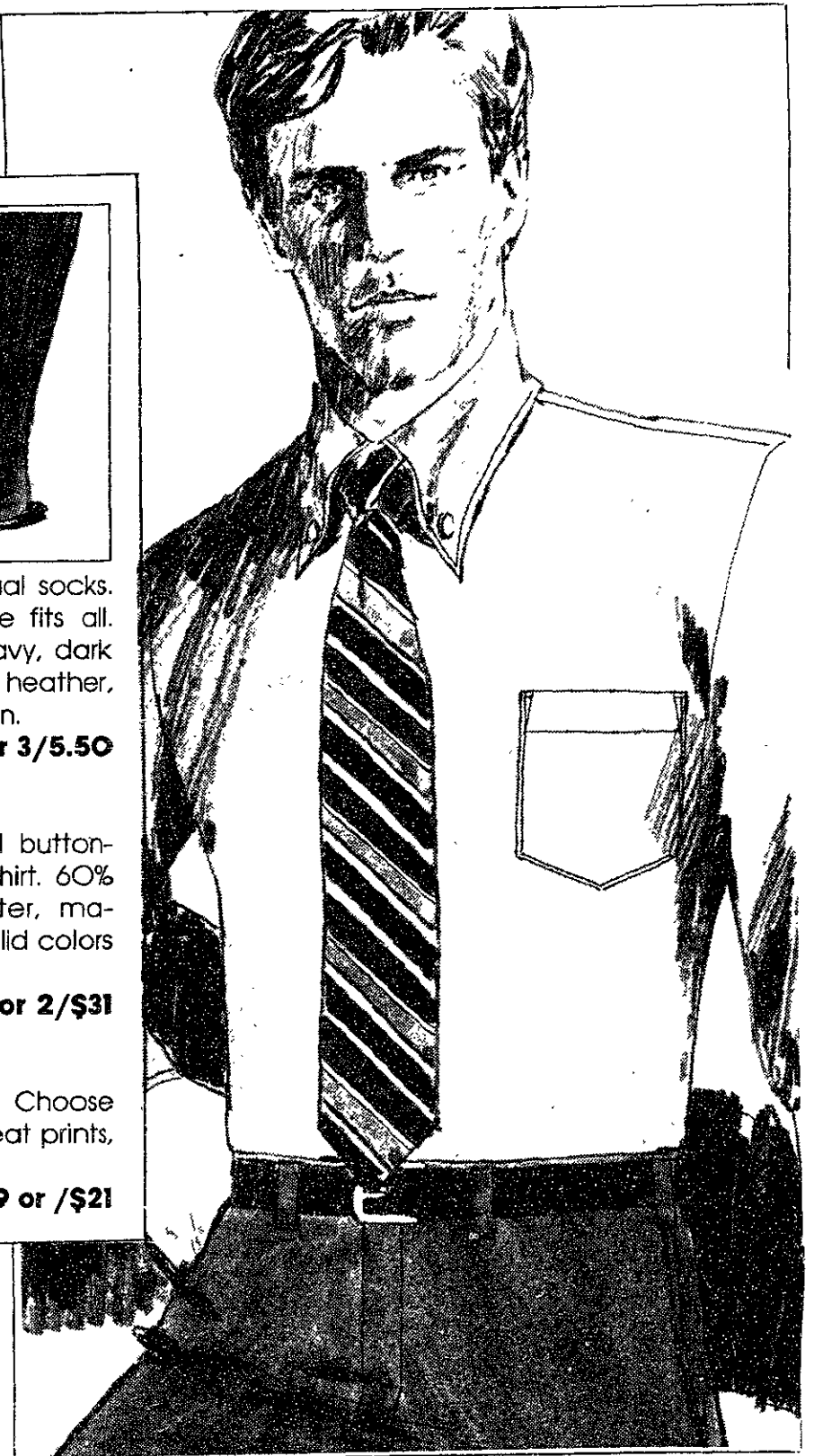
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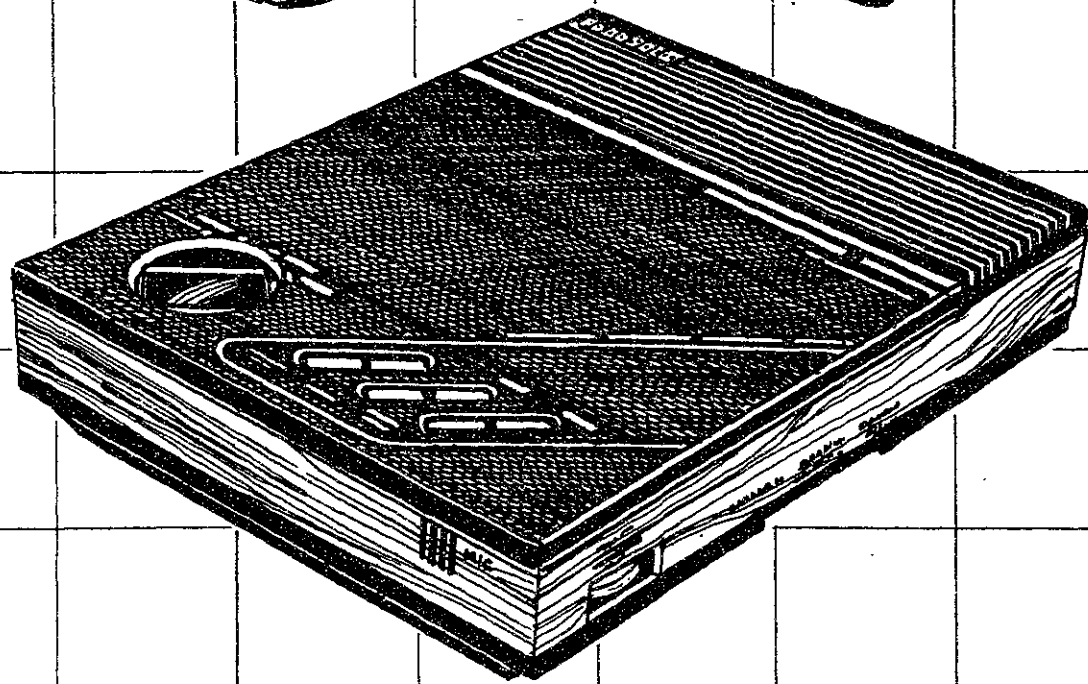
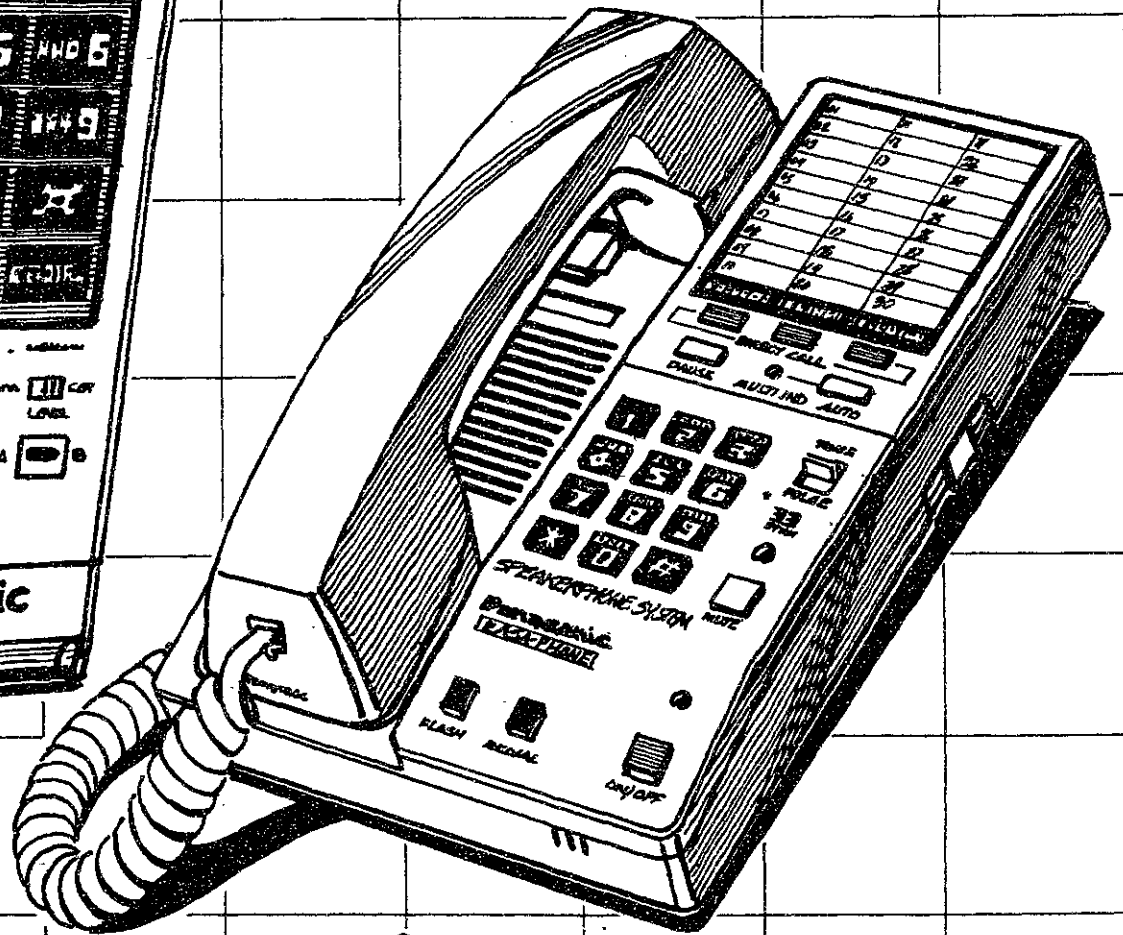
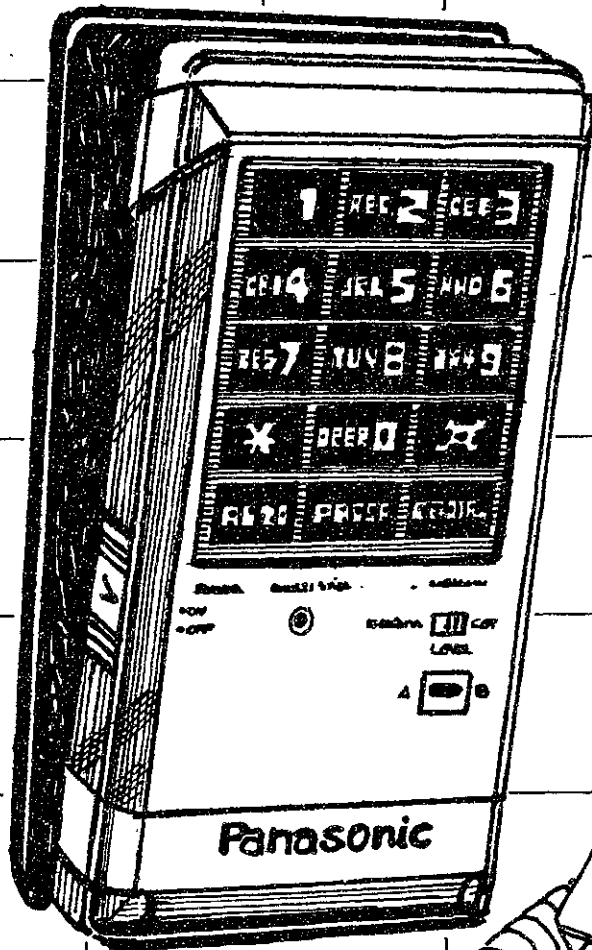
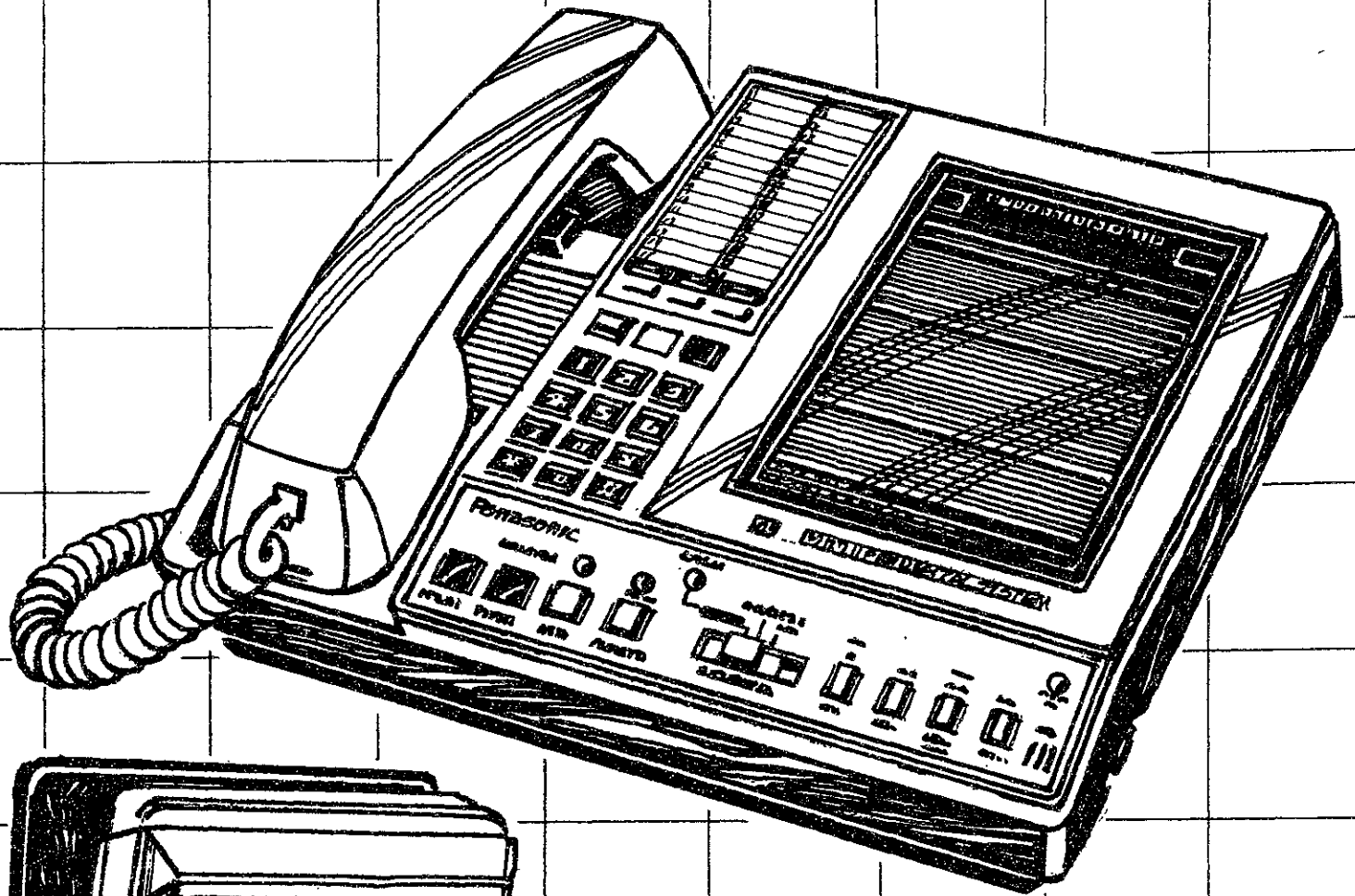
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Stanford engineering reduces requirements

By Mathews M. Cherian

After a two-year curriculum review, Stanford University has reduced its undergraduate engineering degree requirements, according to Gil Masters, Stanford's associate dean for student affairs in the School of Engineering.

The Undergraduate Council, composed of 24 faculty members, restructured and tightened a number of courses to focus on engineering fundamentals, according to Bob Eustice, associate dean for academic affairs in the School of Engineering.

The council analyzed the curriculum over a two-year period, Masters said. Stanford had not reviewed its engineering curriculum for 15 years.

Stanford, which follows a quarterly academic calendar, requires 180 units for a bachelor's degree. The university cut a total of ten units from the engineering requirements, Eustice said.

"It was as low as we could go and still maintain accreditation," Masters said.

An increase in university requirements sparked the curriculum review, Masters said. In recent years, Stanford had strengthened its distribution requirements. This limited the number of electives students could take.

But the most recent addition of a foreign language requirement brought the situation to a head, according to James Adams, head of the Values, Technology, Science, and Society program.

Some students entering Stanford now had to spend 177 out of their 180 units to fulfill university and engineering school requirements, according to Masters.

"The humanities requirements changed, and we reacted to it," Masters said. "The university has been requiring more of students than ever before."

Under the new curriculum, the minimum requirements for the engineering degree total 107 units. University-wide requirements add another 60 units.

Students can create own program

The School of Engineering also introduced a new option that allows students to design their own majors.

The new degree is designed for students who want a technical background but do not plan to pursue engineering as a career. It is also aimed at students who want to major in an engineering discipline not specifically offered by Stanford.

Many of the students choosing this major plan to attend business school, medical school, or law school, Masters said.

Stanford views the undergraduate engineering degree as providing a basis for technical skills. "The first degree to really practice engineering is the Master's degree," Eustice said.

The School of Engineering is trying to promote this view, but students are still lured away by high starting salaries for engineers with bachelor's degrees, Masters commented.

The changes have met with "enthusiastic acceptance," according to Masters. A number of seniors are choosing to graduate under the new requirements. The department is also beginning to see proposals for personally designed majors.

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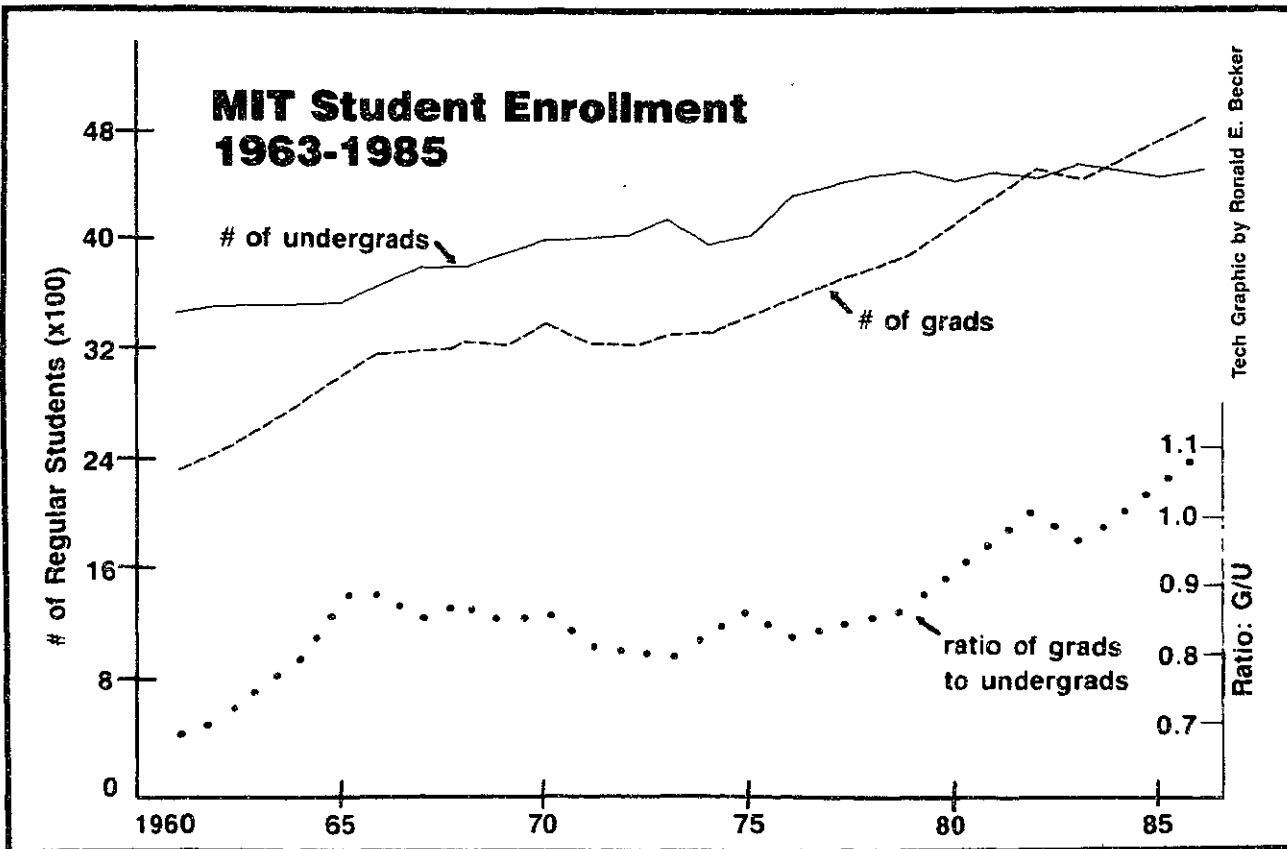
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Time: 5:00 p.m. to 7:00 p.m.
Place: Room 2-146
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So be there, February 11th, and keep your calendar clear Monday, February 24th, too. That's when Teradyne will be holding on-campus interviews. Details to follow.

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TERADYNE



Perkins studies grad schools

(Continued from page 1)

served time and attention to undergraduates," said Dean for Undergraduate Education Margaret L. A. MacVicar '65, in *Tech Talk*.

"Undergraduate education is the force that brings us together — the centripetal force that defines our center," MacVicar said.

No central authority on graduate enrollment

Perkins started examining the growth of the graduate student population because some departments are apparently unable to handle the size of their graduate population. MIT has no centralized planning of the overall size of graduate enrollment, he said.

Perkins attributed part of the population growth to the expansion of research activities at MIT. As research activity increases, the support available for students increases, as does the need for graduate students, Perkins explained.

Research growth alone does not explain the enrollment increases in all departments, Perkins stressed. Some schools, such as the Sloan School of Management, have made conscious decisions to expand regardless of research levels, he said.

Some of the growth in the graduate student population results from the fact that obtaining a graduate degree requires a longer stay at MIT, Nell said.

From 1968 to 1984, resident graduate enrollment has increased by 36 percent overall. However, individual schools have experienced varying growth rates:

- The School of Architecture and Planning: 173 percent;
- The Sloan School of Management: 61 percent;
- The School of Engineering: 36 percent;
- The School of Humanities and Social Science: 25 percent;
- The School of Science: eight percent.

Quotas no longer used

After World War II, rapid growth in graduate enrollment caused the MIT administration to set student quotas for each department, Perkins said.

This rapid growth came to an end in 1965, he continued. In 1973, MIT finally abandoned the quota system, wrongly believing

that the enrollment would remain stable, Perkins said.

The graduate school has thus experienced large growth with no one in a position to decide whether such growth is desirable, he added.

Nell and Perkins agree that quotas should not be reinstated.

"I haven't heard anyone argue for firm quotas," Perkins said. "I don't think quotas would work given the decentralization of the departments."

Department heads should consider the enrollment data, Perkins suggested. "It is a matter of consciousness raising," he said.

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ON CAMPUS INTERVIEWS

Tuesday
March 4

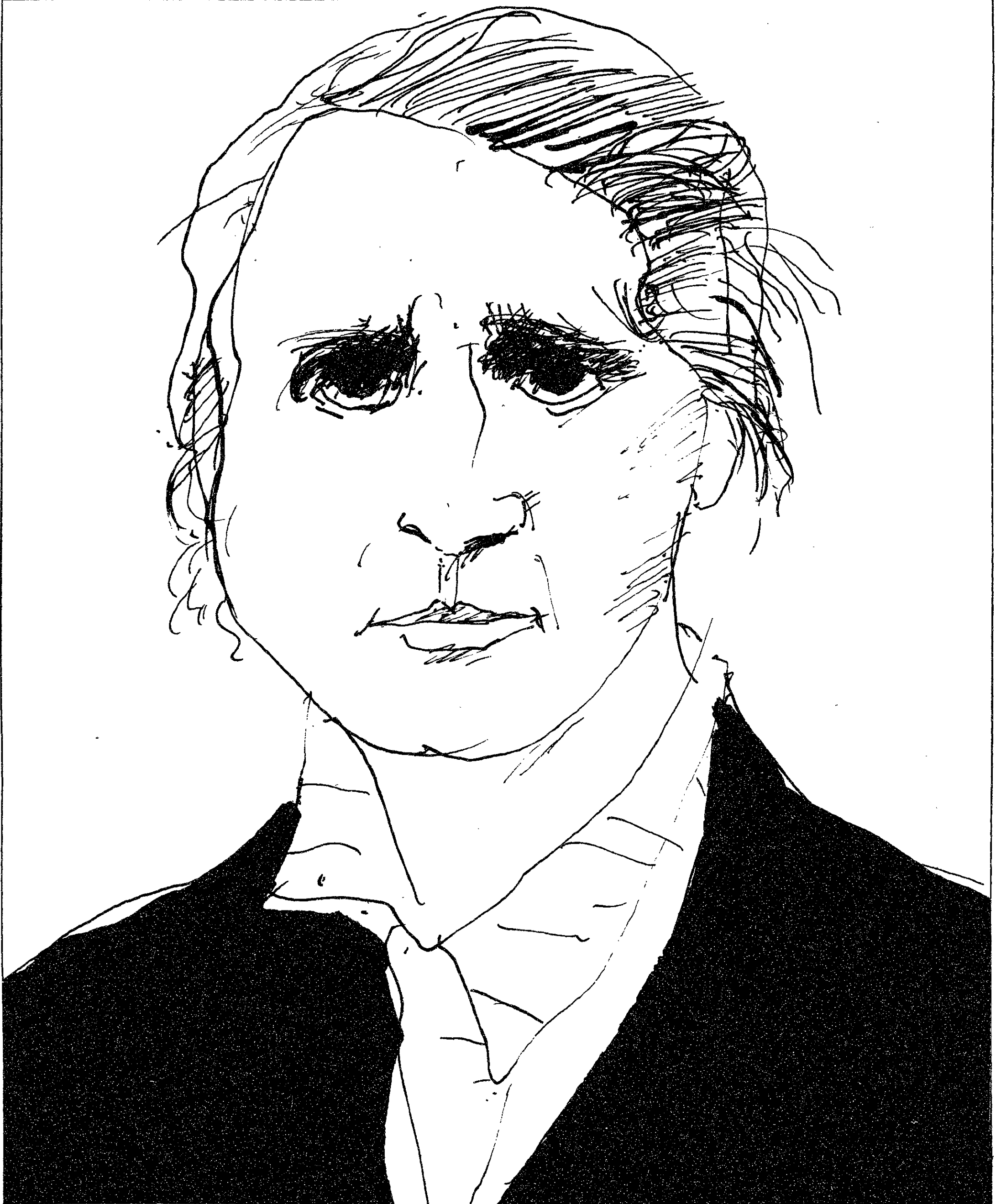
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Grades available to professors

(Continued from page 1)

Randolph said he had not heard of any abuses of the grade reports. All of the housemasters interviewed by *The Tech* claimed they used the reports with discretion.

But housemasters differ in opinion on how the grade reports should be used. Some share select reports with hall tutors; others feel this would be a violation of privacy.

The reports are useful as indicators in cases where students' grades suddenly drop, most housemasters agreed.

Professor Julian Beinart, housemaster of Burton House, would suggest to tutors that some students might have problems. "Housemasters and tutors have some responsibility for the residents," Beinart said.

"I can imagine housemasters interpreting it [the use of grade reports] differently," he added.

Professor Daniel N. Osherson, East Campus housemaster, reviewed the reports along with junior housemaster Brian K. Harvey '69 and identified students who had problems, he said. "I intend to discreetly ask them if there is anything I can do."

Osherson "certainly [would] not" share the reports with tutors. He was unconvinced that releasing grades to housemasters is helpful, he added.

Schwartz said, "Except in the event of some really dire trouble, I mind my own business." A housemaster is in a position to be an academic advisor, he added. All advisors use their own judgment in dealing with grade reports, he said.

Professor Harald A. T. O. Reiche, housemaster of Baker House, emphasized that the grade reports were secure. "I keep them on hand in a locked cabinet," he said. "I only consult

them if there is a grave matter."

Tutors may examine particular reports, Reiche said. "When we discuss individual cases, then the tutor concerned is allowed to view the reports in my presence."

Reiche supports the idea of allowing housemasters to see students' grades. "A housemaster should be in a position to help and support," he said.

The grade reports were "a very low-level thing," said Professor Margery Resnik, McCormick Hall housemaster. She would examine the reports and speak to students with problems. Resnik never showed the reports to anyone, she said.

"There are some students who might underperform," said Professor Borivoje B. Mikic, housemaster of 500 Memorial Drive. "I would like to know if there is some area of trouble," he contin-

ued. Any contact with students was done discreetly, Mikic emphasized.

The grade reports are used "just to try to identify students who are having real trouble or a rapid transition [downward] in grades," said Professor Robert S. Kennedy, housemaster of MacGregor House. "If the grades are low and consistent we don't say anything about it," he added.

Associate Provost S. Jay Keyser, housemaster of Senior House, said grade reports were used "simply as a flag." He considered the grades private. "I think that their circulation ought to be restricted," he said.

The reports were "not much use," said Margaret Keyser. They are "a thermometer of individuals," she said. She would ask tutors about student problems, she added.

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MIT Student Center

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Reagan names MIT professor to shuttle panel

(Continued from page 1)

of the Center for Aerodynamic Studies, headed a government committee in the late 1970s to review the shuttle's main engine. Last July, Covert participated on a panel which investigated the failure of a temperature sensor in the space shuttle.

Covert completed his undergraduate education at the University of Minnesota and received his doctorate in aerodynamics. He became an MIT professor in 1963.

Panel to study shuttle booster

Covert joined the panel last night after the panel's first meeting yesterday. The opening discussion focused on Challenger's right-hand solid rocket booster, which produced an abnormal plume of fire just before the blast, the *Associated Press* reported.

None of Challenger's booster components had been used more than three times, said Jesse Moore, the acting director of NASA's shuttle program. But the booster systems are designed to be used up to 20 times, he said.

Some members of the panel asked whether the cold weather could have affected the solid rocket boosters, according to the *Associated Press*.

NASA experts had examined the effects of low temperatures a day before the launch and concluded that they were not a "matter for potential concern," Moore said.



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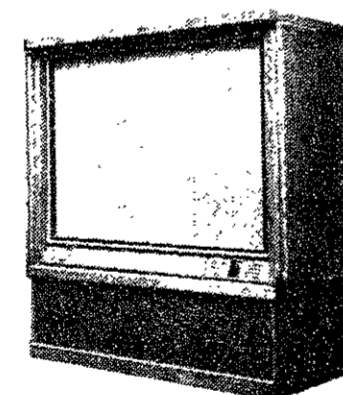
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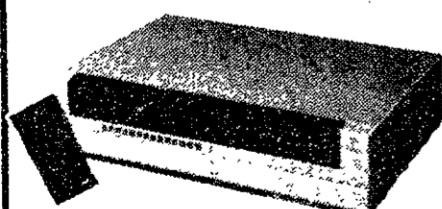
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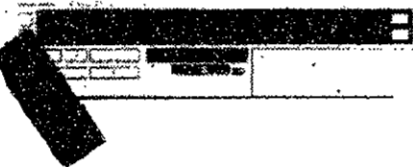


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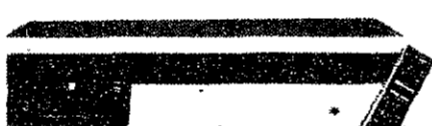
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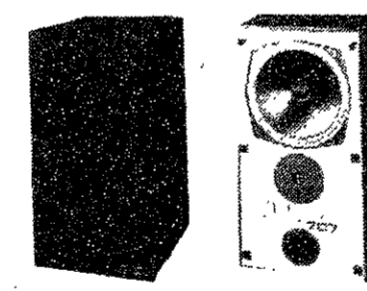
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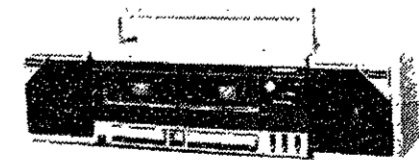
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MIT gymnastics squads capture tournaments

By Madeleine Biber and Eric Reifshneider

The men's gymnastics team raised its record to 6-0 Saturday with a victory over the University of Vermont Saturday. MIT scored a season high 206 points, coming close to the MIT record of 209.5.

Individually, co-captain Brian Hirano '87 had his best day of the season, scoring 8.0 or better on five of the six events. His 47.85 total, equalling the school record he set last year. Brian's

most spectacular maneuvers are double back flips on floor, rings, and high bar, and a piked Tsukahara vault.

Co-captain Rick Campione G scored 8.6 on rings and 7.45 on parallel bars, with double back flips on rings and high bar. Jeff Mann '86 and Steve Betz received high marks (7.8 and 7.5, respectively) for their high bar performances.

Among its six victories, the Division III team has defeated five

Division I schools, including Harvard, Dartmouth and Yale.

The men's team will meet Lowell University at 1 pm in Dupont this Saturday. Team Coach Fran Molesso called the upcoming meet "our biggest meet of the year."

Women avenge losses to RIC

The MIT women's gymnastics team beat Rhode Island College (RIC) with a score of 131.4 to 122.9 on Saturday. The team's

score was also the highest of the season and repaid RIC for its two victories over MIT last year.

The MIT gymnasts all showed fine, polished routines. Catherine Rocchio '89 easily won the all-around, scoring 29.6. She also won on the beam and floor while placing second on vault and bars. Her artistic floor routine to "Georgetown" from "St. Elmo's Fire" included a back layout with a full twist along with some dance elements. Her floor performance was the best of the meet, scoring a 7.9.

Evie Vance '86 took second place all-around with a 27.35.

Evie performed extremely well as she won bars and tied for third on floor. Linda Lee '86 placed third on bars and performed well in the vault. She had a solid beam routine in her last competition for MIT. Hillary Thompson '87 continued to improve her floor routine, taking second place with a 7.4 in that event.

Next Saturday the women's team will travel to Salem State College.

(Editor's note: Madeleine Biber '86 is co-captain of the women's gymnastics team. Eric Reifshneider '89 is a member of the men's team.)

Hockey skates past Huskies

By Steve Sisak

The MIT men's hockey team continued a three game winning streak Wednesday night, defeating the Huskies of the University of Southern Maine 6-4.

The teams played neck and neck for most of the first period, with Alex Jessiman '88 scoring the opening goal for MIT after ten minutes of play. With less than two minutes to go in the period, USM scored twice in 30 seconds, giving them the lead, 2-1.

The USM lead did not last long, as Dave Koch '86 — with his first goal of the season — tied the score 15 seconds later.

The Engineers came on strong during the second period, with David Pehlke '86, Jim Rutherford '87, and Jessiman each scoring goals. Meanwhile, the defense held USM to only three shots on net.

During the third period, MIT held out against USM's two-goal rally which brought the visiting team within one goal of a tie. With just over five minutes to go in the game, Jessiman completed a hat trick to seal the Huskies' fate.

The MIT season started off slowly; after winning the season opener against Hartford, they

suffered back-to-back losses to USM and Tufts.

The first major turning point for the team was last month's 3-2 loss to Curry. The Engineers played an extremely close game, proving that they were a good hockey team.

MIT came on strong with a 6-5 overtime victory over the University of Rochester after two injury-ridden defeats. They followed this with a decisive win over WPI this past weekend.

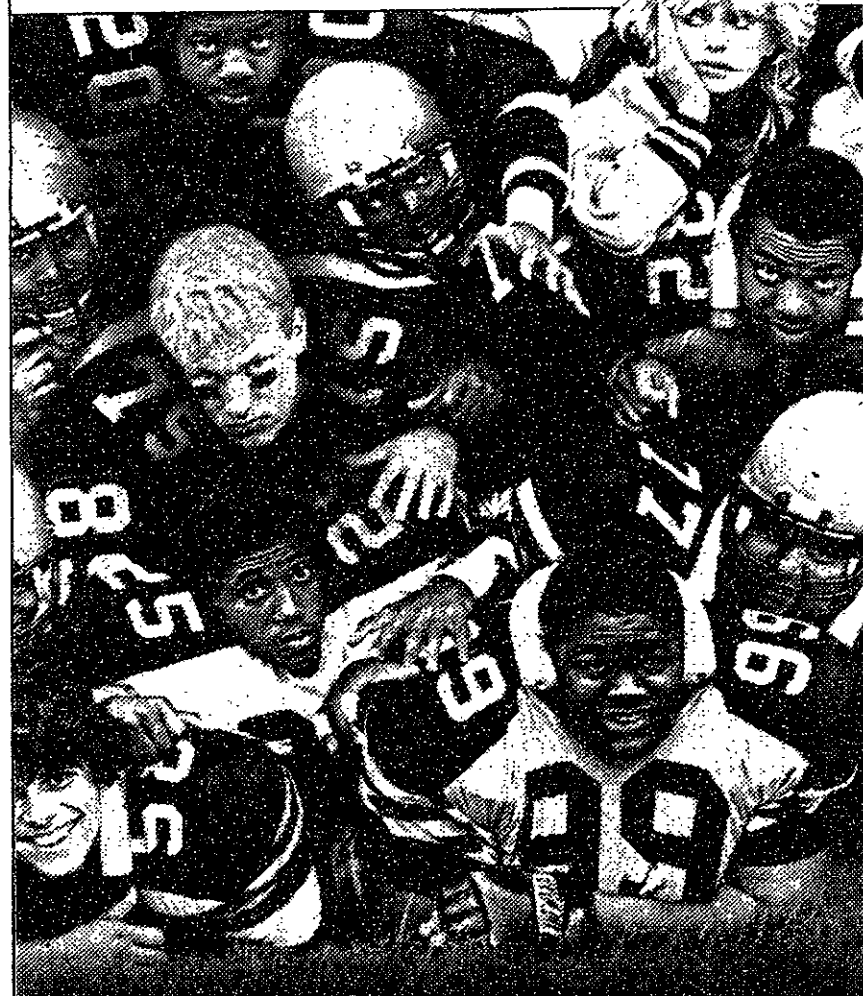
(Editor's note: Steve Sisak is manager of the hockey team.)

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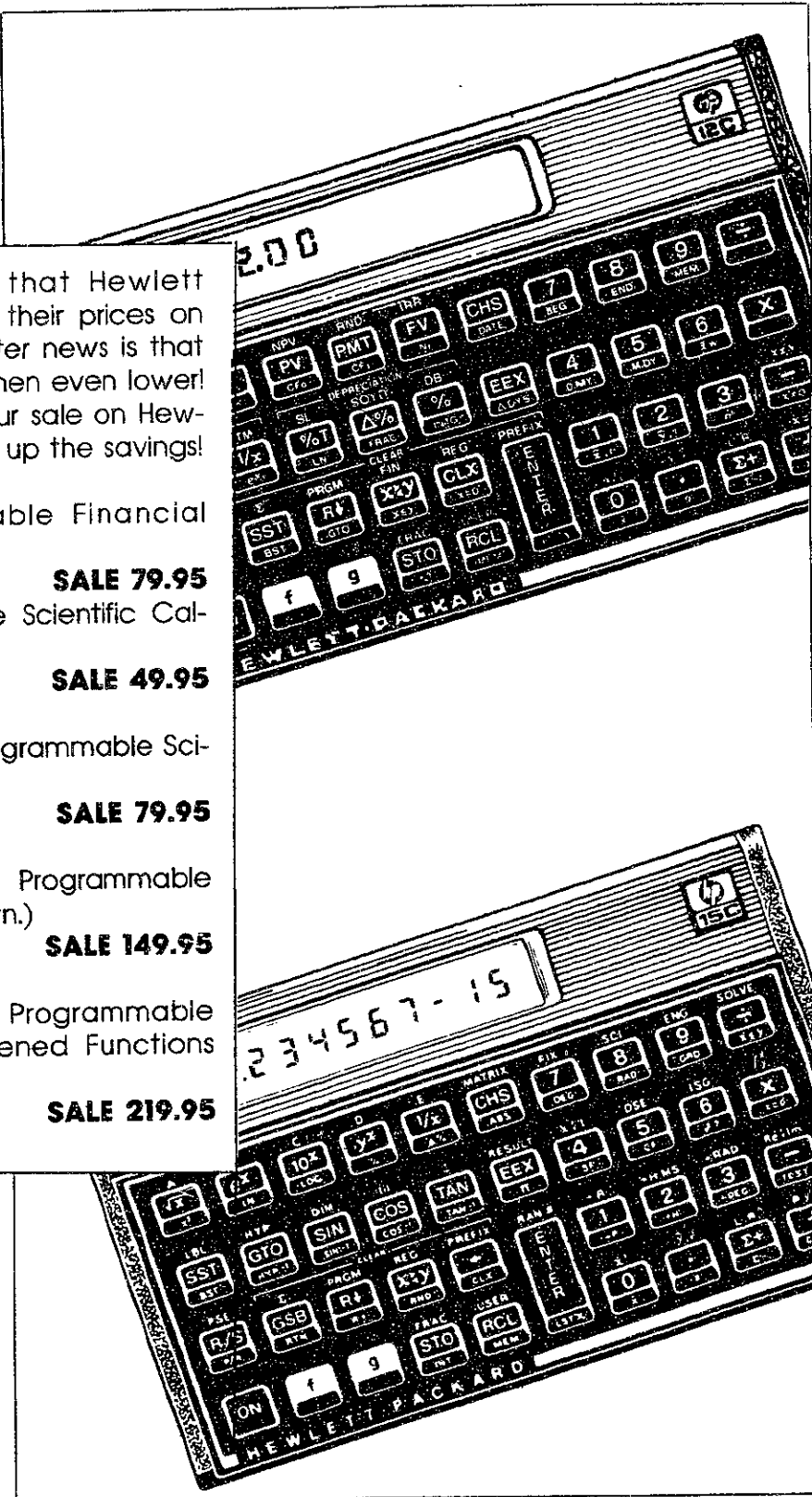
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sports

Wellesley edges MIT B-Ball

By Alison C. Morgan

The Engineer basketball team lost a heartbreaker at Wellesley College 57-53 Tuesday night, in a game that was undecided until the final minute. "It's tough to lose the close ones," said a disappointed MIT coach Jean Heiney.

Wellesley scored the opening points of the night at the line. Wellesley's Paula Andrews was accurate for six consecutive hoops, giving her team a lopsided 9-2 score.

The scoreboard remained stuck at 11-4 for five minutes as both teams exchanged missed baskets. Then the game became the Lisa Murphy Show as the Wellesley hoopster adjusted in midair for a string of four, boosting Wellesley's lead to 26-16.

Wellesley standout Murphy hounded Martha Beverage '87 on defense all night. When a determined Murphy finally triumphed with a steal, Beverage was swift enough to take it right back.

Wellesley continued to pour it on until an MIT run in the final minutes of the first half. Grace Saccardo '86 swished the buzzer-beater before halftime, and also made the first basket of the second half. Wellesley's lead was suddenly cut to four, 34-30.

An alert Irene Gregory '88 followed up her own shot and the difference remained at four

points, 36-32. Gregory consistently played intense defense, forcing a total of four jump balls.

Wellesley was unable to convert on the next play and Beverage went coast-to-coast to make it a two point game. Unfortunately, MIT's deadly center combo of Darlene Dewilde '88 and Judy Maurant '87 couldn't contain Wellesley's Del Akins. She was good for two and expanded Wellesley's lead to six, 40-34.

MIT then capitalized on two Wellesley turnovers to pull within two points, 40-42. Saccardo touched it off the glass to tie the game for the first time at 42-42.

Wellesley kept control of the game until Maurant hit from downtown and brought MIT within one, 49-48. Wellesley answered back but Maurant wasn't finished — Tech was again behind by only two.

Beverage stole the ball and laid it in to give MIT the lead, 52-51 at the two-minute mark. Biz Williamson '86 was fouled while vacuuming the boards on the next play. She made one of two and the Engineers were ahead, 53-51.

Wellesley tied the game on the foul line with 48 seconds to play. Taking advantage of an missed MIT shot, Wellesley snatched back possession with 22 seconds

on the gameclock. They worked the clock down to five seconds — and then hit the go-ahead basket.

Wellesley was ahead for good as the nervous Engineers threw the inbounds pass out of bounds. Wellesley delivered the *coup de grace* with two superfluous free throws to win the game, 57-53.

Coach Heiney was pleased with her team's second half effort, despite the Engineers' ending up short. "We were much better in the second half," she admitted. "Our offense was more disciplined."

Tuesday — at Wellesley

Engineers (53)

	FG	FT	Rb	A	PF	TO	Pts
Beverage	4-13	6-8	4	4	2	3	14
Saccardo	6-14	0-0	1	1	1	7	12
Maurant	4-9	1-1	6	1	1	0	9
Dewilde	3-5	0-0	5	0	1	0	6
Wilmsn	2-4	1-2	11	3	3	2	5
Gregory	2-7	0-0	2	1	4	2	4
Cragg	1-3	1-2	5	0	3	2	3
Cozukos	0-1	0-0	1	1	0	1	0
Thmpsn	0-0	0-0	0	0	1	0	0
Totals	22-55	9-13	36	11	16	18	53

First Half: Field Goals 11-24; Free Throws 6-9. Team Rebounds: 1. Blocked shots: 3 (Cragg, Dewilde, Saccardo). Steals: 13 (Beverage 5, Gregory 3, Cragg 2, Saccardo, Thompson, Williamson). Technical Fouls: None.

Wellesley (57)

	FG	FT	Rb	A	PF	TO	Pts
Murphy	7-11	2-5	3	2	1	0	16
Akins	6-15	3-4	10	0	1	1	15
Andres	7-14	0-0	4	1	2	3	14
McCly	2-7	2-4	5	0	1	3	6
Fisher	1-1	0-0	0	0	0	0	2
Memver	1-6	0-0	1	1	2	2	2
Newton	1-5	0-0	5	0	2	1	2
Duggan	0-2	0-0	1	2	0	0	0
Dear	0-0	0-0	0	0	0	0	0
Totals	25-60	7-13	36	5	10	20	57

First Half: Field Goals 15-32; Free Throws 4-8. Team Rebounds: 7. Blocked shots: 2 (Duggan, Fisher). Steals: 6 (McCleary 2, Memver 2, Murphy 2). Technical Fouls: None.

MIT 28 25 - 53
Wellesley 34 23 - 57
A-75.



Tech photo by Kyle Peltonen

Alex Jessiman '88 straddles pile-up in USM goal.

Debate team finishes fifth in Utah tournament

By Mike Korcok

The debate team of Darrell Mavis '88 and Tony Pak '88 placed fifth at the University of Utah's invitational debate tournament held Jan. 25-27.

Over 100 teams from across the United States participated in the tournament. Mavis and Pak had to debate both sides of the topic "Resolved: that membership in the United Nations is no longer beneficial to the United States."

Last weekend, Mavis finished fourth in extemporaneous speaking at Brown University's speech tournament. Among the various topics he was given was "Has the United States missed out on an important scientific opportunity with regard to Halley's Comet?"

This weekend, the debate team is off to Northeastern University to defend their title as DSR TKA Northeast Debate Champions. (Editor's note: Mike Korcok is the coach of the MIT speech and debate team.)

Wellesley defeats MIT swimming team, 79-60

By Alison C. Morgan

The Wellesley swim team immersed the Engineers 79-60 last Tuesday evening at Wellesley. The swim meet was MIT's first in Wellesley's spanking new sports center.

Wellesley picked up a quick 16 points in the diving events, eight of which came uncontested. Tech's lone diver, Nancy Schmitz '86, was doused by her numerous challengers.

MIT lost a few exceedingly close races. Rebecca Perry '86 missed first place by less than a tenth of a second in the 100-meter backstroke. Julianne Marquet '87 lost in the 200-meter breaststroke by a blink of a be-goggled eye with five-hundredths of a second between her and the Wellesley winner.

Coach John Benedick saw some advantage to the team's close races, however. "There was a positive side to the races we lost," he said. "Many of those who did lose lost by only two-tenths of a second and had their best times."

"We are beating everyone in the longer races," Benedick said, taking note of Tech's season-long stamina. Michelle Quinton '89 repelled a challenge to her endurance in the 1000 meter freestyle as her Wellesley opponent drifted in a minute later.

Linda Sprys '88 flowed by in the butterfly, winning the 100-meter by five seconds and the 200 by 17 seconds. She also soaked Wellesley in the 100-meter indi-

vidual medley.

MIT takes its 4-2 record to Amherst this weekend. The New England Championships are at the end this of the month.

Wellesley vs. MIT

100 meter medley relay — 1, MIT (Sampson, Sprys, Perry, Sosik), 4:25.46; 2, Wellesley (Pebworth, Mikesell, Bolt, Fraher), 4:28.06.
1000 meter freestyle — 1, Quinton, MIT, 11:31.84; 2, Sampson, 12:04.38; 3, Wohl, Wellesley, 12:42.24; 4, DeLeon, MIT, 13:00.38.
200 meter freestyle — 1, Nevitt, Wellesley, 2:06.17; 2, Wilkinson, Wellesley, 2:08.41; 3, Vokrot, Wellesley, 2:11.41; 4, Sosik, MIT, 2:12.59.
100 meter backstroke — 1, Bolt, Wellesley, 1:08.28; 2, Perry, MIT, 1:07.24; 3, Steinert, Wellesley, 1:08.33; 4, Miller, MIT, 1:18.14; 5, Sybert, MIT, 1:18.19; 6, Foker, Wellesley, 1:18.20; 7, Baumann, Wellesley, 1:24.58.
100 meter breaststroke — 1, Fraher, Wellesley, 1:12.99; 2, Carter, MIT, 1:16; 3, Pebworth, Wellesley, 1:16.56; 4, Marquet, MIT, 1:17.95; 5, Telep, Wellesley, 1:19.34; 6, Smith, MIT, 1:20.83; 7, Krish, Wellesley, 1:20.34; 8, Hollerbach, MIT, 1:22.65.
200 meter butterfly — 1, Sprys, MIT, 2:18.97; 2, McLaughlin, Wellesley, 2:37.69; 3, Ambruzzi, Wellesley, 2:46.85.
50 meter freestyle — 1, Wilkinson, Wellesley, 26.70; 2, Nevitt, Wellesley, 26.82; 3, Greyber, MIT, 28.57; 4, Goldenberg, Wellesley, 28.25; 5, Lee, MIT, 29.38; 6, Kaplan, MIT, 30.46.
1 meter dive — 1, Kilburn, Wellesley; 2, Riddle, Wellesley; 3, Schmetz.
100 meter freestyle — 1, Wilkinson, Wellesley, 58.20; 2, Nevitt, Wellesley, 58.70; 3, Sosik, MIT, 1:00.83; 4, Greyber, MIT, 1:01.83; 5, Mayer, Wellesley, 1:02.58; 6, Goldenberg, Wellesley, 1:03.57; 7, Kaplan, MIT, 1:08.97.
200 meter backstroke — 1, Perry, MIT, 2:25.67; 2, Sampson, MIT, 2:29.80; 3, Steinert, Wellesley, 2:30.13; 4, Wahl, Wellesley, 2:36.28; 5, Foker, Wellesley, 2:52.72.
200 meter breaststroke — 1, Bolt, Wellesley, 2:44.38; 2, Marquet, MIT, 2:44.45; 3, Carter, MIT, 2:49.60; 4, Telep, Wellesley, 2:50.98; 5, Mayer, Wellesley, 2:52.95; 6, Smith, MIT, 2:53.42; 7, Hollerbach, MIT, 2:54.86.
500 meter freestyle — 1, Quinton, MIT, 5:50.59; 2, Vokrot, Wellesley, 6:05.21; 3, Wahl, Wellesley, 6:11.32; 4, DeLeon, MIT, 6:22.52; 5, Sybert, MIT, 6:25.46.
100 meter butterfly — 1, Sprys, MIT, 1:20.24; 2, VanRenterghen, MIT, 1:33.12; 3, Mikesell, Wellesley, 1:07.35; 4, Abrizzi, Wellesley, 1:09.46; 5, Perry, MIT, 1:12.35; 6, Lee, MIT, 1:20.24.
3 meter dive — 1, Riddle, Wellesley; 2, Kilburn, Wellesley.
100 meter individual medley — 1, Sprys, MIT, 2:19.66; 2, McLaughlin, Wellesley, 2:27.11; 3, Bolt, Wellesley, 2:28.65; 4, Marquet, MIT, 2:33.09; 5, Lee, MIT, 2:45.93.
400 meter freestyle relay — 1, Wellesley (Fraher, Vokrot, Nevitt, Wilkinson), 3:55.67; 2, MIT (Sosik, Sampson, Quinton), 4:03.99.

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