

Mondale and Reagan debate

By Diana ben-Aaron

President Ronald W. Reagan and former vice president Walter F. Mondale argued over foreign policy and national defense Sunday in the third and last debate of the 1984 presidential campaign.

The impact of Reagan's proposed space-defense system on the threat of nuclear holocaust became the focal point to the debate.

"I would like to see [the elimination of nuclear weapons], and in the meantime, we have to be strong enough to make certain that the Soviet Union never tempts us," Mondale said.

"No one knows whether Armageddon... is 1000 years away or the day after tomorrow," Reagan commented.

He said he would share the Star Wars technology of missile defense with the Soviet Union if such a defense were developed. "I think [incentive for mutual disarmament] would be the greatest use of a defensive weapon," Reagan explained.

Mondale, in turn, criticized strategic defense plans, noting that such a project would cost a trillion dollars.

The Soviets would build similar system, and the decision to start war would belong to computers, rather than the president. "It might be an oil fire, it might be a jet exhaust, the computer might decide it's a missile and off we'd go," Mondale said.

In his closing remarks, Mondale emphasized the need to avoid nuclear confrontation.

"Since we debated two weeks ago, the United States and the Soviet Union have built 100 more warheads, enough to kill millions of Americans and millions of Soviet citizens," he observed. "This doesn't strengthen us. This weakens the chances of civilization to survive."

Reagan used the analogy of a time capsule to explain his hopes for the future in his closing statement: "[Future generations] will know all about our problems, they would know how we solved them, and whether our solution was beneficial to them down through the years and whether it hurt them... What they will say about us a hundred years from now will depend on how we keep our rendezvous with destiny."

State Representative Susan D. Schur and Kennedy School of Government professor William D. Kristol spoke before and after the debate screening sponsored by the Undergraduate Association. Schur spoke on behalf of Mondale, and Kristol spoke on behalf of Reagan.

Foreign interventionists should vote for Reagan, while those who favor more domestic intervention should support Mondale, Kristol said.

"We have a chance of buying a president like we buy toothpaste — or like we buy Teflon-coated pots and pans — or we have a chance to defy 1984 and all that it stands for," Schur said in her pre-debate remarks.

"Just because some folks are well off is no excuse for selfishly guarding... opportunity," she added.



Tech photo by Sidhu Banerjee

Kennedy School of Government professor William Kristol and State Representative Susan D. Schur respond to questions from students in 10-250 before the presidential debate Sunday night.

Campaign Analysis

Impact of debate unclear

By Andrew Bein

Sunday night's presidential debate on foreign policy was a last chance for Walter Mondale to improve his meager but increased standing in the polls. For President Ronald Reagan, it was a necessary chore which could at best make up ground lost in the first debate, and at worst embarrass him.

Mondale came out flying. He turned around his first question, about Central America, to blast Reagan for his factual mistakes, particularly his 1982 remark that

submarine-launched missiles are recallable.

This sparked a give-and-take as Reagan insisted he had "never, ever conceived of such a thing," while Mondale said he would prove it was said. Reagan maintained he was actually referring to the recall of submarines before their bombs are released.

Mondale harped on his perception of Reagan's lack in leadership skill and wisdom. He frequently commented that Reagan had trouble handling certain issues, even though "a president should know such things." The challenger's grins often distracted the president.

Reagan, in turn, was on target with some laugh lines. When asked about the age issue, he stated: "I am not going to exploit for political purposes my opponent's youth and inexperience." Laughter erupted through the crowd, the longest response of the evening.

Mondale's support of the nuclear freeze failed to stand up to questioning. He assured that America would be kept strong and that no freeze could occur without mutual verification. But he could not properly explain how verification would take place.

Reagan restated his goal of a

Star Wars type defensive system which would make nuclear weapons obsolete. This could lead to pacts for mutual destruction of all such missiles with the Soviets. He then proposed sharing the technology of the defensive system with the Soviets to avoid cheating by either side.

Mondale sharply disagreed with sharing the technology. He failed to differentiate between the defensive proposal and an offensive, space-based weapon. He labeled the proposed system a "dangerous escalation."

The debate would have been a stalemate, since both candidates made their cases, although they each made some factual errors. But mishaps in Reagan's closing remarks hurt the president.

Viewers searching for any error by the favored incumbent found one when Reagan questioned a "return to the policies of weakness of the last four years." The ambiguous reference to the Carter-Mondale administration went over poorly.

Similarly, Reagan's failure to finish within the required time limit prompted the smirking moderator Edwin Newman to interrupt his closing remarks. This cast a pall for Republicans over the debate's conclusion, and left its outcome in doubt.

MIT committees fill 23 positions for students

By Craig Jungwirth

Faculty chairmen have appointed 23 students to Institute committees based upon recommendations of the Undergraduate Association's Nominations Committee, according to NomComm Chairman Robin Barker '85.

"Applicants were ranked on a preferential basis according to the biographical information they submitted to NomComm," Barker explained. "These rankings were then submitted to the chairmen of the committees for their consideration."

NomComm nominated students for only 23 positions, despite 39 position vacancies. Barker said these vacancies came from a lack of student response to NomComm advertising.

"It is unfortunate that more freshmen and sophomores do not seek open positions on committees," Barker said. "The decisions that committees on campus make... will definitely affect those students' lives," she said.

Many committees were "oversubscribed in the application process," Barker said. The Committee

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Stonehenge p.17

Hart and Kerry speak at a Democratic rally at Harvard

By Harold A. Stern

Senator Gary Hart came to Massachusetts Sunday to campaign for Walter Mondale and Senate candidate John Kerry at Harvard University. This was his first appearance in the state since his primary victory over Mondale last March.

One thousand people came to hear Hart, Kerry, and three other speakers attack the Reagan administration and Kerry's Republican opponent, Ray Shamie. The rally's theme was the administration's "unfairness."

Hart characterized the Reagan campaign as based upon "cynicism and selfishness." Reagan's re-election plans are based upon "a few dollars in our pocket-books from an unfair tax cut."

Harvard Law School students Mary Lynch and Maurice Kayne, Jr. claimed that the nation's economic recovery came at the expense of fairness — minorities and the poor were "locked out of Reagan's land of prosperity."

Lynch accused the president of trying to "slam doors shut" and resurrect the barriers that pre-

vious Democratic administrations had broken down, especially in educational opportunity. She claimed that Reagan had even tried to cancel the Guaranteed Student Loan program.

Hart also wasted little time before blasting the Reagan campaign: the Reagan camp is "gambling that people care more about their self-interest than the welfare of the nation and its future."

The Republicans are "exchanging an apparent election-year recovery in place of a thirty-year fight for equality... peace and justice in Central America, the Middle East, and the rest of the world," he said.

Hart appealed to the the young people in the crowd, voters who helped him challenge Mondale last spring. He accused Reagan of "mortgaging America's future... Your generation will have to pay for the arms buildup."

The voters must choose between "the country's future and its past, a past Ronald Reagan is trying to resurrect, and probably never even existed," Hart said.

In sharp contrast, he said the Democratic party "believes something fundamentally different; that American citizens are idealists, and the people believe in the national interest, not self-interest."

Although Hart readily attacked Reagan, he seemed hesitant to come out and support Walter Mondale; he was much more



Tech photo by Michael Frey

Senator Gary Hart campaigns for Walter Mondale and Senate candidate John Kerry last Sunday at Harvard University.

GSC addresses housing issues

By Michael J. Garrison

The Graduate Student Council (GSC) addressed the issues of graduate housing at MIT in a meeting last Thursday which also saw an election failure.

The GSC failed to elect a secretary for the second meeting in a row. The post of GSC secretary is officially open to nomination, but filling the position will not be included on the future agendas.

GSC vice president John Lucassen reported that an "adequate number and quality of volunteers" filled the graduate student positions on the Institute committees.

The Housing and Community Affairs Committee confronted housing issues which have led to "heated discussions" about the present Institute policy, GSC President Rene J. LeClair said.

One issue is the extra Institute charge on graduate students for housing. The fee is earmarked for future graduate housing development.

The committee questioned the rationale behind "a fee levied against present occupants for future housing," since MIT has announced it does not plan to build any new residences for the graduate school in the next ten years.

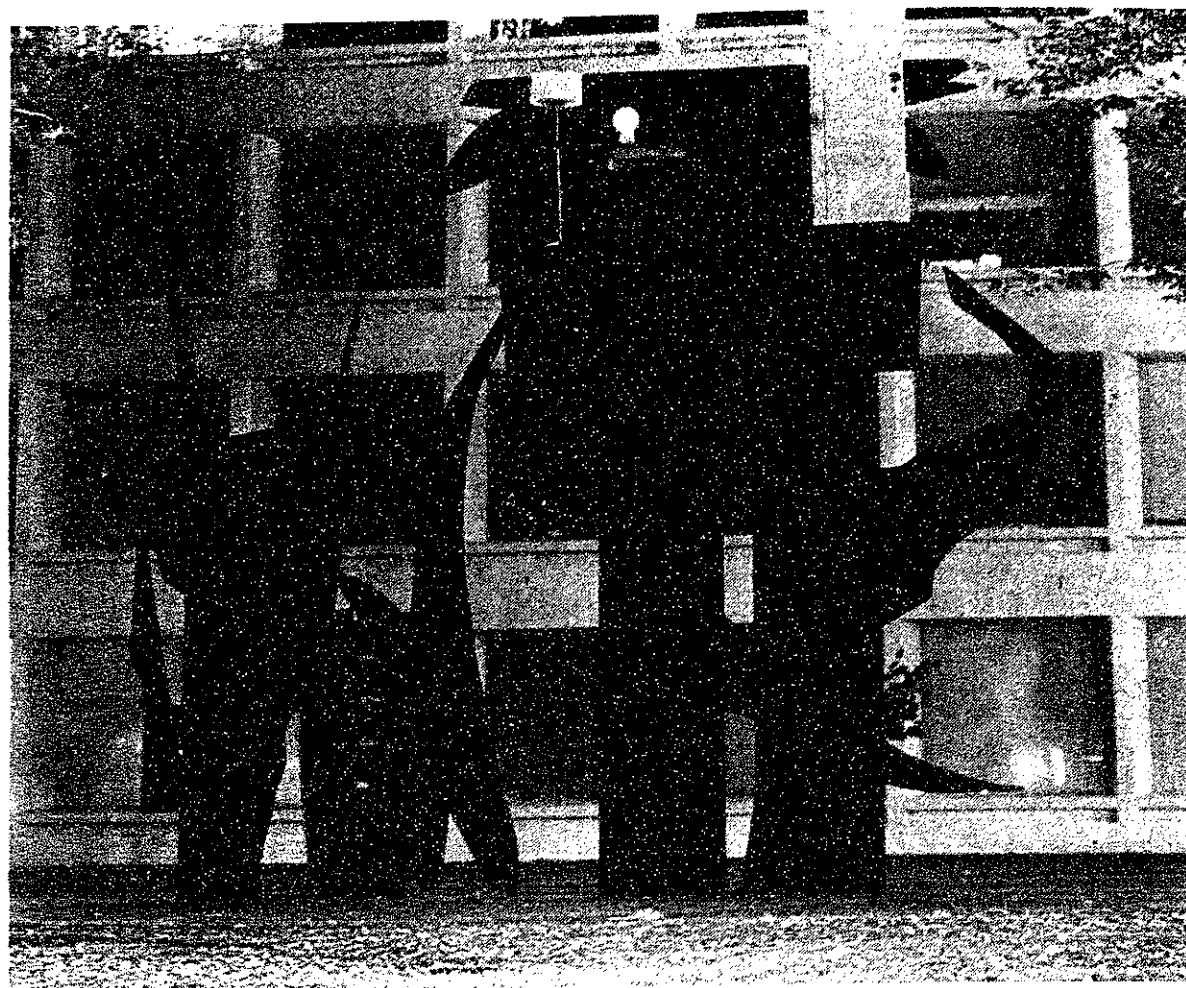
Graduate students also need to know where they stand on the housing waiting list. The MIT Housing Office would like to have a list which could be updated weekly, but they do not yet have a means of maintaining such a list, LeClair said.

The GSC is also planning to publish a monthly newsletter. The newsletter will contain a listing of graduate student events and activities, as well as articles about issues affecting graduate students, according to editor Alex Savich.

Kathryn D. J. Ayan G reported on the Academic Projects and Policies Committee's plan to draw up a bill of rights and responsibilities for the graduate school. The committee is trying to find what written policies exist for graduates, both here and at other institutions.

The committee's goal is to establish a set of academic standards for graduate students. There are no Institute-wide standards, although several MIT departments have a written graduate policy.

The meeting ended with the passage of three amendments to the GSC by-laws. The amendments, approved with almost no debate, made organizational changes in the offices of treasurer and parliamentarian and an addition to the executive committee.



Tech Photo by Simson L. Garfinkel

Hackers decorated the Transparent Horizons sculpture by East Campus Saturday night, climbing over 15 feet to place a desk, a door and a road-construction blinker atop the "artwork."

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news roundup

World

OPEC ministers call emergency meeting — Seven of the thirteen ministers of the Organization of Petroleum Exporting Countries gathered yesterday in Geneva, Switzerland to prepare for an emergency meeting of the group set to begin next Monday. The emergency session was called by Saudi Arabia to prevent an all-out price war, which many fear may follow recent cuts in oil prices by non-OPEC members Britain and Norway and OPEC member Nigeria. Some oil-producing countries not in the cartel have been invited to participate in the talks. Industry analysts expect consumers will soon see a drop of eight cents per gallon for home heating oil and five cents per gallon for gasoline because of the reduction in prices for crude oil.

CIA plane crashes in El Salvador — Four US citizens, all civilian employees of the Central Intelligence Agency, died when their plane crashed Friday into the side of a volcano five miles west of San Salvador, the capital of El Salvador. The US government originally placed the crash site about 20 miles northeast of where the wreckage was eventually found. The small, twin-engine plane was believed to have been on a reconnaissance mission when it apparently strayed off course during a tropical rainstorm. The plane may have been tracking another plane, piloted by anti-government forces, in hopes of locating rebel airstrips in the area. US intelligence personnel denied the plane was shot down, as claimed by the rebels.

US embassy partially evacuated — Only a skeleton staff remains at the US embassy in Beirut following the evacuation of most American embassy personnel from the compound over the weekend. About 25 of the current complement of 50 embassy staffers remain in Beirut; all dependents of employees have left. Actual numbers and movement of people in and out of the compound is classified by the US government for "security reasons." The fear that another terrorist attack on the US embassy will occur prior to the presidential election precipitated the evacuation. Fourteen people, including two Americans were killed in a "suicide bombing" of the embassy in September.

Truffaut: fade to black — Film director Francois Truffaut, a leader of the "New Wave" movement of the French cinema, died Sunday of cancer. He was 52. Truffaut won the Academy Award for Best Foreign Language Movie in 1973 for "Day for Night," and a Cannes Film Festival Prize in 1959 for his first full-length feature, "The 400 Blows." Other films he directed included "Jules and Jim," "Small Change," and "The Story of Adele H." Truffaut was also an actor, perhaps most familiar to American audiences as the French archaeologist in "Close Encounters of the Third Kind."

Nation

Reagan will fire authors of CIA manual — President Ronald Reagan will fire any Central Intelligence Agency official responsible for the handbook which advises anti-communist Nicaraguan rebels to assassinate Sandinista leaders, national security adviser Robert C. McFarlane said Sunday. It is not known whether CIA director William J. Casey knew anything about the content or distribution of the manual, which may have been produced by a low-ranking CIA operative acting without agency approval. The 90-page manual, which House Speaker Thomas P. "Tip" O'Neill said Thursday violates the law prohibiting the use of government funds for covert activities in Nicaragua, proposes that "selective use of violence" be used to "neutralize" Sandinista officials.

Repeat drunken drivers cause many fatal crashes — The National Transportation Safety Board, in a recent report, said 42,000 people were killed in car accidents in the United States last year, and that 65 percent of those deaths were alcohol related. About 30 percent of the fatal crashes caused by drunken drivers were committed by repeat offenders, many of whom had lengthy records for the offense. James E. Burnett Jr., chairman of the safety board, noted that 74 alcohol-related automobile deaths occur every day.

Local

Massachusetts death penalty law dealt death knell — The Massachusetts Supreme Judicial Court ruled 4-3 Thursday that the state's death penalty law is unconstitutional. The law, signed by former governor Edward J. King in 1982, mandated a maximum penalty of life imprisonment if a defendant in a murder trial plead guilty; capital punishment could have been imposed only after a jury trial. The justices opined that defendants might be encouraged to plead guilty to avoid the possibility of execution, a situation which would run counter to the legal principles guaranteeing the rights to impartial jury trials and against self-incrimination embodied in the state's constitution. Since this ruling was made in state court and affected solely state law, no appeal to any federal court is allowable. Sponsors of the death penalty law plan to file a new capital punishment bill in the state legislature, but governor Michael J. Dukakis is expected to veto any attempts to reimpose capital punishment in Massachusetts.

Cop sentenced in cocaine rap — Henry F. Werner, a former Massachusetts state trooper, was sentenced Friday to 6 to 10 years in Walpole State Prison for stealing cocaine worth \$1200 from the evidence room of the State Police Barracks in Middleborough. He was not charged with stealing an additional \$50,000 worth of cocaine which disappeared from the barracks at the same time. Werner is the third policeman to be jailed in Massachusetts on drug charges within the past three years.

Shamie "unaware" of Birch views — Republican US Senate candidate Raymond Shamie, speaking yesterday before a Jewish group gathered at Temple Israel in Sharon, said "I don't know whether the John Birch organization is anti-Semitic or not. It was never anything that came to my attention." A woman in the crowd rejoindered, "You have a responsibility to know what the John Birch Society is all about. I don't think you can say you didn't know anything about it." Shamie's involvement with the ultra-right wing group has become an issue in his campaign against the Democratic nominee John F. Kerry.

Sports

"I'm not a marathon runner" — Even so, Cpl. Steven Jones of the Royal Air Force won the America's Marathon-Chicago Sunday in a world record 2:08:05, breaking the previous record set by Alberto Salazar in the 1981 New York City Marathon by eight seconds. The 29 year old native of Barry, Wales, who said his specialty is the 10-kilometer race, won \$35,000 for winning in only his second attempt at running the 26 mile, 385 yard race. Race officials said he may receive an additional \$50,000 bonus for setting the new world record, an additional \$10,000 for establishing a new course record. Jones dropped out at the 19-mile point during his first marathon try last year.

BC takes a tumble — The fourth-ranked Boston College Eagles, ahead 20-6 at halftime, lost their first game of the season Saturday to the 20th-ranked West Virginia Mountaineers, 21-20. This was the third consecutive year the Eagles went into their game with West Virginia with a spotless record, only to lose the contest. The Eagles are now 4-1; the Mountaineers upped their record to 6-1. BC quarterback Doug Flutie, considered a strong candidate for the Heisman trophy, went 21-of-42 for 299 yards and one touchdown in the losing effort.

Miami breaks Foxboro jinx — At the midway point of the National Football League regular season, the Miami Dolphins remain the only unbeaten team after a 44-24 drubbing Sunday of the New England Patriots. The win was only the Dolphins second on the Patriots' home turf in the past nine years. Miami quarterback Dan Marino threw four touchdown passes in the game; his total of 24 so far this season broke the previous Dolphins team record of 22 set by Bob Griese in 1977, and he is well within reach of the NFL record of 36 scoring tosses set by George Blanda in 1961 and Y.A. Tittle in 1963. Miami is now 8-0 on the season; New England stands at 5-3.


Weather

We've seen better — Today and Wednesday will be mostly cloudy and cool with occasional periods of rain. Today's high temperature might reach 65, with tonight's low near 50 and Wednesday's high about 58. Scattered showers will be the rule for the next several days.

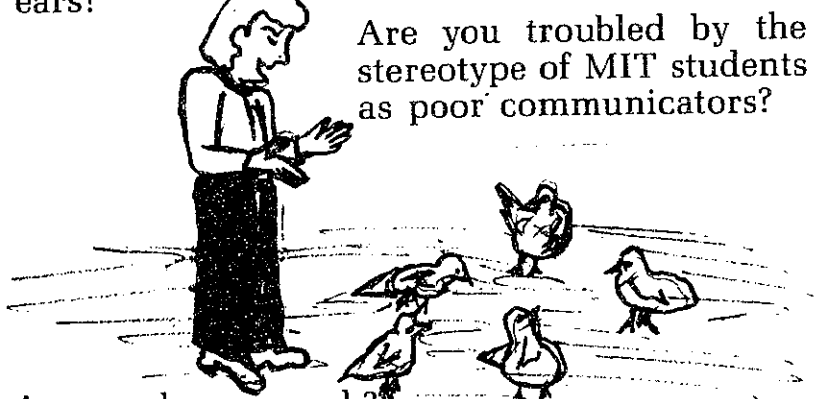
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opinion

Column/Will Doherty

MIT policy on gay rights is tolerant

First in a three-part series

Although MIT has come a long way in the last two decades toward the eradication of discrimination and prejudice directed at lesbians and gays, two significant forms of discrimination remain. To some extent, lesbians and gays at MIT still face both institutional and informal discrimination.

Institutional discrimination is discrimination perpetrated by the regulations of an institution. For lesbians and gays at MIT, this includes local, state, federal laws, and of course, Institute regulations, that either promote discrimination or ignore existing discrimination directed at the lesbians and gays in the MIT community.

On the local level, the Cambridge City Council will consider a resolution this year banning discrimination against lesbians and gays in the areas of housing, employment, and social service distribution. The home-rule regulations of the Commonwealth of Massachusetts may make this resolution unenforceable should it pass.

The Massachusetts legislature has for almost a decade considered legislation banning discrimination against lesbians and gays. In the last legislative session, the Massachusetts House of Representatives resolved to prohibit such discrimination for the first time, but the Senate delayed a vote on the measure until the session ended. Thus, the Massachusetts legislature will have to reconsider the measure during this legislative session. The laws on the books in Massachusetts permit sex only between married adult (over 18 years of age) heterosexuals in the missionary position within the privacy of their home. However, judicial practice in the Commonwealth of Massachusetts is much more lenient, usually not resulting in prosecution of lesbians and gays over 16 years of age who have consensual

sex in a private place. The main reason that the laws are not more liberal is that legislators who wish to pursue careers in politics have no desire to "taint" their image with lesbian and gay rights activism, a stance that may potentially evoke a negative response from their colleagues and from the electorate.

On the federal level, Congress each year scuttles lesbian and gay rights bills into committees where they never resurface. The nationwide outlook for legislation prohibiting discrimination against lesbians and gays is not promising for the near future.

At MIT though, lesbians and gays in general find a particularly tolerant atmosphere for a primarily heterosexual institution. In 1981, after more than a decade of organizing, the MIT administration added sexual orientation to the list of characteristics for which Institute regulations prohibit discrimination. The MIT policy appears each year in, among other places, the Institute Bulletin. It reads:

"The Massachusetts Institute of Technology admits students of any race, color, sex, religion, or national or ethnic origin to all rights, privileges, programs, and activities generally accorded or made available to students at the institute. It does not discriminate against individuals on the basis of race, color, sex, sexual orientation, religion, handicap, age, or national or ethnic origin in administration of its educational policies, admissions policies, scholarship and loan programs, and other Institute administered programs and activities, but may favor US citizens or residents in admissions and financial aid."

So, compared to most other university environments, MIT as an institution officially has a tolerant position on lesbians and gays. The main problem arises with MIT's interface to the outside world.



WAIT, NOW, THIS CALLS FOR A LITTLE MAKEUP...



GO AHEAD

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Guest Column/Scott Saleska

Reagan administration has a poor record on civil rights

First in a series

"This administration has a good record on civil rights." — George Bush, during the Oct. 11 vice presidential debate.

This is a straightforward, simple statement, just like so many issuing from the current crowd in the White House. And like so many others before, it is at odds with the facts. Quite the contrary to Bush's remark, Ronald Reagan's administration has the worst civil rights record in thirty years.

Last February, the American Civil Liberties Union issued a report entitled, "In Contempt of Congress and the Courts: the Reagan Civil Rights Record." This report documents a wide array of official executive actions, many largely unpublicized, which illustrate the administration's complete and general disregard for long-established civil rights laws.

It shows how President Reagan has thrown thirty years of bipartisan legislative and judicial consensus out the window, and illustrates a dangerous disregard on the part of the highest law enforcement official in the land for the laws that he is sworn and duty-bound to uphold.

The Reagan administration has inadequately enforced and sometimes been in outright violation of settled law. It has ignored explicit congressional intent and clear judicial interpretation in the enforcement of the Civil Rights of Institutionalized Persons Act, the Voting Rights Act, the Fair Housing Act, and Title IX of the Education Amendments of 1972.

It is the legal duty of the executive branch to bring suit when these laws are being violated. Yet, just to cite one example regarding the Institutionalized Persons Act, the Justice Department has filed no lawsuits addressing conditions at mental health institutions, even though investigations have shown widespread abuses. The report cites an Idaho investigation which showed that:

...emotionally disturbed children at three state institutions were subjected to abuses that included molestation by hospital staff. Nonetheless, Assistant Attorney General Reynolds reportedly turned down a staff recommendation to sue, on the grounds that there was no federal interest in the matter and that no constitutional rights

were at stake.

The administration has redefined many civil rights laws in ways that are in clear violation of the intent expressed by Congress and upheld by the Supreme Court. For example, it has virtually ignored the Fair Housing Act "effect test."

This clause requires only that discriminatory effect be proven in order to show discrimination, instead of requiring plaintiffs to prove "intent to discriminate," which is nearly impossible to do. The administration's action is equivalent to saying "It's okay if you are discriminated against as long as no one does it on purpose."

In other areas, the administration has even impeded the efforts of institutions to voluntarily comply with the law. It attempted to prevent the Internal Revenue Service from exercising its legitimate authority to deny tax-exempt status to the discriminatory Bob Jones University.

The administration has virtually accepted the repudiated doctrine of "separate but equal" in public education. (Assistant Attorney General Reynolds said, "The Supreme Court has told us

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The Tech

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"... Boy, that was one great answer!... It's a shame that they didn't ask that question..."

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opinion

The Reagan administration has not enforced anti-discrimination laws

(Continued from page 4)

there is nothing wrong with a school that is racially unbalanced . . . it is only unconstitutional when it is a forced thing." The Supreme Court has not said any such thing since the nineteenth century.)

The administration has also promulgated regulations to weaken the enforcement authority of federal agencies, and has turned

the US Commission on Civil Rights into an instrument of presidential policy.

What is perhaps just as disturbing as the dismantling of Federal Civil Rights enforcement structure is the administration's attempt to portray itself as pro-civil rights. When Reagan signed the Voting Rights Extension Act of 1982 into law, he said, "This legislation proves our unbending

commitment to voting rights." What he neglected to mention was that the Senate managed to pass the bill only over administration attempts to block it.

Ronald Reagan's administration is the first to go backwards in the area of Civil Rights in over thirty years. No previous administration, Republican or Democrat, has openly challenged the authority of the Supreme Court's rulings on the subject. The president's disregard for the principle of "rule of law", in a country which has this concept firmly embedded in its founding principles, is utterly inexcusable.

The administration has rigidly refused to employ the anti-discrimination tools so painfully developed over so much time and has instead chosen to return to the failed policies of the past. Walter Mondale may not be the most exciting candidate for president, but he has a record that shows real support for civil rights, and respect for the principles of the law.

Anne G. Prince

feedback

Qualified women and minorities do exist

To the Editor:

I applaud Barry J. Berenberg's efforts to grapple with the issues confronting women and minorities. However, I was somewhat amused by the fact that in his letter to the Editor [*The Tech*, October 16], as well as in letters written by others with no real long-term cultural and/or personal experience of bias, the assumption seems to be that women and/or minorities with qualifications equal to, or better than, their own do not really exist.

The notion which seems to be coming through, at least to me, is that women and/or minorities are not really be as good as "us." They are groups which must be dealt with by virtue of their sheer numbers and clamoring. The only recognized explanation for the apparent growth in representation is that some unfortunate better-qualified candidate for a job, or admission to school, was caught in the "mood" of the times and denied access.

Guess what? There are plenty of women and minorities who are qualified for all kinds of work and responsibilities! The progress of equally qualified candidates, however, is slow. Without guarantees backed up by law there most surely would be no progress at all.

I, like Barry Berenberg, grapple with the questions raised by those "left out" (from either perspective — that of the majority or the minority), and wonder how fair policies can be applied.

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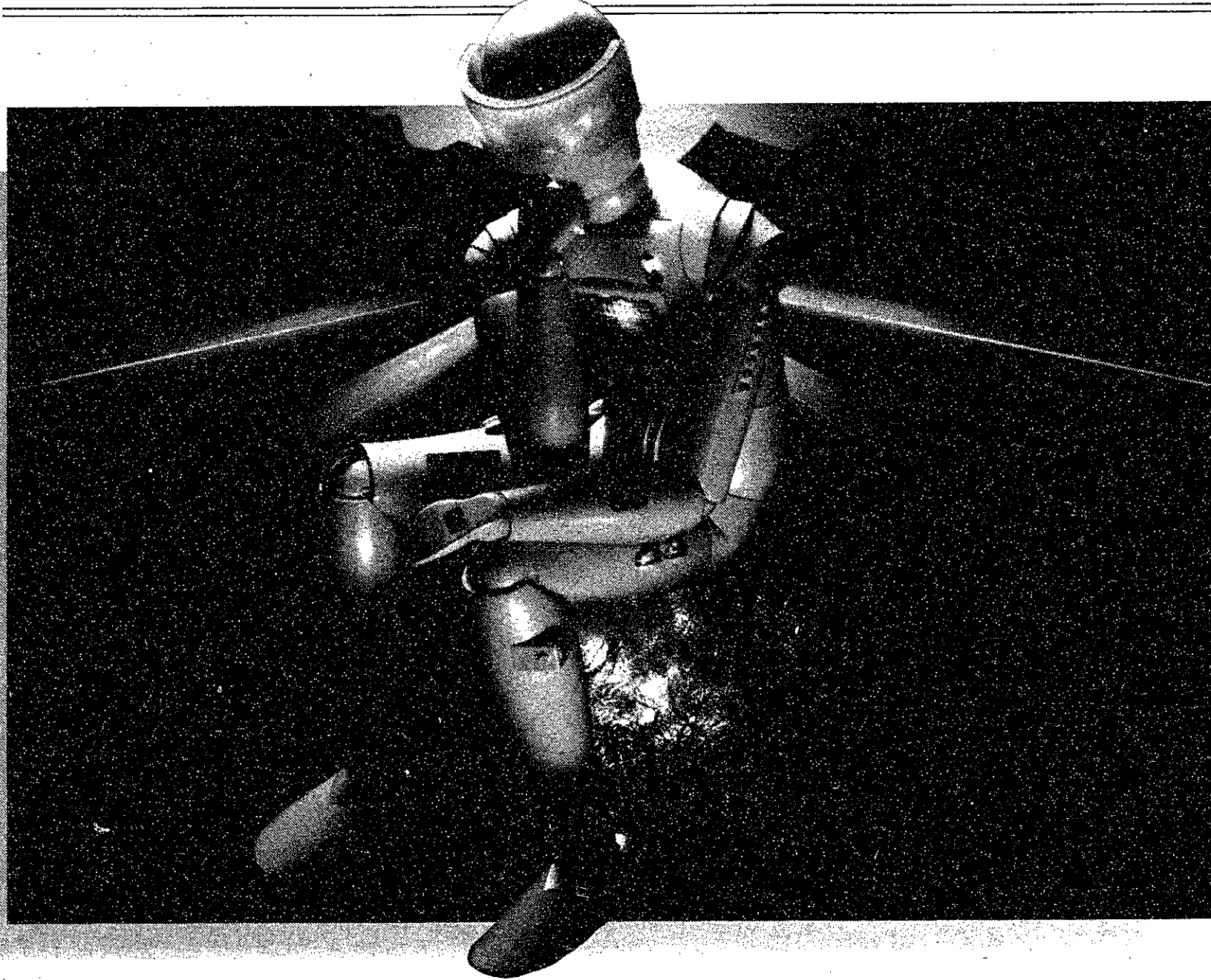


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Create computers that capture the mysteries of common sense.

The brain does it naturally. It wonders. It thinks with spontaneity—advantages we haven't been able to give computers. We've made them "smart" able to make sophisticated calculations at very fast speeds. But we have yet to get them to act with insight, instinct, and intuition.

But what if we could devise ways to probe into the inner nature of human thought? So computers could follow the same rationale and reach the same conclusions a person would.

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What if we could actually design computers to capture the mysteries of common sense?

At GE, we've already begun to implement advances in knowledge engineering. We are codifying the knowledge, intuition and experience of expert engineers and technicians into computer algorithms for diagnostic troubleshooting. At present, we are applying this breakthrough to diesel electric locomotive systems to reduce the number of engine teardowns for factory repair as well as adapting this technology to affect savings in other areas of manufacturing.

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the human brain might.

While extending technology and application of computer systems is important, the real excitement and the challenge of knowledge engineering is its conception. At the heart of all expert systems are master engineers and technicians, preserving their knowledge and experience, questioning their logic and dissecting their dreams. As one young employee said, "At GE, we're not just shaping machines and technology. We're shaping opportunity."

Thinking about the possibilities is the first step to making things happen. And it all starts with an eagerness to dream, a willingness to dare and the determination to make visions, reality.



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by contacting:

Office of Career Planning
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Students appointed

(Continued from page 1)

tee on Educational Policy, the Advisory Committee on Shareholder Responsibility, the Committee on Academic Performance and the Committee on Undergraduate Admissions and Financial Aid all received more applicants than they had spaces for.

"NomComm attempts to redirect many of the students who apply for these limited positions to other committees which require members," she said.

Barker added that NomComm not only recommends students to serve on Institute committees, but also acts as a liaison to the committees. The purpose of this, she said, is to insure that the students represent their constituencies fairly and accurately.

Vacant positions will be filled at a special NomComm hearing in December or during the regular NomComm hearing in February, Barker said.



This space donated by The Tech

NomComm releases appointment list

The following students have been chosen to serve on institute committees: Committee on Curricula: John Kenny, full-year term; Committee on the Library Systems: Steve McCune, half-year term; Committee on Student Affairs: Simone Pottenger, full-year term, Robert Weiner and Erik Larson, half-year terms; Committee on the Writing Requirement: Nick Panayotopoulos, half-year term; Dining Advisory Board: one unfilled full-year term; IAP Policy Committee: one unfilled full-year term, three unfilled half-year terms; Wellesley-MIT Joint Committee: John Kenny, one half-year term; Committee on International/Institutional Commitments: John Brigrance Searles, full-year term; Alumni Fund Board: two unfilled full-year terms; Advisory Committee on Women Students Interests: Louis Kuchnir, full-year term, three unfilled half-year terms; Community Service Fund Board, one unfilled full-year term; Equal Opportunity Committee: Joe Parra, full-year term, one unfilled full-year term; Medical Advisory Board: David Milli and Joseph Woo, full-year terms; Committee on Privacy: Robert Weiner, full-year term; Pre-law Advisory Committee: Michael Davis and Anthony Polito, full-year terms, one unfilled full-year term; Student Activities Development Board: Bernard Teh, full-year term, one unfilled full-year term; Committee on Safety: one unfilled full-year term; Committee on Use of Humans as Experimental Subjects: Ronald Becker, full-year term; Committee on Visual Arts: Stephen LeBlanc and Andrea Ghez, full-year terms; Advisory Committee on Shareholder Responsibility: Pamela Loprest, full-year term; Lobby 7 Committee: one unfilled full-year term; Advisory Pornographic Committee: Elizabeth Smela and Terence Galati, full-year terms; and Corporation Joint Advisory Committee: Stephanie Scheidler, 3-year term.

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- Robotics
- CAD/CAE/CAM
- Computer Graphics
- Plastics
- Metallurgy
- Ceramics
- Software Engineering
- Signal Processing
- Controls

For more information on these programs and the major business areas available refer to the General Electric file located in your placement office.

When and Where?

Tuesday, November 6th and Wednesday, November 7th in your placement office

What else?

Sign-ups will commence Monday, October 15th

The future is working
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Listings

Student activities, administrative offices, academic departments, and other groups — both on and off the MIT campus — can list meetings, activities, and other announcements in *The Tech's* "Notes" section. Send items of interest (typed and double spaced) via Institute mail to "News Notes, *The Tech*, room W20-483," or via US mail to "News Notes, *The Tech*, PO Box 29, MIT Branch, Cambridge, MA 02139." Notes run on a space-available basis only; priority is given to official Institute announcements and MIT student activities. *The Tech* reserves the right to edit all listings, and makes no endorsement of groups or activities listed.

Tuesday, Oct. 23

A panel on "Careers in T.V. and Radio Broadcasting", sponsored by the Jewish Vocational Service, will be held from 7:30-9:30 pm at Gosman Jewish Community Campus, 333 Nahanton Street, Newton Centre, MA. Admission is \$5. For more information, please contact Gail Liebhaber at 965-7940.

* * * *

A cognitive science seminar entitled, "Boltzman Machines: Constraint Satisfaction Networks that Learn", sponsored by the MIT for Cognitive Science, will be held at 7:30 pm in the Grier Conference Room 34-401. The speaker will be Geoffrey E. Hinton, Dept. of Computer Science, Carnegie-Mellon University. Copies of the paper are available upon request from Karen Persinger, 20B-225, x3-7358.

Wednesday, Oct. 24

MIT Student Pugwash is sponsoring a forum to discuss MIT's request for exemption from the Right to Know Law. The forum will be at 5 pm in room 4-270. Representatives of the Massachusetts Department of Health and MIT will attend. Everyone is welcome. For more information, call x3-1620

* * * *

The Quality of Student Life at MIT: the second in a series of four meetings sponsored by the Office of the Dean for Student Affairs. The meeting will be held from 4:30-6 pm in the Mezzanine Lounge at the Student Center. Let us hear from you.

* * * *

An informal get together of the MIT European Club will take place in the Mezzanine Lounge at 7 pm. Bring your own drink. Members and non-members welcome.

* * * *

A meeting of the Student Cable Programming group will take place in Room 9-329 at 6 pm. All interested people are invited to attend. For more information, contact Randy Winchester, x3-7431, Room 9-030.

Thursday, Oct. 25

A seminar entitled "The MIT Communications Problem", sponsored by the Communications Forum, will be held from 4-5:30 pm in the Marlar Lounge, Room 37-252, 70 Vassar Street, MIT. The speaker will be David Clark from the MIT Laboratory for Computer Science.

* * * *

Beth Israel Hospital is starting a new group program for tension and migraine headache sufferers. Participants will learn to use non-drug techniques including the relaxation response, stress management, and exercise to relieve their pain.

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October 25 - 30 8:00 pm \$ 4.00 Student/Senior Citizen
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MIT Student Center

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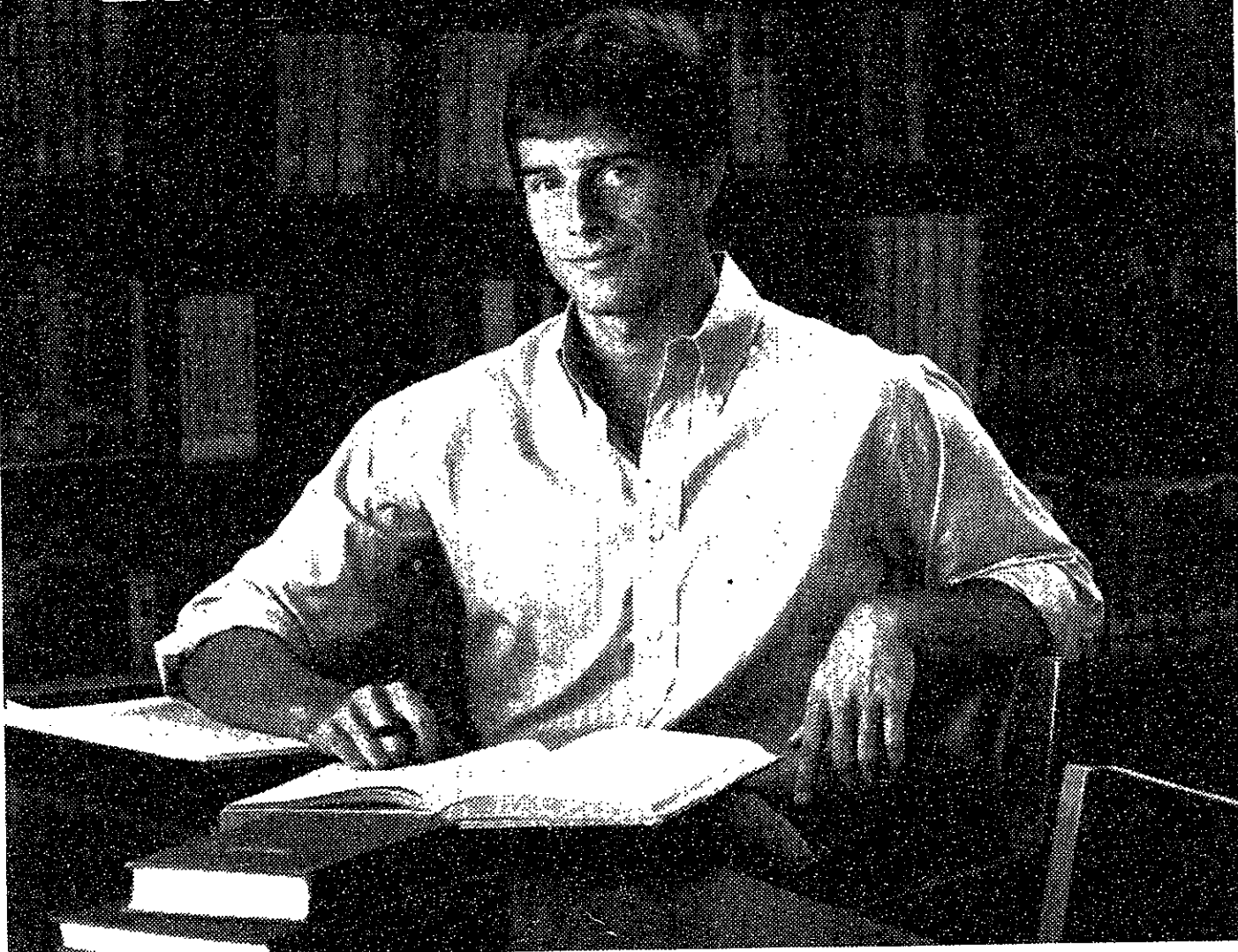
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notices

Listings

Friday, Oct. 26

"U.S. Elections and the Middle East" will be the topic of a talk by Elaine Hagopian, professor of political science at Simmons College. Sponsored by the MIT Committee on the Middle East. The talk will be at 3 pm in Room 20D-205. For more information, call Mark Anderson, x5-9478.

The Family: Ideology and Reality, will include speakers Kate Ellis of Rutgers, Louise Rice, and Tess Ewing. This event, sponsored by the Black Rose Lectures, will be held at 8 pm at 105 Mass Ave., MIT room 9-150.

Sunday, Oct. 28

WBZ's 3rd Annual **Halloween Lite Monster Dash Road Race** will start at 12 noon at Jimbo's Fish Shanty. All proceeds will benefit Children's Hospital. Also, immediately following the race, there will be a "Dash Bash" celebration party for the runners. For more information, please contact Donna Howard at 926-8523.

Tuesday, Oct. 30

A career workshop on "**Interviewing: For Information Only**", sponsored by the Jewish Vocational Service, will be held from 7:30 to 9:30 pm at Gosman Jewish Community Campus, 333 Nahanton Street, Newton Centre, MA. Fee is \$15. To pre-register, please contact Meryl Glatt 723-2846 or Emily Kirshen 965-7940.

President Gray will hold open hours from 3:30-5 pm. Any member of the MIT community may schedule a fifteen-minute appointment on a first-come, first-served basis by calling x3-4665 or stopping by the reception area in Room 3-208. Appointments may be made only on the day of the open hours.

Professor Robert Solow will speak in a lecture entitled "**The Economic Facts and Fantasies of the 1984 Presidential Election**". Sponsored by UEA. 4 pm in Room 9-150.

Thursday, Nov. 1

The Quality of Student Life at MIT: the third in a series of four meetings sponsored by the Office of the Dean for Student Affairs. The meeting will be held from 7 to 8:30 pm in the Mezzanine Lounge of the Student Center. Let us hear from you!

"**Deregulation of AT&T Communications**", a seminar sponsored by MIT Communications Forum. Featured speakers are Lee L. Selwyn, Robert Willig, and Bruce Owen. The forum will be held from 4-6 pm in the Marlar Lounge, Bldg. 37-252, MIT, Cambridge.

Students interested in law: Professor Carol Liebman of Boston College Law School will be on campus to speak with interested students. All are invited. To sign up please phone Ann at x3-4737.

Sunday, Nov. 4

There will be a **five mile run for peace** with runners from Japan at 1 pm in Jamaica Plain. Call 524-6093 for more details about the Fourth Annual Human Race to End the Arms Race.

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the MIT Graduate Student Council and the International Students Association

invite you to

HALLOWEEN PARTY

Saturday October 27
Walker Memorial
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\$1 admission
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If you're one of these top performers, we'd like to meet with you at our informal technical presentation.

DATE: October 31

TIME: 5 pm

PLACE: See your Placement Office

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CAMPUS INTERVIEW DATE:
November 1

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Listings

Wednesday, Nov. 7

The Quality of Student Life at MIT: the last in a series sponsored by the Office of the Dean for Student Affairs. The meeting will be held from 4:30 to 6 pm in the Mezzanine Lounge of the Student Center. Let us hear from you!

A career workshop entitled "Careers in Public Relations and Advertising", sponsored by the Jewish Vocational Service, will be held from 7:30-9:30 pm at Gosman Jewish Community Campus, 333 Nahanton Street, Newton Centre. Admission is \$5. For more information, please contact Gail Liebhaber at 965-7940.

Thursday, Nov. 8

A two-part workshop entitled "Help Yourself to a Career Change", sponsored by the Jewish Vocational Service, will be held from 7:30-9:30 pm. The second session will be held on Nov. 15. Fee is \$15. To pre-register, contact Meryl Glatt, 723-2846 or Emily Kirschen, 965-7940.

"The Childbirth Experience: Current Controversies", the first in Beth Israel Hospital's 1984-85 "Women's Health" discussion series. The discussion will be held from 7-9 pm in the Grossman Conference Center of Kirstein Hall, Beth Israel Hospital, 330 Brookline Avenue. Open to the public and free of charge. For further information, call 735-4431.

The Oxford and Cambridge Society of New England invites all members of the MIT community who are Oxbridge graduates to a reception from 5:30-7:30 at the Signet Club, 46 Dunster Street, Cambridge.

Ongoing

"This Mighty Dream", a multimedia history of popular movements for change in the U.S., is scheduled to run in Boston from Oct. 25 to Nov. 9. The exhibit, which was prepared by the Smithsonian Institute, will be housed at the University of Massachusetts-Boston College of Public and Community Service at 100 Arlington Street, Boston. Open to the public. For further information, call 266-7100.

Do you like to read? Do you enjoy math? Become a S*T*A*R volunteer. School Volunteers of Boston offers orientation and support to college students who have a few hours per week to spend with elementary, middle or high school students in schools convenient to college campuses. For information, call 451-6145 or visit our office at 25 West Street, downtown Boston near Park Street.

The Chinese Intercollegiate Choral Society meets Sundays 3-5 pm in W20-491. Anyone who likes to sing and can speak any Chinese dialect is welcome. For further information, call Isabel Chiu at 258-5233.

Students and faculty are cordially invited to flex their vocabularies at the Boston Scrabble Club — any Monday evening in the Teachers' Lounge of the Jackson-

Mann Community School, Union Square, Allston. The club features "social Scrabble" for nervous newcomers, as well as officially-rated competitive play for the real addict. Club hours are 6:30 to 9:30 pm. For more information, contact P.G. Kaufmann at 784-5325.

For runners looking forward to the numerous marathons this fall but not the arduous solo training sessions, the MetroParks Running Center in Boston has an answer. On Sundays at 9 am, runners training for marathons can get together and run long distances of 15 to 22 miles. Open Monday through Friday from 7 am to dusk, the Running Centre offers changing rooms and showers free of charge. For further information, call 523-9746.

Interested in children? Teenagers? Innovative education? The Cambridge School Volunteers needs you as a tutor, classroom aide, big brother or big sister, or a mini-course teacher. Work with any age student in any subject. Credit may be available. For more information, call 498-9218.

The MIT Dance Company School of Boston presents its ninth year of dance education, offering two fifteen week sessions from September to May. MIT continues its extensive Children's Program for ages 3 to 14, as well as teen and adult classes in modern and jazz. Classes run Monday through Saturday with levels ranging from novice to professional. Aerobics is also offered in the evenings. The School is located at 551 Tremont Street in the Boston Center for the Arts. For more information, please call 482-0351.

The Peace Corps is offering skill-training for programs utilizing the backgrounds of college graduates with mathematics and science minors. Peace Corps volunteers serve for two years. During their service they receive a generous living allowance, paid travel, training and health care. A post-service readjustment allowance of \$175 per month is paid to each volunteer. For information on Peace Corps service, call 223-6366 or 7366, or write PEACE CORPS, 1405 McCormack POCH, Boston, MA 02109

Announcements

All students should obtain a final examination schedule at the Information Center, 7-121. Examinations not listed or a conflict in examinations must be reported to the schedules office, E19-338, by Friday, November 2.

The Dept. of Athletics has extended the evening closing time at the Alumni Pool. The new open swim hours will be from 7 to 8:30 pm Monday through Thursday effective Thursday, Nov. 1.

Notice to certain members of the class of 1985 and 1986: To avoid misunderstandings or complications which might slow progress toward your degree, please file a Humanities, Arts, and Social Sciences Concentration Proposal form with your chosen field office after discussing your program of study with a Field Advisor. This should have been taken care of before the end of your sophomore year. If you have any questions please call the HASS Information Center, x3-4441.

Students interested in applying to be R/O '85 Coordinator should attend an informational meeting on Wednesday, October 24, at 5 pm, in Room 7-106.

A.I.C.U.M. (Association of Independent Colleges and Universities of Massachusetts) is attempting to document the activities of its member colleges with public school systems. If, as a member of the MIT Community, you are working with the Boston or Cambridge Public Schools, please call Alan Dyson, x3-7063.

Craft dealers wanted for the Jackson Mann Community School's Third Annual Holiday Crafts Fair on Saturday, November 3, 1984 from 10 am to 4 pm at 500 Cambridge St. Allston. If you would like an opportunity to display and sell your wares, please call Rose Sabbag, 738-2770 to reserve a table or to answer any further questions.

Attention Ugly People: this year's UMOC (Ugliest Man On Campus) contest will start on Halloween day and run through November 9. Ugly people on this campus may compete by registering with APO and then collecting votes (a penny a vote). This year's money will go to Rosie's Place, a shelter for homeless women and their children in Boston that was ravaged by fire in April. For more information about how you can become UMOC '84, call APO at x3-3788.

All students interested in applying to law school for fall '85 should make an appointment in the Preprofessional Advising Office. Phone Ann at x3-4737 or stop by Room 12-170.

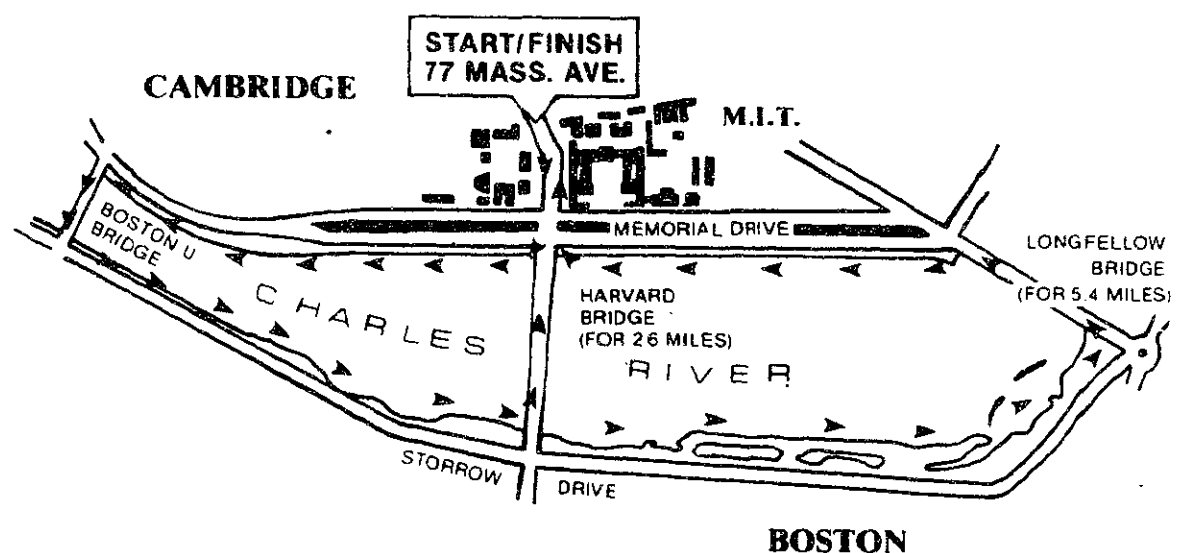
Join us for an afternoon jog

On Tuesday, November 6th and Wednesday, November 7th, representatives of General Electric will be interviewing on your campus. Please contact your placement office for schedule information.



If you're interested in meeting our people in a completely informal setting... to find out more about the General Electric Company... it's technical work and career opportunities... put your track shoes on and join us and pick up an MIT/GE runner's shirt in the process. If for some reason you can't make it... just remember your interview with General Electric on Tuesday or Wednesday.

Our Technical Recruiters would like you to join them for an afternoon jog on Monday, November 5th. We'll begin at 77 Massachusetts Avenue at 5:30 p.m., jog down Memorial Drive to the Boston U. Bridge, cross over to Storrow Drive and head down to the Longfellow Bridge, cross back over to Memorial Drive and finish up our 5.4 mile jog back at 77 Massachusetts Avenue. Some of our managers will turn back up Massachusetts Avenue at the Harvard Bridge for a 2.6 mile run.



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November 8, 1984 for BS/MS

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To arrange an interview, see your career planning and placement office. If you are unable to meet with our recruiters, send your curriculum vitae to: Kimberly-Clark Corporation, 401 N. Lake Street, Neenah, WI 54956. An equal opportunity employer m/f.



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ARTSARTSARTSARTSARTS

Goodman and Symphony Orchestra Inspired in romantic Rachmaninoff Concerto

MIT Symphony Orchestra, October 20, Kresge Auditorium; Banchetto Musicale, October 19, Jordan Hall; Boston Premiere Ensemble, Jordan Hall, October 21.

Daniel Goodman put in an inspired performance of Rachmaninoff's *Piano Concerto No. 2* on Saturday night. Goodman, a Physics graduate student and also co-principal cellist of the MIT Symphony Orchestra, has been playing Rachmaninoff for two hours a day over the past year. He is drawn to the "beautiful themes" of Rachmaninoff and is particularly attached to the second piano concerto because it is "at the height of romantic concerti." To judge by his deep involvement on Saturday night, Goodman does indeed have a romantic relationship with the music.

The soloist quickly developed a disciplined approach which carried with it a relaxed and thoughtful lyricism. The orchestra under David Epstein, sparing no effort at emotional outpouring, furnished the vital glue to hold the piece together, the firm command of united strings providing a warm yet strong backdrop for the pianistic fireworks soon to develop.

It is hard to describe the beauty of the multi-textured opening of the second movement. One dwelt on each carefully-placed note from the piano; there was delicacy in wind playing. A wonderful softness among the winds enticed the audience to float off into the dreamy ecstasy of Goodman's captivating piano playing.

There were problems of balance in the third movement: the piano was at times overwhelmed by an over-enthusiastic orchestra. Nonetheless, there was a majestic touch to the build-up of energy, and a depth of feeling to the inextricably inter-

twined piano and orchestra that brought the music of Rachmaninoff alive with an energy and style the MIT Symphony Orchestra can call their own.

The performance of Beethoven's *Symphony No. 6, Pastoral* was less happy. The orchestra never developed the detailed finesse needed to make this piece breathe. The over-formal first movement led to an eccentrically-rendered second movement, sprinkled with uncomfortable moments when balance came apart. The strings, which had so effectively let their feelings go in the Rachmaninoff, failed to convey the subtlety necessary to bring the *Pastorale* off successfully. Beethoven's delicate coloration was largely lost on a rather harsh-sounding ensemble, although there were some nice bird-imitation effects on winds.

One sensed power in the approach to the storm and some excitement when it arrived. The thanksgiving after the storm was played with an ease which had earlier been lacking. But, too much of the performance was marred by choppy string playing, scrappy brass, and a general lack of delicacy; a shame, given the enormous potential of our unusually talented Symphony Orchestra.

Banchetto Musicale began their Jordan Hall concert last Friday with Haydn's *Horn Concerto No. 1*. Despite a brilliant opening, there were patches of awkwardness when the ensemble sounded decidedly off-color. The natural horn is a fiendishly difficult instrument to play and, despite some touches of virtuosity, Jean Rife's performance had a rough edge which detracted from enjoyment of the work.

The orchestra set up an adrenal pace for the first movement of Haydn's *Symphony No. 86 in D*. There was unevenness to the opening of the second movement, although this was more than made up for by the delightful invitation to the ball of the third movement: a chirpy playfulness carried the piece to a charming finale.

Daniel Stepper played violin solo, Marcus Thompson viola in the last item on the program, Mozart's *Sinfonia Concertante in E flat for violin, viola and orchestra*, K. 364. Daniel Stepper, the smoother of the two soloists, played with an easy virtuosity; Marcus Thompson, perhaps, had a more intimate relationship with the work: some of his measures had a breathtaking beauty. But, despite some inspired solo work, the performance never really came together: the different approaches of the soloists didn't quite gel, and ensemble work under conductor Martin Pearlman was less than inspired.

The weekend closed with a bang on Sunday night with a performance which can only be described as pure delight: the Boston Premiere Ensemble staged Haydn's opera *Die Feuerbrunst* (House Afire) with puppets at Sanders Theatre. Perhaps the greatest pleasure came from the spirited attack of an orchestra bubbling with the good humor of the work. There was a brightness to the music of F. John Adams' ensemble guaranteed to keep the audience smiling even without the activities on stage. Singing was of a high standard, with James Coelho putting in a particularly lively performance as the love-seeking Hanswurst. Coelho's singing of the aria "If I can't have my Columbine" was particularly attractive, enhanced by mischie-



vous musical games deftly executed by the orchestra.

The puppets on stage cemented the laughter. My favorite was the ghost, a character with a seemingly bright career as a rock star ahead of him. The new dialogue of Andy Gaus, full of good mirth, sped the show along.

Jonathan Richmond



Tech Photo by Stephen A. Brobst

The Drive plays at the SCC-sponsored Rockfest Friday night.

Animals 20 years later

Rip it to Shreds — The Animals' Greatest Hits Live, The Animals on IRS Records.

Last year, the original Animals (not to be confused with the late-'60s band of the same name, with whom they have in common only vocalist Eric Burdon) staged a reunion tour. It was about time, as Tom Petty, David Johansen, and others were making hit recordings of old Animals songs. The same personality problems which broke up the band sixteen years earlier took hold again, and it's unlikely the Animals will ever attempt another get-together.

This album records an inspired London appearance last December. While it's technically rough in spots (especially the performance of drummer John Steel, who seems to lose it totally once or twice), *Rip it to Shreds* performs far above the usual reunion album.

Most of the material on this record is vintage Animals, but there's also a new tune, "It's Too Late," in which a characteristically urgent Burdon screams out his worries: "I gotta get a job . . . Are they gonna start a real war?" Keyboardist Alan

Price contributes "O Lucky Man," written as a film score during his successful solo career in the early '70s.

A rocking "Boom Boom" and "It's My Life" with its unmistakable bass line are every bit as good as the versions from twenty years ago, and prove that this band still has the touch. Burdon does his best black-blues-singer act on a sparsely instrumented version of Sam Cooke's classic "Bring it on Home to Me." An overlong (7½ minutes) "We Gotta Get out of this Place" makes a questionable art-rock start, followed by a screeching vocal intro recalling Burdon's days with the band War; two minutes later it finally gets off the ground.

The only real low spot is a listless "House of the Rising Sun," which just sounds like one too many times for everyone involved. Otherwise, Hilton Valentine's guitar solos, Price's keyboards and especially Burdon (who never misses the chance to screech or howl instead of sing) make this required study for the rock-and-roll major.

V. Michael Bove

Pat Metheny is Here!

First Circle by Pat Metheny on ECM Records.

"Pat Metheny is here! Pat Metheny is here!" Exactly four people in the Tech Coop record department looked up before returning to their own purchases.

"Metheny's new album is out!" my girlfriend, calling long distance from Philadelphia, screamed.

This review may be slightly biased.

Pat Metheny is one of the few young performers who took the jazz-fusion music of the 1970's and replaced rock guitar chords and fast, synchronized passages with mellifluous, echoed synthesizers and mellow "grooves." A number of critics, including Metheny himself, claim that the instrumental performances of the Pat Metheny Group are far from brilliant, although improving. However, with his sidekick/pianist Lyle Mays, guitarist Metheny has created a compositional format that appeals to a large audience because of melodic, not technical, merit.

Pat Metheny's ongoing success can be attributed to his singular progression and development of sound with each album. Each critic's praise/censure for the albums

is in direct proportion to the amount of pop, Latin, folk, bop and avant-garde influence that is added to the group's distinctive sound. This latest record, *First Circle*, takes a decidedly Latin/American folk turn.

"Yolanda, You Learn," a typical Metheny vamp, contains many of the distinguishing elements of *First Circle*. New drummer Paul Wertico opens the tune with percussive eight notes on the snare drum, then proceeds to rock as well as swing his way through the song. Pedro Aznar, a 20 year old South American wonder who plays classical guitar, percussion, synthesizer, and tympani, vocalizes the melody of "Yolanda" with a series of "oh"s, "yeah"s, and "ah"s, accompanied by his synthesizer. Lyle Mays "comps" honky-tonk style, and Mays and Metheny each solo their happy hearts out.

Other compositions on this album include "If I Could," a ballad much like the title track of the *Travels* album, "The First Circle," (a la "San Lorenzo"), which contains a Lyle Mays solo that should be noted for its wonderful improvised chordal accompaniment that the pianist provides

for himself, and "Praise," a folksy tune with Hammond organ that feels like it could replace "I'd Like to Teach the World to Sing" and the theme from Walter Lewin's 8.01 physics show on cable TV at the same time.

Are the songs enjoyable? You bet. They are all different, uplifting, and driving. The second beautiful ballad, "Mas Allá (Over There)," features Spanish lyrics that don't have to be understood to be felt. The haunting, driving "Tell It All" has a minor to major tension-release melody that is difficult not to like. Is the album innovative and daring? Not very. The songs are simply too light and folksy (perhaps dangerously so) to make any new profound statements in the jazz or compositional world.

First Circle does have some technical/experimental merit. The opening composition, "Forward March" is a Dadaist view of John Philip Sousa. The tuba is a semitone out of tune, the trumpet blares ridiculously, and the flautist can never quite reach the upper register; the bass drum might be played by a trained chimp. All of the above, though, (excluding the bass drum), is a precisely-planned display gen-

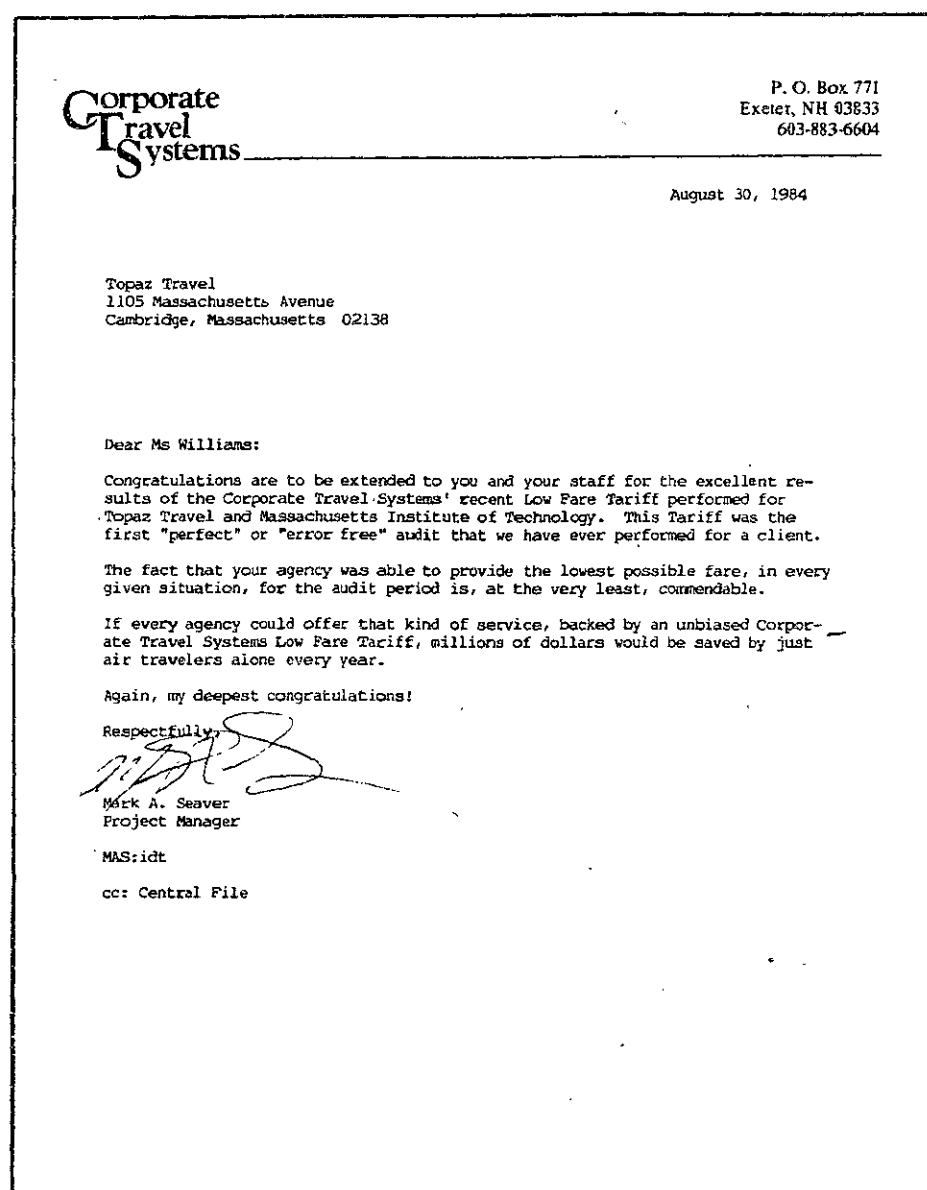
erated by Pat's single guitar note processed by a thirty thousand dollar synthesizer. Fear not: "Forward March" is not representative of the entire album. The rest of the tangles produced by Metheny, guitar and Synclavier synthesizer are an order-of-magnitude more beautiful than anything ever produced on "guitar" before.

Attempting to put bias aside, I must mention that a friend who listened to the album at my suggestion commented that the music was truly enjoyable, but it was all the same. This is true to a good degree. Pat Metheny has been acclaimed "Influential Jazz Sound of the 70's" by a international music publication and *Guitar Player* magazine has commented that he, along with Weather Report, deserves the "love 'em or leave 'em but you can't ignore 'em" award of the decade. I just happen to be one of the people who love his sound; you may or may not be. *First Circle* may not be an innovative milestone in progressive music, but successfully upholds the tradition of Metheny's albums and creates a smile a mile wide.

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Announcements

The National Research Council plans to award approximately 35 Postdoctoral Fellowships for Minorities in a program designed to provide opportunities for continued education and experience in research for American Indians and Alaskan Natives, Black Americans, Mexican Americans/Chicanos, and Puerto Ricans. Awards will be made in the behavioral and social sciences, humanities, engineering, mathematics, physical sciences, and biological sciences, and for interdisciplinary programs comprised of two or more eligible disciplines. Deadline for submission is January 16, 1985. All inquiries concerning application materials and program administration should be addressed to the Fellowship Office, National Research Council, 2101 Constitution Avenue, Washington, D.C. 20418.

* * * *

The American Institute of Steel Construction has announced that eight graduate fellowships of \$5000 each will be awarded in 1985 by The AISC Education Foundation. The grants will be awarded to graduate civil or architectural engineering students proposing a course of study toward an advanced degree related to fabricated structural steel. Applicants must be U.S. citizens. Deadline for receiving applications is March 1, 1985. To obtain applications, write AISC Education Foundation, 400 N. Michigan Ave., Chicago, IL 60611, or call 312-670-2400.

* * * *

Seniors who wish to apply for graduate work in the Department of Electrical Engineering and Computer Science during 1985 are urged to apply by November 1, 1984. Applications may be picked up in Rooms 38-444 and 3-103.

* * * *

National College Poetry Contest, Fall Concours 1984, is offering \$200 in cash and book prizes and free printing for all accepted poems in the American Collegiate Poets Anthology. For more information, write International Publications, P.O. Box 44044-L, Los Angeles, CA 90044.

* * * *

The MIT Speech and Debate Society is sponsoring a **Fall Speech Contest**. Winners will receive cash prizes. We are now canvassing the MIT student community for interests and suggestions. If you have the slightest interest in talking for fun and profit, call Lisa x5-8922, Nick x5-6352, Merryl x5-6354, or Christine x5-8360.

* * * *

The **Christian Science Monitor** is sponsoring an **essay contest** challenging its readers to come up with possible scenarios that could lead to world peace in the next 25 years. Students and faculty at colleges and universities around the country are also invited to participate. Participants might consider such factors as economic conditions, the role of moral leadership and world armaments. Essays will be judged on the feasibility of the ideas they contain and will be expected to show a knowledge of the framework of international relations in the world today and the process by which those relations are bettered. Entries of not more than 3,000 words in English, French, German, or Spanish will be accepted. The best three will be printed in The Christian Science Monitor. Entries should be postmarked not later than December 31, 1984 and sent to PEACE CONTEST, The Christian Science Monitor, One Norway Street, Boston, MA 02115.

The Quality of Student Life at MIT

The Office of the Dean for Student Affairs announces a series of four meetings in preparation for a visit by the Visiting Committee on Student Affairs.

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THE RAND GRADUATE INSTITUTE (RGI) invites applications for its doctoral degree program in policy analysis. Deadline for submitting applications for 1985-1986 is February 1, 1985. RGI, which is fully accredited by the Western Association of Schools and Colleges, is an integral part of the Rand Corporation. Its curriculum consists of interdisciplinary study, combined with on-the-job training (OJT) leading to the award of the PhD in Policy Analysis. Students receive OJT support equivalent to doctoral fellowships. Fellowship support is also available for applicants with special emphasis in health policy and Soviet international behavior. A master's degree or equivalent post-bachelor's degree, training and experience is required for admission.

A representative of the Rand Graduate Institute will be at Career Planning and Placement, Room 12-170, on Friday, October 26, 1984.

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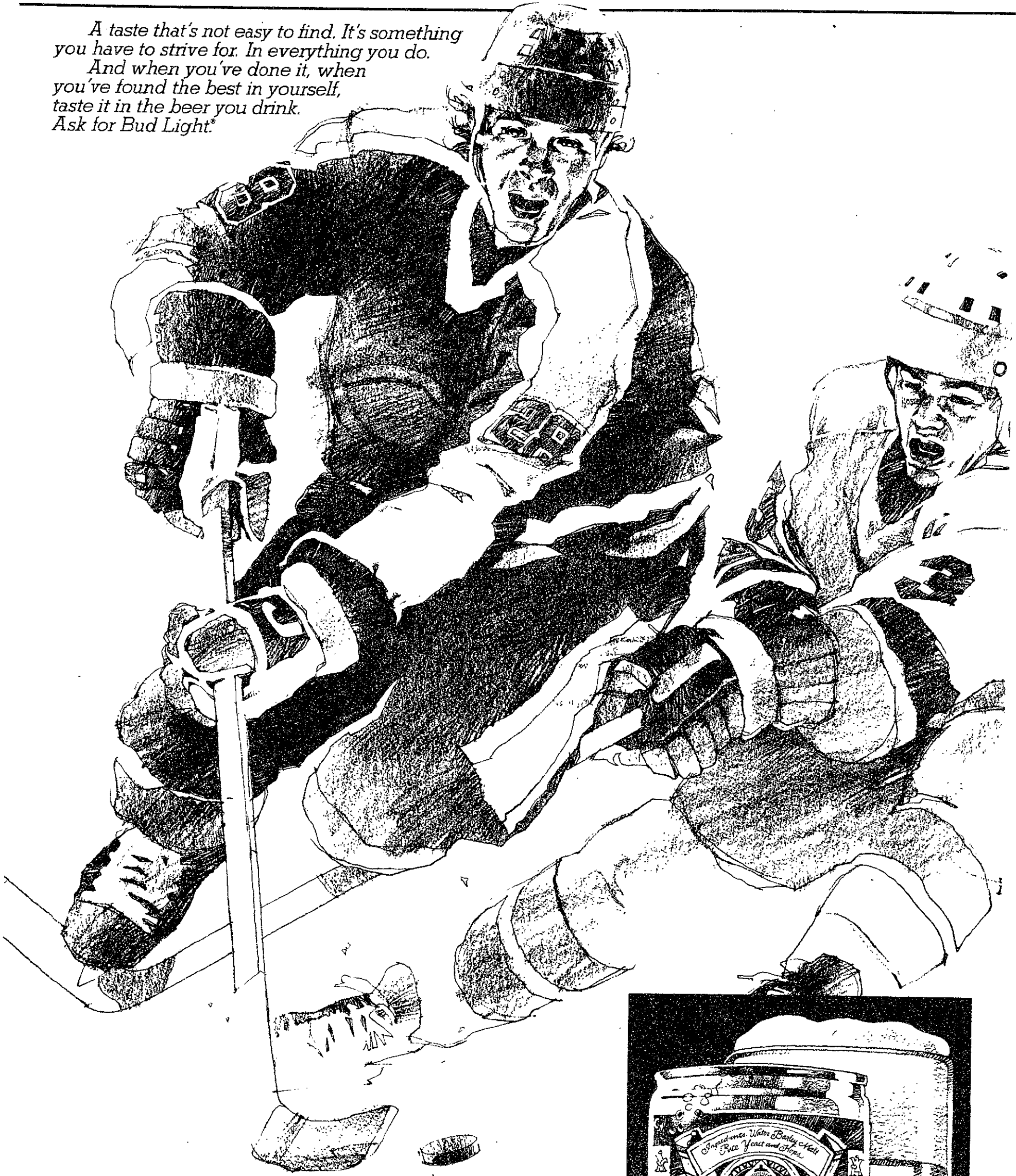
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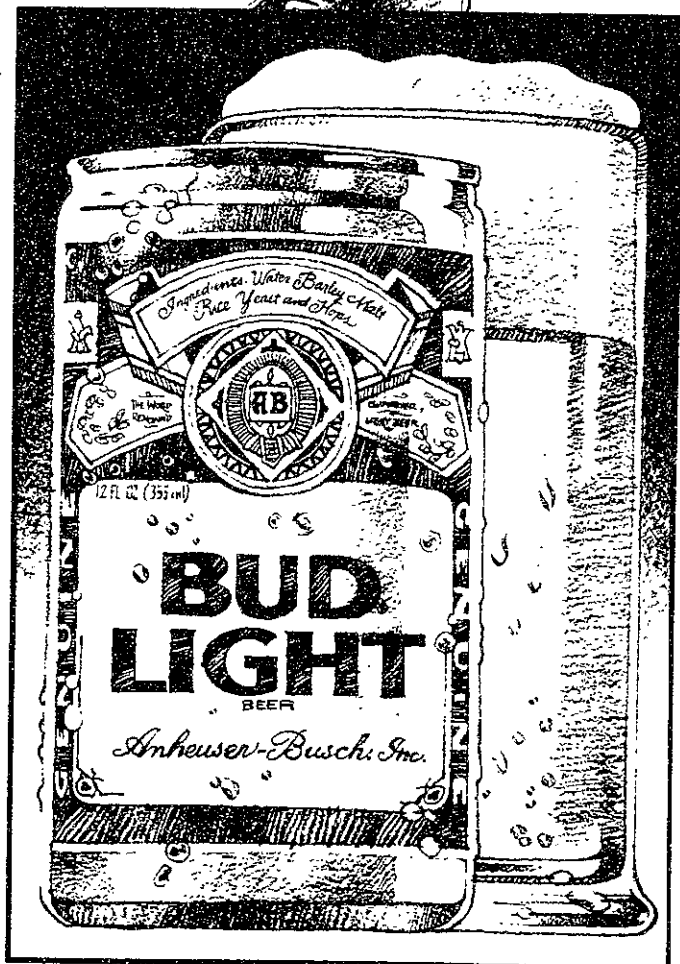
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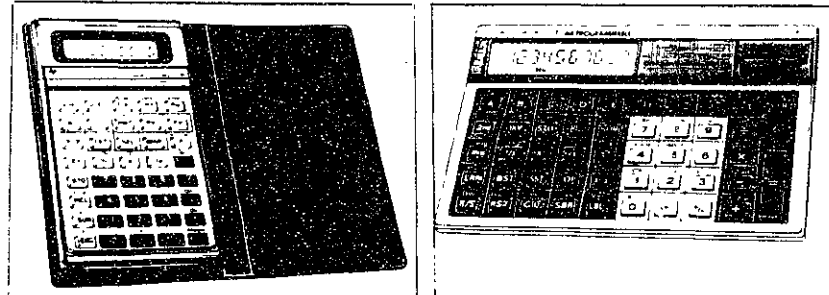
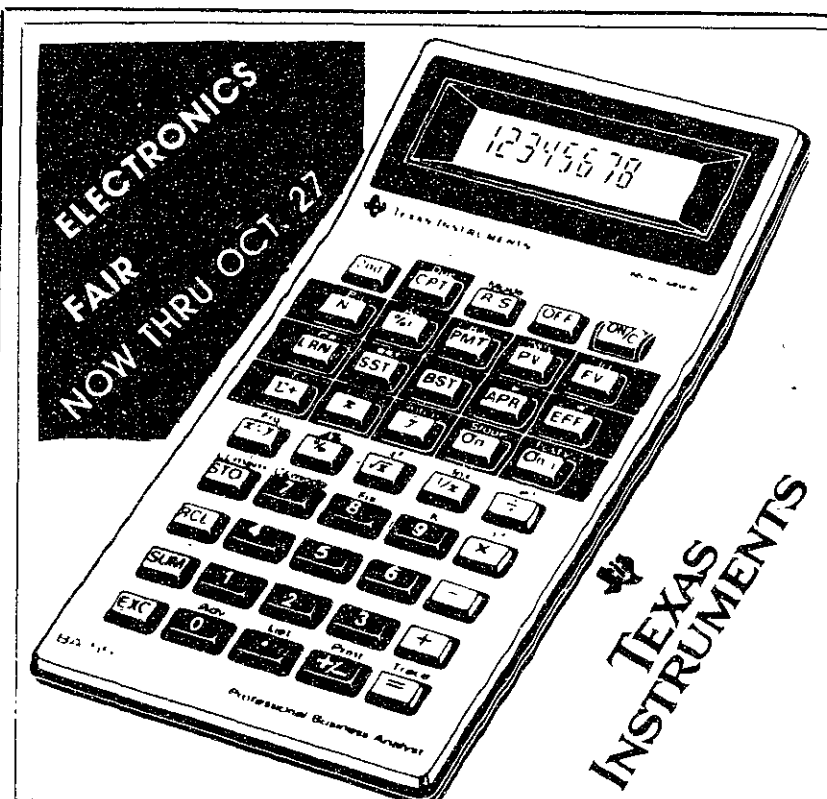
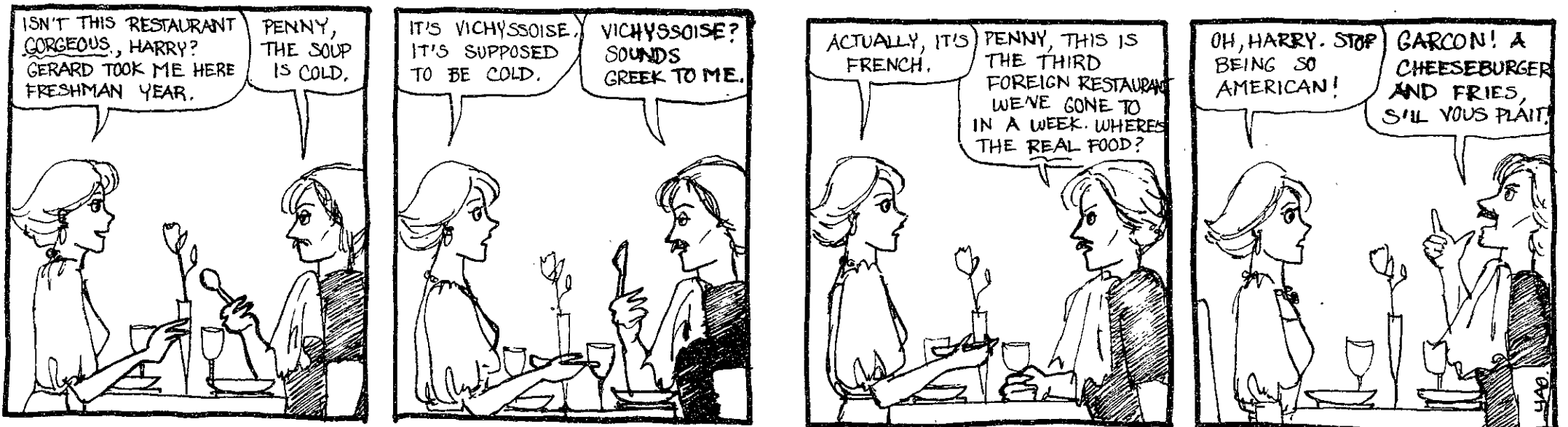


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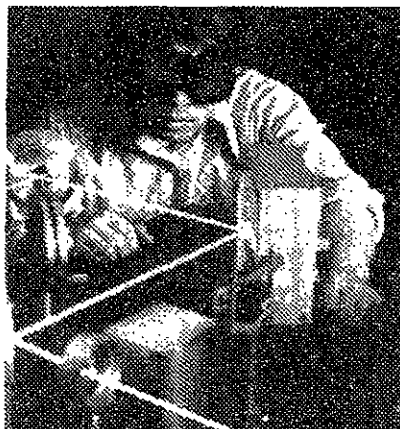
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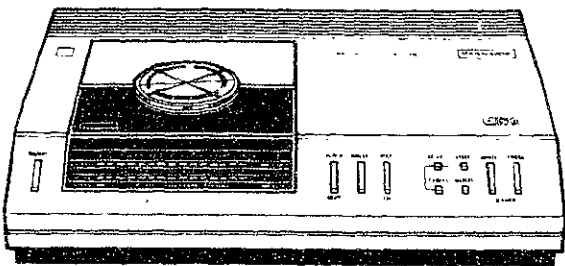
(Whether or not you're at our Information and Sign-Up Day, you are invited to hear a special IBM interview techniques presentation on Monday, October 22nd in Room 4-270 from 7:30-8:30 pm and a technical marketing careers presentation on Tuesday, October 23rd, in Room 4-159 from 7:30-8:30 pm. Refreshments will be served at both presentations.)

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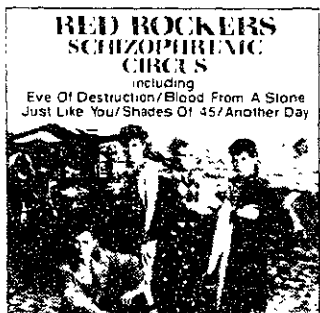
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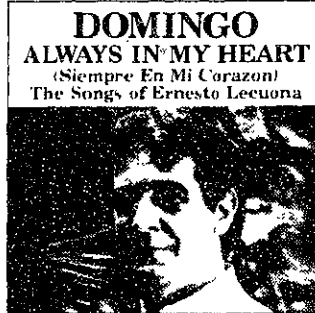
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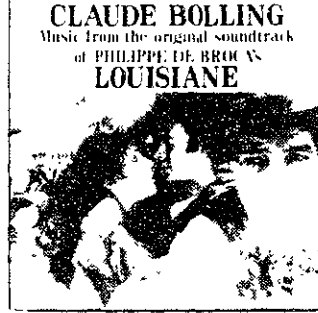
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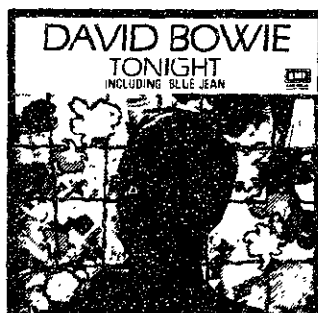
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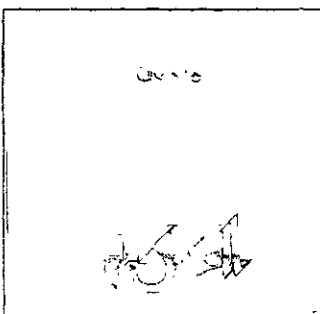


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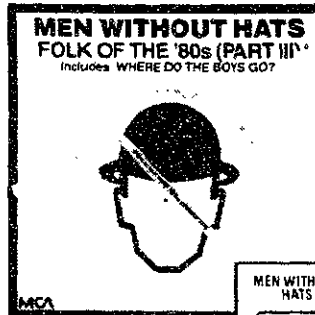


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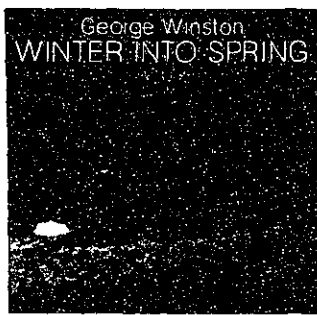
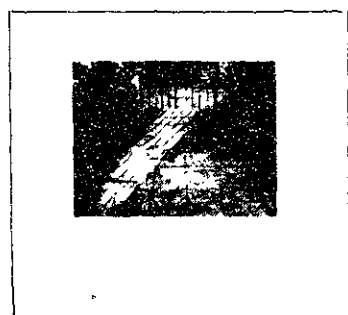


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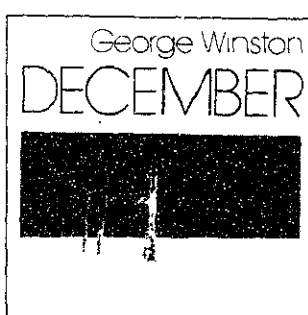
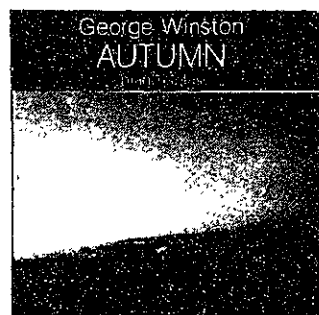


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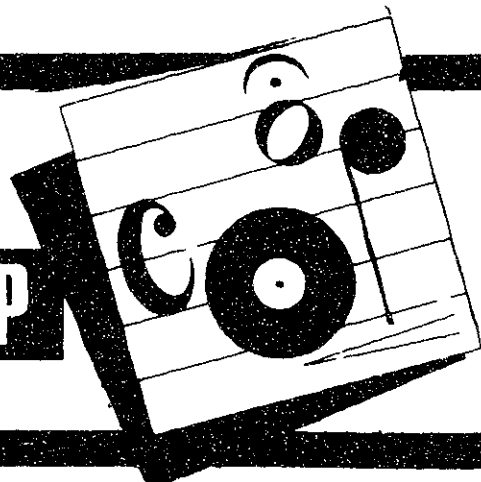


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Edgerton talks on Stonehenge

By Amitabh Lath

He is the inventor of the strobe light and developer of high-speed and underwater photography. He is an MIT professor who graduated from the Institute way back in 1927. Even a lecture hall bears his name.

But when Professor Harold "Doc" Edgerton '27 spoke Thursday evening, he became the Entertainer to the 300 students who came to see his lecture on Stonehenge.

"It's a bunch of big rocks," was the way he described the neolithic structure in northern England. "The reason they're still there is that they weigh fifty tons apiece."

Stonehenge is a prehistoric ruin in Wiltshire thought to have been constructed between 1900 and 1700 B.C.

"How many of you have seen Stonehenge?" Edgerton asked. A solitary arm rose amid the crowd. "One? Just one?" he responded. "Good! I can tell you practically anything, can't I?" And he did.

Doc first encountered Stonehenge during World War II, when the army wanted to use his strobe light for night reconnaissance. The system was tested in Great Britain, and the only photographable structure not classified secret was Stonehenge.

He explained how the rocks stayed on top of each other, "There's a bump on this piece, and a hole in that one. Now, how that one is lifted over this, well,

that's a slight engineering problem."

Edgerton showed slides he and his son Bob had taken during an impulse trip to Stonehenge en route to France.

Why France? "There was this young man from France who wanted to take pictures of the ocean," Edgerton explained, "a young man with a big nose by the name of Jackie Cousteau." This young man invited Doc up to his ship the *Calypso* to take underwater pictures at a depth of 2000 feet.

The angle of the sun and the alignment of the rocks combine to make the summer solstice on June 21, a special day to view the sunrise from Stonehenge. Since the solstice occurred during the stopover in England, Edgerton decided to take advantage of the opportunity and visit Stonehenge.

He and his son ended up spending the entire night on the rocks of Stonehenge, because all of the hotels in the area were booked.

Edgerton closed the show with a home movie he and Bob took at Stonehenge. The film consisted mainly of fireworks, which illuminated the stones, with a special guest appearance by a bobbie who tried to chase them off the property. The whole film was shot at about a frame a second.

The Lecture Series Committee sponsored the presentation, which was part of the Edgerton Lecture Series.

Gary Hart speaks at Harvard rally

(Continued from page 1)

comfortable speaking for John Kerry.

Kerry is needed in the Senate, said Hart, whether or not Mondale is elected. If Mondale wins, he will need Kerry to "restore decency and fairness."

On the other hand, if Reagan holds onto his lead, Massachusetts will need Kerry to express its concerns on "the environment, education, food stamps, Guaranteed Student Loans for young people, an end to the arms race, and politics based upon Democratic principles and ideas."

He labeled Ray Shamie as a "Reagan rubber-stamp, who rubber-stamped an unfair tax cut, a two hundred billion dollar deficit, and rubber-stamped a runaway dangerous arms race."

John Kerry also criticized the president's campaign more than he lauded Mondale and Ferraro's.

"Four people debated, and three beat the president," he said. Geraldine Ferraro "kicked a little class into George Bush," he commented.

The Republicans are "making selfishness fashionable," said Kerry. Reagan "wants the country to believe that the election should be the answer to one question: 'Are you better off than you were four years ago?'"

The voters should "look to America's future." The real question, he said, is "Are we in a position today to be able to guarantee we will be better off ten years from now?"

Kerry, a decorated war hero who was called a traitor by the John Birch society for leading an anti-Vietnam movement, compared Reagan's foreign policy in Lebanon and Nicaragua to those of the late 1960s. He called the president guilty of acts of "international terrorism" and observed that Reagan "has not learned his lesson from Vietnam."

"Mondale and Ferraro are willing to admit that the Democratic party has made mistakes in the past, especially in not ferreting out waste, fraud, and abuse," but this should not overly influence the electorate, Kerry added.

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sports

Football drops homecoming to top-ranked Worcester St.

(Continued from page 20)

came on an 18-yard pass to Ekberg, which he took away from a Worcester defender.

The touchdown was the last that MIT saw of the Lancers' end zone. Fumble recoveries by Rice and linebacker Mark Hanson '88 went for naught, as turnovers and injuries began to take their toll.

"By the end of the first half," said Engineer head coach Dwight Smith, "we had lost an entire side of our offensive line."

The injury to Broecker did not keep him out of the second half, but linebacker Eden Warner '85 fractured his finger and is out for the rest of the season, and off-

Worcester, 27-14

Lancers	3	14	0	10	-	27
MIT	0	7	7	0	-	14

Worcester—FG Rockwood 35
MIT—Broecker, 7 run (Gasparini kick)
Worcester—Smith, 71 run (Rockwood kick)
Worcester—Dean, 18 pass from Mahoney (Rockwood kick)
MIT—Corless, 18 pass from Broecker (Gasparini kick)
Worcester—FG Rockwood 26
Worcester—Dean, 59 pass from Mahoney (Rockwood kick)
Attendance—500

	Worc.	MIT
First downs	14	15
Rushes-yards	36-117	52-160
Passing yards	180	70
Return yards	107	37
Passes	25-12-1	26-9-3
Punts	3-91	7-231
Fumbles-lost	4-4	3-1
Penalties-yards	5-45	9-103

Individual Leaders
Rushing—Worcester State, Smith 12-107, Lyons 1-13, MIT, Adams 10-46, Curran 8-38.
Passing—Worcester State, Mahoney 24-12-0-180, MIT, Broecker 25-9-3-70.
Receiving—Worcester State, Dean 4-104, Smith 4-20.
MIT, Corless 2-35, Curran 2-9.

sive tackle John Einhorn G was sporting a sling after the game.

The Engineer defense, one of the toughest against the rush in the league, saved the team from a blowout. Rice, with his two fumble recoveries, and defensive backs Shane Arnold, '88, and John Dawley, '87, highlighted the defensive play.

The defense suffered only two

major lapses, allowing the 71-yard scoring run and a 59-yard touchdown pass in the fourth quarter.

The loss drops the Engineers' record to 3-2 overall and 2-2 in conference play. The squad's next game is Saturday, when the Engineers visit defending two-time national club champion Bentley College.



Tech Photo by Robert Winters

The MIT Football Cheerleading Club performs for the crowd at half-time of the homecoming game Saturday.

Field hockey tramples Elms

(Continued from page 20)

goal 8:15 into the second half. Forward Martha Beverage '87 added an unassisted insurance goal from the right side 11:26 later to make the final score 3-1.

Martin-Madden is pleased with her team's performance and progress this year, despite its 3-5-1 record. "The season has been a rebuilding year," she said. "We lost many seniors and many players from last year."

"Although we are a fairly inexperienced team, a lot of hard work and patience are starting to pay off," Martin-Madden commented. "The team has started to play together toward the end of the season."

"The players are learning their positions which should provide a good base for the future," she noted, adding that she is looking forward to starting next year at a higher level.

The team's last home game of the year is today at 3:30 pm against Barrington in Steinbrenner Stadium.

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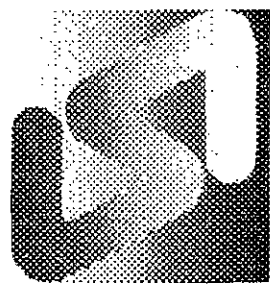
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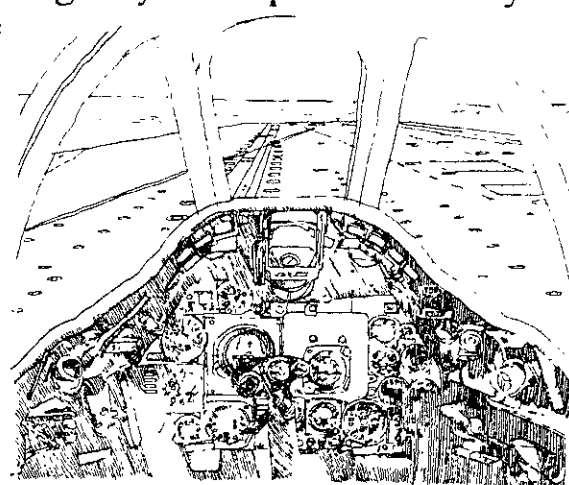
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sports

Lightweights win in Head of the Charles



Tech Photo by Bill Flowers

The MIT women's championship eight pulls in to the finish of the Head of the Charles course Sunday. The crew finished 18th, with a time of 18:30.3, two minutes behind winning South Niagara Rowing Club.

Football loses homecoming

By Janice Marchiafava

The football club lost its second game in a row Saturday, falling 27-14 to the Worcester State Lancers in the annual homecoming contest.

Strong play by the MIT defense was again offset by the inability of the offense to execute consistently.

The Engineers were plagued by mistakes from the outset. A fumble, a dropped pass, and another incomplete pass combined to effectively kill the first MIT drive.

The second drive was more of the same, as quarterback Dave Broecker G was sacked twice for a loss of 16 yards.

Rich Rice '87 alertly fell on a fumble — one of five turnovers forced by the Engineer defense — to set up a scoring opportunity in the second quarter. This time the team was able to capitalize.

Twice on the way to the end zone, MIT made tough fourth-down conversions to keep the drive going. The touchdown came on an eight-yard run by

Broecker with 11:39 left in the quarter to put the Engineers ahead, 7-3.

The Lancers' John Smith ended MIT's only lead of the game less than a minute later with a 71-yard touchdown run.

The remainder of the half was characterized by frequent changes of possession, with mistakes by both teams. An interception of a Broecker pass intended for Hugh Ekberg '88 resulted in another Worcester State touchdown with four minutes remaining in the half.

MIT defensive end Chris Moreno '88 neutralized a second Worcester interception when he recovered a Lancer fumble. The opportunity was wasted, however, as the Engineers moved backward on a 23-yard penalty and an incomplete pass.

MIT also lost the services of its quarterback for the remainder of the half, as Broecker suffered a partially separated shoulder when he was hit during a scramble.

Linebacker Nick Nowak '85 contributed another turnover

when he intercepted a halfback option pass with about a minute left in the half, but once again the offense was unable to reach the end zone.

The Engineers came back seemingly revitalized in the second half, scoring a touchdown on their first possession. The score

(Please turn to page 19)



Tech Photo by Robert Winters

MIT quarterback Dave Broecker G hurls a pass downfield during Saturday's homecoming game against Worcester State in Steinbrenner Stadium.

X-country wins 2

By Robert Zak

The men's cross country team put the finishing touch on its unbeaten regular-season record, defeating Williams and Tufts in a meet at Franklin Park Saturday.

The MIT harriers ran aggressively against the Bears from Williams and the Tufts Jumbos, despite the unseasonably warm weather. The heat took its toll; two runners from Williams were unable to complete the five-mile course.

The meet came down to a two-way competition between MIT and Williams, as the Jumbos were unable to keep up with the other schools.

The final score was MIT 23, Williams 38, and Tufts 78. The win gave MIT its revenge over the Bears. The roles were reversed in the same event last year, with Williams edging MIT, 25-30.

Although the top runners for the Engineers changed places many times during the race, the Engineers set the general form of the duel with Williams by the end of the first mile — two runners for the Bears engulfed by the pack from MIT.

Bill Bruno '85 could not catch the Bears' lead runner at the end of the rolling finishing stretch, and placed second overall with a time of 26:42. Bill Mallet '86 sped by Williams' number two runner to finish third.

Eugene Tung '88, Rod Hinman '88, and Anton Briefer '88

crossed the line ahead of Williams' third finisher to place fifth, sixth and seventh, respectively, to cap off the victory surge.

The Engineers will have a break from competition next weekend in preparation for the New England Championships the following Saturday. Following that meet, the top seven runners will race to qualify the Engineers for the Regional Division III Championships in November.



Tech Photo by Frank Modica

The women's field hockey team chases the ball down the field in their game against Elms College last Thursday in Steinbrenner Stadium.

By Diana ben-Aaron

A crew of MIT graduates won the men's lightweight fours race in the twentieth annual Head of the Charles regatta Sunday, breaking the old course record in the event by 35 seconds.

Mark Schaefer '83, Sy Danberg '77, Peter Kermit, and Russ Murphy '82 rowed to victory in 16 minutes, 27.4 seconds, defeating St. Catherine's (Ont.) Rowing Club, which completed the course in 16:53.6. Charlie Griffith coxed the winning crew.

"We had a pretty good idea we were going to win," said coach Frank Neczypor. All four rowers were on the US team this summer at the world championships, he said, and they also won the Head of the Merrimac, Head of the Textile (Lowell), and Head of the Connecticut.

"Our next race is the Head of the Schuylkill and we expect to win that," Neczypor commented.

Mathematics professor Hartley Rogers placed fifth in the men's veteran singles event (for rowers over 50) with a time of 23:4.1. Rogers, 58, was 1 minute 40 seconds behind first place finisher D. Challinor, 64, of the Potomac Boat Club.

MIT women's crews placed tenth in two events. Jeri Ikeda

'87 (cox), Linda Muri '85 (stroke), Liz Erskine '87, Maureen Sybertz '85, and Nancy Walworth '85 completed the course in 19:24.1. The victors, Boston Rowing Club, had a time of 17:50.1.

Three novices and two varsity finished tenth in the youth championship fours event. Sheila Eglowstein '88 (cox), Martha Gray '88, Tina Cortesi '87, Libby Schnieders '88, and Shir Filler '88 raced to the finish in 21:40, two minutes and eight seconds behind winning Mendota Rowing Club.

Nationally-ranked oarswoman Elizabeth Bradley G passed several rowers in the women's championship singles races, but was ranked thirty-ninth of forty. In "Head" races, rowers are started individually in single file, and the times for each are clocked and compared at the finish; thus, if one rower passes another and stays ahead, the first must have been going faster than the second and should place higher in the final standings.

"That ranking was wrong, but the judges' decision was final. We'll never know how well she did," women's varsity coach Mayrene Earle observed.

Field hockey tops Elms, 3-1

By Victor J. Diniak

The women's field hockey overcame what third year head coach Mary Ellen Martin-Madden called a "flat" start and defeated visiting Elms College Thursday afternoon, 3-1, in Steinbrenner Stadium.

The game started slowly with what one experienced observer called "sloppy play" by both sides.

The Engineers' effort was highlighted by strong defensive play, especially by half-back co-captain Julie Chen '86. The defense gave

co-captain goalie Stacy Thompson '86 a relatively easy first half, stopping 13 out of 14 shots before they reached her net.

Elms broke open the scoring with 7:41 left in the first half, when the visitors' offense caught MIT off guard, firing a shot from the right hand side of the field to go up 1-0.

The Engineers did not take the goal lying down. Twenty seconds later forward Julianne Zimmerman '88 capped off an MIT drive down the middle of the field with a shot from the left to put the hosts on the scoreboard. The half ended with the score tied at one.

Martin-Madden was disappointed with her team's first half play. "We were not aggressive on the ball and were not effective," she said.

"In the second half we started playing aggressive and controlled the game," she added.

The Engineers indeed controlled the second half, keeping the ball in Elms's end most of the time. MIT outshot Elms 19-4, holding the visitors scoreless for 35 minutes, while adding two goals of its own.

Forward Irene Gregory '88 gave the Engineers the go-ahead (Please turn to page 19)