



The fun begins. . . Snow early Wednesday morning left students hopefully dialing 253-SNOW. Mark Virtue

## Gray defends "Racial Climate" report

By Mark Kantrowitz

President Paul E. Gray '54 defended "The Racial Climate on the MIT Campus" report, which said MIT needs to improve its racial environment for blacks and other minorities, at Wednesday's faculty meeting. The report, prepared by the Minority Student Issues Group, was released in late October.

Gray responded to a number of specific questions about the report which had arisen in his discussions with MIT faculty administrators.

Gray said the MSIG report focused on black students because there are enough black alumni to permit a careful study of the racial climate. "This is not necessarily true of other minorities, though it is obviously true of the circumstances of women at MIT," Gray said.

MIT has examined the situation for women and has "found

substantial similarities in some aspects of their experience and the experiences presented in the report," Gray noted.

Though the report was not based on surveys of non-black minorities, the report still "gives us some indicators which would cause us to think about the experiences of others as well," Gray said.

Gray: racism now exists at MIT

The 1985 Black Alumni Survey, on which "The Racial Climate on the MIT Campus" was largely based, surveyed blacks who entered MIT between 1969 and 1981, according to the report.

But the report's findings have been confirmed by conversations with current MIT students, Gray pointed out. Gray said he was convinced that "these problems exist in real time" and are not simply historical artifacts.

John S. Wilson, a co-author of

the report, agreed that racism is a current problem at MIT. The sample in the 1985 Black Alumni Survey was stratified into a recent group and an early group, and there were no statistically significant differences between the groups, Wilson said. Also, the quotes and anecdotes in the report were intentionally taken from recent students, according to the report.

(Please turn to page 2)

## Experts probe nuclear power's future

By Paula Maute

The future of the US nuclear power industry is uncertain, said energy experts at a public forum, "Beyond Chernobyl: The Future of Nuclear Power," sponsored by the Technology and Culture Seminar on Tuesday at MIT.

"What is the future of nuclear power after Chernobyl? My answer is, I don't know," said MIT's Kent Hansen, professor of nuclear engineering, and associate director of the Institute's Energy Laboratory. Hansen was one of three speakers who discussed nuclear power before an audience of 100 people.

Three major factors will influence the future of nuclear power, Hansen said. They are: future demand for electricity, availability of other energy sources, and the public's acceptance of nuclear power, Hansen said.

The public's acceptance of nuclear power has been low for the last decade, Hansen said. Americans fear not only reactor accidents, such as Three Mile Island and Chernobyl, but also radioactive wastes, which the public considers "far more sinister," according to Hansen. Nuclear reactors, however, are very safe and have a low probability of an accident, Hansen asserted.

Energy experts have had difficulty forecasting the demand for energy despite numerous predictions based on factors such as population growth and industrial use, Hansen explained. Until the oil crisis of the 1970's, the United States' demand for electricity doubled every ten years since the Industrial Revolution. But today, US energy needs are increasing by about 2 percent per year, Hansen said.

How available fossil fuels will be in the future will affect the extent of the US' reliance on nuclear power, Hansen said. Oil prices and demand are low today, but

## MIT to respond to NCAA drug testing

By Andrew L. Fish

MIT currently has no policy for dealing with the National Collegiate Athletic Association drug testing regulations, but an *ad hoc* committee plans to formulate a policy within weeks, according to Director of Athletics and committee member Royce N. Flippen Jr.

Last January, the NCAA Convention approved drug testing for athletes in championship competitions. Under the NCAA rules, all athletes are required to sign a drug testing consent form before their competitive season begins, according to an NCAA pamphlet.

During NCAA championships, certain athletes will be required to submit to a drug test, either randomly, by the athlete's position, or by suspicion, the NCAA pamphlet explained. The athletes will have one hour to report to a testing station where they will provide a sample in front of a witness. If an athlete tests positive for any prohibited drugs, he or she will be suspended from post-season competition for 90 days, and his or her school will be notified.

The NCAA does not state how individual colleges may use the testing information, but the con-

sent form does say that a positive result would become part of a student's educational record.

Although the drug testing consent forms were distributed to all fall and winter athletes, MIT never decided what to do with any resulting information, Flippen said. The consent form was distributed along with other NCAA forms in the fall and was signed by every athlete, Flippen said.

But many Americans began to challenge drug testing in the state and federal courts, and "we began to worry a bit ourselves," Flippen said. Several winter athletes at MIT refused to sign the consent forms, he said. Flippen hoped that formulating an Institute policy would satisfy student concerns.

The drug testing issue came as a surprise to many people at MIT, said Robert M. Randolph, committee member and associate dean for student affairs. "Our intent is to make sure we have a policy in place," he said.

Randolph admitted that the administration "should have reved up quicker" to formulate a policy. He blamed the inaction on bureaucratic inefficiency.

But Randolph did not feel MIT

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## Center serves as link between industry, MIT

Feature

By Robert E. Potter II

The Center for Advanced Engineering Study serves as a link between industry and academia. Professor Shaoul Ezekiel SM '68, who became director of CAES three months ago, said the center was established in 1971 to fight technological obsolescence in industry, government, and universities.

The purpose of the center, housed in building 9, is "to expose industry to what is going on and convincing them that the topics will be important in the future," Ezekiel said. People need to be continually educated in order to extend their useful lives,

he said. Thus, the center encourages companies and universities to understand the need for continually educating their employees, he continued.

When the center was first established, it encountered difficulty in attracting engineers and scientists, he said. "Originally, it was thought that engineers and scientists would come and get educated." But few people wanted to leave their company for more than a few months, he said.

One of the center's major programs is the Advanced Study Program, in which approximately 50 scientists and engineers come to MIT each year from companies, universities, and governments around the world, according to Paul E. Brown, director of the program.

"About half are foreign and half are from America," Brown said. The program allows the participants to concentrate in a particular field of study, he said.

The Advanced Study Program has 52 participants this term, according to a CAES pamphlet. Almost 20 fellows are from government agencies, about 20 are from industry, and about 10 are from assorted laboratories. Of those from industry, however, only 7 or

(Please turn to page 10)



Amory Lovins, Director of Research at Rocky Mountain Institute. Mark Virtue

### inside

Seeing a movie this weekend? Check out *The Tech's* updated *Movies on the Town*. Page 9.  
Ibsen play overcomes poor performances. Page 6.

# Report is first step in fighting racism

(Continued from page 1)

to Wilson, an associate in the Analytical Studies and Planning Group of Gray's office.

## Report is first step in fighting racism

"Broad discussion is the first step in dealing with the problems which are addressed in this report, the first step in making this environment more supportive of black students, and all students in general," Gray commented.

The fact that other predominantly white universities have racial problems should not keep MIT from trying to improve its own situation, Gray stressed. "That it [racism] is a problem here is sufficient reason to try to deal with it here, and what the circumstances may be elsewhere are not all that important with how MIT comes to terms with these matters."

Racism is especially unacceptable at MIT "because of our historic, appropriate and entirely necessary attention to individual performance and individual achievements, and the way in which individuals grow in this community," Gray said. "There must be no acceptance at MIT of any intolerance, or racial or sexual discrimination or favoritism."

S. Jay Keyser, associate provost, said, "We are now in a position to show how this problem can be dealt with in a creative way, and hopefully, that by doing so, we will be a model for other institutions in the country."

### Faculty "shocked" by report

Professor Mary Potter, chairman of the faculty, remarked that faculty members are "enormously shocked that some of the incidents related in this report could have occurred in the past five years."

Potter said she was concerned over the "negative and very damaging ripple effect" of such incidents.

Potter mentioned another kind of "benign" intolerance, a sort of "softness" to students in the classroom, she said. "We must not substitute for racism a kind of kindness, asking easy questions, giving easy grades, don't make hard remarks on the papers. That's pernicious, it's another form of low key racism which must be wiped out," she emphasized.

The report revealed that many faculty members have substantially different expectations of black students than other students, Gray observed. "What is unique, and particularly troublesome in the revelations of this study, is that expectations of poor performance, expectations of lack of ability, or assumptions about impropriety of presence, which are held by some members of this community, reflect a racially based stereotype which is shocking and simply out of place at MIT."

Some faculty members suggested forming more specific grievance procedures for racist incidents, being sensitive to the use of metaphors drawn from the minority such as "a black mark against someone," achieving a greater representation of blacks in all levels of the MIT community, and holding an Institute colloquium on racism.

### Faculty discuss Interphase

Some faculty members at the meeting asked whether Project Interphase, or an equivalent program, might be extended for another semester, during the freshman year or earlier.

Project Interphase, a transitional summer program for newly admitted minority students, has already been extended, in the form of the "Second Summer Program," one professor commented. This program takes students who had been through In-

terphase the first year, and provides them with summer job opportunities and some access to educational opportunities, he said.

Project Interphase has also been extended in the other direction, in the form of the "Minority Introduction to Engineering and Sciences," a program run by the School of Engineering for high school juniors, another professor noted. A substantial fraction of the students who attend that program come to MIT, he added.

MIT ran two different versions of Project Interphase this summer, another faculty member said. In addition to the full 7-

week program, the institute held a shortened two-week version, he explained. As a result of this change, a larger number of the students MIT targeted for the program were able to attend, he pointed out.

But appraising the impact of Project Interphase can be difficult, Gray noted, because MIT invites all students who they think might benefit from it, and almost all of them come. This prevents MIT from assessing whether the program substantially improves the performance of minorities at MIT. Nevertheless, most of the students who attend Project Interphase report positive experiences there.



Winter Wonderland. . . Jack Frost visits the Student Center. Mark Virtue

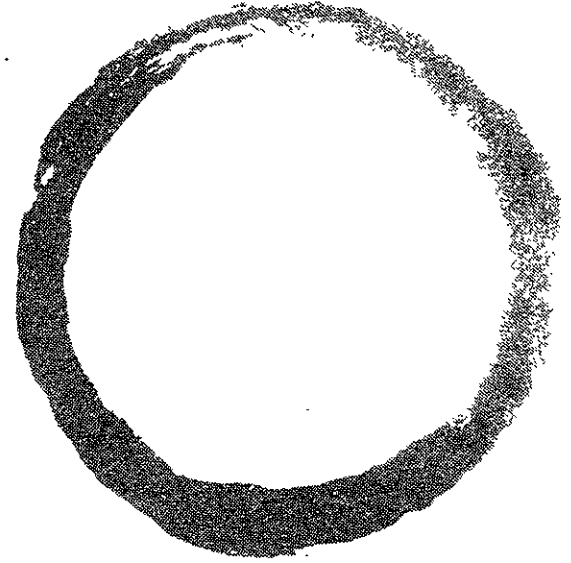
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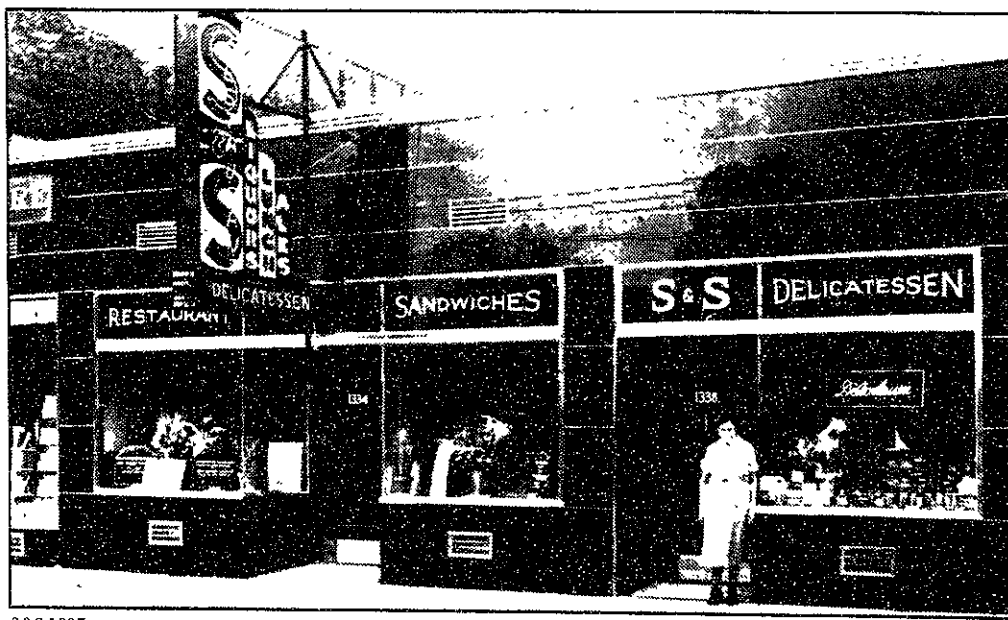
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# news roundup

from the associated press wire

## World

### Hasenfus will not appeal conviction

Eugene Hasenfus, the American convicted of conspiring against the Marxist government of Nicaragua, will not appeal his verdict, his attorney said yesterday. Instead, he will work on getting a pardon from the Nicaraguan government. Hasenfus was sentenced to 30 years in jail Saturday after being found guilty of running supplies to *contra* rebels. (AP)

### Khomeini opposes diplomatic ties with United States and Satan

Ayatollah Khomeini, leader of Iran, yesterday condemned officials in the Iranian government who want contact with the United States. Khomeini said they should be "screaming at America" and asked, "Why should we be so Western-oriented or Satan-oriented?" (AP)

### Soviet Union legalizes certain capitalist activities

Lawmakers in Moscow have passed a law allowing people to hold second jobs as self-employed taxi-drivers, repairmen, and restaurant operators. The new law, which will take effect next May, loosens the highly centralized Soviet economy, but does not affect private hiring, which will still be proscribed. (AP)

## Local

### Delahunt to open juvenile trials

Norfolk County District Attorney William Delahunt said yesterday that he will file legislation to open up criminal trials involving juveniles, even though he believes that the names of juvenile suspects should remain confidential. The public is unaware of the seriousness of some juvenile offenses, Delahunt continued. If the public hears about the cases, it won't tolerate the *status quo*, he said. (AP)

### New Hampshire group advocates local control of state troops

A group opposed to American involvement in Central America sat outside the office of New Hampshire Governor John Sununu every day for five weeks in order to get a face-to-face meeting with the governor. The group wants to keep the National Guard out of military training in Central America. In order to achieve this goal, they want Sununu to resist attempts in Washington to put the guard under more federal control.

A meeting has been set for Dec. 18 to discuss local control of the guard. (AP)

## Nation

### Reagan discusses foreign policy at news conference

President Reagan said the decision to sell arms to Iran was his alone, and that no more such sales would be made, during a nationally televised news conference on Wednesday. The arms deal was justified by the potential rewards, including the release of American hostages in Lebanon, he claimed. But there was no specific arms-for-hostages deal, he added.

If the deal's cover had not been blown, five Americans would have been freed — not three, Reagan said.

During the news conference, Reagan also expressed optimism about arms talks with the Soviets and the possibility of another superpower summit. (AP)

### NASA performs shuttle safety drill

NASA simulated a launch pad emergency yesterday to test evacuation procedures from the space shuttle *Atlantis*. Seven astronauts took part in the drill, which was designed to improve the shuttle's escape system. (AP)

### General Motors puts on the brakes

General Motors laid off nearly 17,000 employees yesterday because of a strike at the Delco Electronics Plant in Kokomo, IN. It may have to shut down its North American assembly operations unless the strike ends. Negotiations resumed yesterday.

General Motors officials said they don't know how long the layoffs will last. (AP)

## Sports

### Bruins choke

The Boston Bruins failed to hold a 2-goal lead in the third period and had to settle for a 4-4 NHL tie in Buffalo on Wednesday night. Norm Lacombe got the equalizer for the Sabres with less than six minutes remaining in regulation.

The Bruins got goals from Dwight Foster, Geoff Courtnall, Thomas Gradin, and Tom McCarthy. (AP)

### Celtics squeeze by young Hawks

The Boston Celtics defeated the surging Atlanta Hawks Wednesday night, 111-107, at the Boston Garden. With just over five minutes left in the game, the Celtics scored eight unanswered points, pulling away from the scrappy Hawks. Kevin McHale scored 30 points, and Larry Bird added 29 points, while Robert Parish had 20 rebounds. Dominique Wilkins tossed in 29 points for Atlanta. The result left both teams with 7-2 records. (AP)

### Personal income, corporate profits on the rise

Personal income rose 0.4 percent last month, registering its highest gain since last April, when it rose 1.2 percent. But personal consumption expenditures for October were down 2 percent from a month earlier, the Commerce Department reported.

After-tax profits of US corporations climbed 4.3 percent in the third quarter, which is the best performance since the end of last year. Profits totaled \$144 billion at an annual rate in the third quarter, the Commerce Department said. (AP)

### Stillwater battles intruders

The city of Stillwater, OK, has used rubber snakes and cannon fire — but still has not removed the estimated 2,000 sparrows who have made Stillwater their nesting area. The latest idea to get rid of the birds came from City Manager Carl Weinbaug, who announced his plans yesterday to use a fleet of motorized model airplanes to drive the birds away. But no one has yet volunteered a plane for war duty. (AP)

### Study says reduction in cigarette smoking may be useless

Smokers who cut down on the number of cigarettes they smoke each day are not necessarily reducing the amount of toxins that they inhale, according to a study in the *New England Journal of Medicine*. Smokers who cut back tend to compensate by smoking cigarettes more intensely, which multiplies the tar and nicotine they inhale, the study said. The best thing for smokers to do is to quit entirely or switch to a brand with the lowest tar and nicotine content, the authors of the report asserted. (AP)

## Weather

### A warmer stretch

After the sloppy weather and below-normal temperatures of the past few days, we will see a welcome return to near-normal temperatures and drier conditions during much of the weekend. After the rain departs this morning, we will have a dry stretch until Sunday afternoon, when an approaching cold front may trigger some showers. Saturday should be the better weekend day and it's not too early to check out the skiing up north; some of it is quite good.

**Today:** Rain ending in the morning and partial clearing this afternoon. Highs in the upper 40s (282 K) early in the day, then falling through the afternoon. Gusty Northwest winds up to 30 knots (18 m/s).

**Tonight:** Partly cloudy, windy, temperatures dropping to around 30° (272 K).

**Saturday:** Mostly sunny, highs in the mid 40s (280 K). Winds brisk in the morning, subsiding by midday. Saturday night will be fair with lows in the mid 30s (275 K).

**Sunday:** Partly sunny and milder, chance of a shower in the afternoon, highs in the low 50s (285 K).

Forecast by Chris Davis

Compiled by Robert Adams

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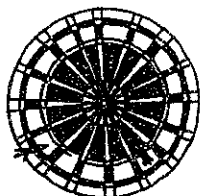
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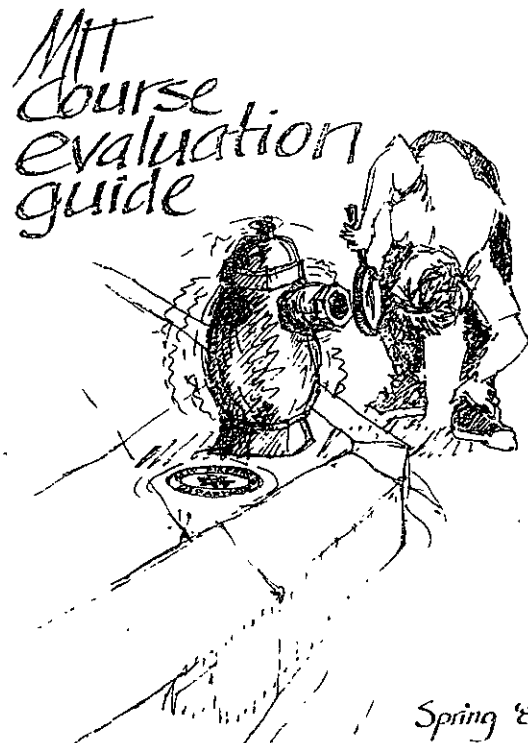
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*Columns and editorial cartoons* are written by individuals and represent the opinion of the author, not necessarily that of the newspaper.

*Letters to the Editor* are welcome. They should be typed and addressed to The Tech, PO Box 29, MIT Branch, Cambridge MA 02139, or by interdepartmental mail to Room W20-483.

Letters and cartoons must bear the authors' signatures, addresses, and phone numbers. Unsigned letters will not be accepted. No letter or cartoon will be printed anonymously without express prior approval of The Tech. The Tech reserves the right to edit or condense letters. We regret we cannot publish all of the letters we receive.

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Column/Kenneth D. Leiter

## Apartheid cannot die quickly

As I ran through the doors of the Johannesburg train station to catch a train to Pretoria, a black porter stopped me. "You cannot enter through here," he said. "This is the colored entrance. Go to the other end of the station." With five minutes left to the train's departure, I ran with my heavy luggage to the "white entrance."

Huffing and puffing, I quickly found my way to the correct track, but as I climbed onto the train, someone yelled at me, "That is the car for the bloody Kafirs. Why would you want to ride with those animals?"

My watch said 3:13 pm; the train left at 3:14 pm. This was not Amtrak — South African trains are as precise as the changing of the guard at Buckingham Palace. Hearing the commotion, the conductor surmised that I was a tourist, so he quickly directed me to the right car. As the train pulled away from the station, I fell into my seat cursing and fuming at the stupidity of apartheid.

In the seat next to me sat a

South African of English descent. During the journey I discussed politics with my fellow traveler. He inquired about the American reaction to apartheid, and I, in turn, asked him about the English-South African population's feelings towards the Afrikaners, and apartheid itself.

Continually, he expressed his concern and remorse about how countries naively thought that they could instantly change a system that had reigned for so long, with economic sanctions, disinvestment, and boycotts.

Like many other South Africans that I met during my three week stay, he believed that the intrinsic problems of racial discrimination in his country were too complicated to be changed by simple solutions. That was the one statement which I heard over and over again from Englishmen, Afrikaners, and even a few educated blacks.

The man on the train left me in Pretoria with one comment that I will never forget, "Change will come, but it must come slowly. Otherwise there will be chaos,

destruction, and death."

Chief Gatsha Buthelezi, the leader of the six-million member Zulu tribe and a most respected black leader, has publicly voiced his opposition many times to disinvestment and sanctions, though he is hardly satisfied with his government's policies. United States Secretary of State George P. Shultz PhD '49, in an address before the National Press Club in April, mentioned that opinion polls in South Africa by reputable organizations reveal that the overwhelming majority of black factory workers are opposed to disinvestment by American firms.

I had heard for most of my life about the revolting system of white-imposed segregation between blacks, Asians, and coloreds on the one hand, and whites on the other. For at least five years I had thought of going to this nation, which despite its beauty and varied attractions, was as abhorrent to me as Germany still is to some Jews. I certainly could not directly understand the plight of South African  
 (Please turn to page 5)

Column/Sharalee M. Field

## Where have all the flamers gone?

Well, folks, it's Thursday, and once again I have one lonely letter for tomorrow's opinion pages. Columns are not usually the bulk of the opinion pages. These pages are, instead, filled mostly with "feedback," and not all of it is generated by Simson L. Garfinkel's columns. They are the voices of the MIT community expressing their *opinions* on current events, MIT happenings and life in general. But these voices have been strangely silent lately.

Granted, this makes editing a lot easier. Headlines are a breeze. It tends to keep my mailbox clean, also. But a page of editorial cartoons just doesn't make a very interesting opinion section. You may have been laughing, but

we weren't. Our opinion pages have seen classic flames such as the issues of pornography, abortion, and divestment as well as other random political happenings. To be reduced to one small letter of the "The Tech goofed again" variety and a handful of cartoons is rather depressing, not to mention embarrassing.

So what's the problem? Why is no one flaming? Now that the November elections are over is there nothing that concerns people? If all of you are so contented, you could tell us what has brought about this marvelous state. Nobody wrote a letter commenting on the breathtaking beauty of Killian Court on Wednesday morning when the

sun came out after the early morning snowfall; perhaps you were too busy trying to get to your next class on time without falling on the ice.

Perhaps everyone has been lulled into contented apathy by the thought of the imminent holiday season: friends, families, homecooked feasts, parties and fun in lieu of classes, exams and problem sets. Indeed, these are warm, comforting thoughts. This may explain why no one really wants to make a statement about the homeless who will be cold and hungry this holiday season, or about any other issue which would otherwise disturb our intellectual community.



"Who ordered the pizza with everything on it?"

# opinion

## Sudden change will hurt S. Africa

(Continued from page 4)

blacks, but I tried to compare it to the blacks' treatment in the American South in the early twentieth century.

Xan Smiley questioned this comparison. "In fact, there are no similarities between the state of the black American, and that of the black African," he wrote in his article "Misunderstanding Africa."

Unlike the situation in America, the black in Africa does not necessarily want money, education, and freedom from prejudice. Most black Americans are completely American in hopes and culture and often simply seek to be treated as whites.

In Africa, sameness is confused with equality. Though most of the blacks throughout Africa are fundamentally equal to whites, they do not have the same desires. Because of this, their primary aim is not necessarily to be treated as whites. The South African black's goals are to be colorless and equal.

Presently, apartheid is the only state-sanctioned racist policy practiced by a "democratic" state. Once I had learned more about South Africa's policies and cultures, I could not understand how a nation this wealthy, so technologically advanced, so modern, and so cultured could practice such an inhumane system. After my visit, however, I understood that without these racist policies, the nation would never have prospered into a rich power, an anomaly on a continent of corruption, sloth, and inefficiency.

Before my trip, I believed fervently that the blacks should be granted total equality immediate-

ly. I thought that the American government needed to pressure the Botha regime through rhetoric, economic sanctions, and any other possible means into abolishing the present racist system. Influenced by the American media, I saw nothing but the injustice towards and suffering of the black population. I did not realize the complexity of the situation.

While the government could make blacks equal citizens and hand over the reins of government to black leaders tomorrow, could the country function properly without enough trained, educated, and experienced leaders?

I used to think the answer was "yes." By the end of my trip my views had changed drastically. I finally realized how mistaken are the impressions that many Americans have about South Africa. My answer to this same question is now a definite "no." An immediate change in the color of the regime would provide the blacks with immediate satisfaction, but it would not solve any long-term problems.

Certainly, reforms should be introduced. Black leaders should definitely be integrated into the government, and practices such as segregated buses, trains, restaurants, and public toilets should be gradually done away with. Better, and eventually equal educational facilities should be established for blacks. All efforts should be made to make the country more racially desegregated as fast as is peacefully possible.

Prime Minister P.W. Botha has instituted limited reforms, and more are on the way. The segregated bus system was in its last

days when I left the country. Two years ago non-whites were introduced into Parliament. Prominent black activists such as Winnie Mandela, despite what seems to be evidence to the contrary, have been given more freedom of expression and movement. But the "one man, one vote" concept is a much more difficult reform to demand because scores of years of history and work cannot be changed immediately.

After speaking to many South Africans, I can sympathize with their fear of a black regime. Who can guarantee that when the blacks obtain power they will not practice the same system of "apartheid" as is now practiced by the whites? And who can blame the South African whites for fearing that what they have worked at for years, economically, scientifically, and intellectually, faces possible ruin if they were to lose control of the country?

Although I was horrified by many of the policies of segregation practiced by the government and individual citizens, I do not think that the blacks are really treated "badly." Their wages, though not so high as those of whites, are the highest of any country in Africa. The infant mortality rate, the literacy rate, and the standard of living among the South African blacks are better than in any black nation on the continent.

I would like to see the system change "overnight," but not at the expense of stability. My experiences in South Africa demonstrated to me that change must come in South Africa, as I truly hope and believe it will, but this change it cannot be forced; it can only be slowly nurtured.

## feedback

### Class gift should make a statement

To the Editor:

In the coming weeks, the class of '87 will be deciding on a senior class gift to the Institute. As a class member and future alumnus, I feel it necessary to raise my concerns regarding this topic with my classmates and the entire MIT community. I propose that the senior class gift be donated in full to the MIT Endowment For Divestiture (EFD).

The purpose of this letter, rather than merely to campaign for my proposal, is to encourage people to think about this issue in certain ways. The choice of giving the gift to EFD has two main facets that must be given thought. First, is it appropriate to donate a "non-material" gift such as the one I have proposed? Second, is it appropriate to address political issues in doing so.

The first question, that of donating a gift other than a material object, is one that could and should be considered. In essence, it is a choice between a gift that people will see and perhaps sit upon, as opposed to a gift which will be a unique exercise in thoughtfulness by this class, directly involving our ideas and values. Both kinds of gifts can be valuable as ways of being remembered, and of reflecting a class spirit. I encourage people to ponder for themselves what relationship the spirit of the class of '87 might have to changes now happening in the "outside world," the same world we will enter in June.

In regard to the second question, should such a gift have strong political concerns, I point out that 60 percent of the undergraduates who participated in last year's UA referendum voted

for divestiture. Bringing in a political issue with our senior class gift would mean making a commitment to our values that is greater and more lasting than simply checking off a box on a ballot. Thus, an important question is: just how committed were we to the values expressed in the referendum? This senior class' gift will make that decisively clear.

As a way of promoting meaningful thought, pertinent discussion, and a reaffirmation of our values, I believe that donating to EFD is the right thing to do. EFD is a trust fund formed by the faculty, staff and alumni (including a congressman) to put pressure on MIT to sell all of its stocks in companies doing business in South Africa. If by 1994 MIT has not divested from these companies, the EFD will give all

of its funds to be equally divided between the United Negro Fund and Amnesty International. Beyond doubt, these two charitable organizations would, by themselves, be worthy recipients of our class gift.

I therefore encourage all seniors to discuss this matter further and express their opinions on the two main issues I have raised here. It is interesting to note that the Harvard senior classes have for the past three years chosen to make use of their gifts to encourage Harvard University to divest. As every political action can gain significance when seen as part of a greater political movement, I hope that MIT students will also see this step as part of an ultimate goal of bringing to an end MIT's participation in apartheid.

Marino D. Tavarez '87



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## Staging of Ibsen play overcomes slow pacing and poor performances

ROSMERSHOLM

By Henrik Ibsen.

At the New Ehrlich Theatre.

By JULIAN WEST

**N**OT IBSEN'S GREATEST WORK, or his best known, "Rosmersholm" is nevertheless an important early play. And it is certainly Ibsen, heavy and thick, with impenetrable shadows and a dimly revealed plot.

What plot there is seems to be a little about politics, more about liberation and innocence. It was ambitious of the New Ehrlich Theatre to tackle it in the centenary of its first production.

The production succeeds, though not without a few problems. First, they have not managed to overcome Ibsen's pacing. The first two acts contain some pretty clumsy expositions, and, to be frank, drag to no uncertain degree. But they lay the necessary groundwork for the psychological drama of the second half, and it is after the interval that the play becomes gripping.

In a little studio theater it is easy to hear the audience, and there were more than a few fidgeters at the close of the play. I do not understand why; perhaps they had not been adequately warned of what to expect. "Rosmersholm" is not action-packed; it is a relentless psychological pursuit of its characters. Those carefully scrutinized include John Rosmer, a hereditary estate-owner and a fallen priest; and his intellectual companion Rebecca West. Even the skeleton in his closet, a wife who went mad and killed herself long before the start of the play, comes under the microscope.

The second problem concerned the portrayal of the characters. It was not that the acting was bad, it was simply a little misguided. Dr. Kroll (Charles Weinstein), who contributes to Rosmer's downfall through a mudslinging campaign, was well portrayed, but was too friendly and outgoing by half. He is something like J.R. Ewing, smiling amiably at his friends, even while



Terry Stoecker as Rebecca West and Vince Mahler as John Rosmer in "Rosmerholm"

double crossing them.

Rosmer himself (Vincent P. Mahler) was suffused with his sought-after inner peace to such an extent that he always had a sort of grin on his face. In the face of possible death and disgrace he remained cheery rather than resigned.

Much better performances were turned in by the women. Terry Stoecker was a fine Rebecca, the woman with secrets from everyone. After confessing to Rosmer about the past, she has a splendid moment alone to consider the future. Equally good

was Chris Fadala, as Mrs. Helseth the longtime housekeeper, who gave her opinions on a number of occasions. She made the best of a few awkward scenes, including a hideously predictable final speech.

What made the production worthwhile, however, was not the acting but the staging. A simple but effective set was enlarged into a several performing areas by the use of spotlights which never quite provided adequate lighting. The resulting gloom deepened the darkness of Rosmer's labyrinth.

When faces emerged from the shadows, they were frequently half-lit, neatly paralleling their speeches, which frequently revealed only one side of a character. In this play everyone has something to hide, and they were provided with plenty of shadows to hide in. Only Rebecca's blue dress relieved the starkness of the men's black-and-white costumes.

"O how happy I would be if I could kindle a little bit of life in this barbarous darkness," Rosmer says. The New Ehrlich production does, indeed, kindle a little.

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## Visually exciting "Lord of the Rings" adaptation by Théâtre Sans Fil

### LORD OF THE RINGS

By J.R.R. Tolkien.

A stage adaptation using giant puppets

by the Théâtre Sans Fil.

At the Shubert Theatre

Friday, Nov. 21 at 8pm.

Saturday, Nov. 22 at 2 pm and 8 pm.

Sunday, Nov. 23 at 1 pm and 6 pm.

By JULIAN WEST

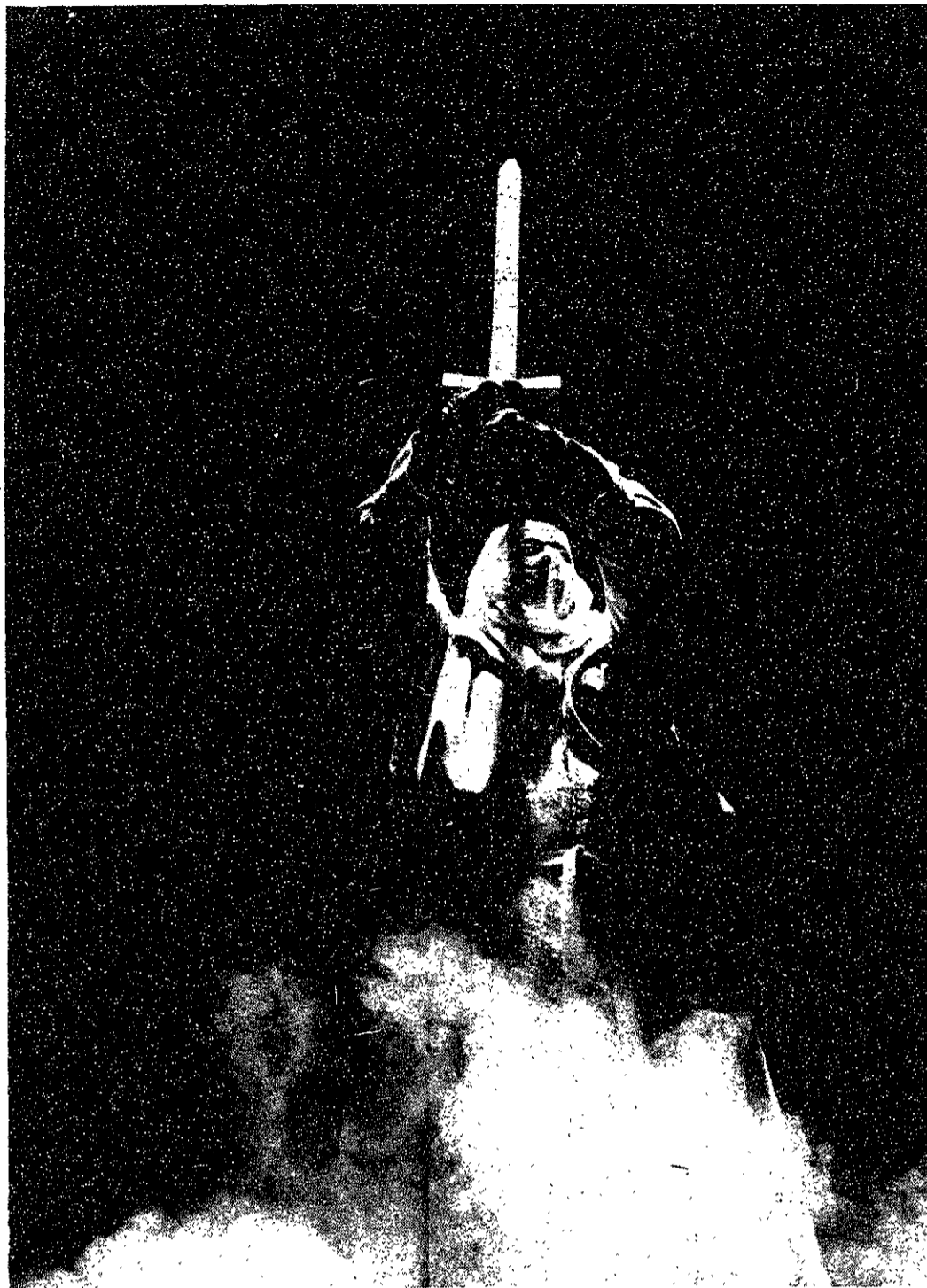
IT IS AN AMBITIOUS UNDERTAKING to bring Tolkien's masterpiece to the stage. However, given the enormous success of their "Hobbit," it seemed inevitable that the Montréal-based Théâtre Sans Fil would try it. After its premiere last year, and the English language premiere in April, the production has now gained the momentum for a pre-Broadway run.

While "The Hobbit" was an unqualified theatrical success, one had to suspect that any adaptation of the six-book epic *Lord of the Rings* would have to be somewhat abbreviated. Suspicions were not allayed by the safety curtain, which presented a clipped version of the famous "Three rings for the elven kings..." prologue.

Surprisingly enough, most of the plot was there, although it was evident that mounting the climactic battle scene posed a problem. The program notes contained a synopsis more detailed than an opera's, lest the audience get confused. But even more surprisingly, the show was comprehensible even to those with only glancing familiarity of the work. This, for a start, put it above and beyond the animated film effort.

What principally distinguishes the stage work is that Théâtre Sans Fil understands the nature of magic. Any stage work is a little magical and only in a theater, as opposed to a film, can clever illusions work magic.

The stage effects, some being tried out in Boston for the first time, were marvelous. They started off slowly, with a hobbit vanishing a little clumsily in a hail of pixie dust but the fireworks, literally, soon started. Best was Gandalf's magic wand, a druidic staff which glowed and fired laser bolts. Containing the attacking Nazgul with vibrating force lines earned an ova-



Strider from Théâtre Sans Fil's adaptation of "Lord of the Rings"

tion from the stunned audience.

As for the life-sized puppet characters, there were over 70 and they were in classic Théâtre Sans Fil style. The hobbits, three-foot tall with broad, simple-looking faces, worked fine in the whimsical "Hobbit" but were a bit too comical for "The Lord of

the Rings." The elves — wispy, insubstantial things manipulated by the heads and arms — were so stylized as to be impressionistic. This should settle the complaints of those who feel that staging the work is to deny the necessary element of imagination.

What most people will find disturbing is the rather high-tech nature of some of the production. The technology is not concealed beneath a veneer of magic, but is obvious. It is most evident in the decidedly android elves and the torchlight eyes of the orcs and nazgul.

Boromir and Aragorn, the human characters, were costumed players but might as well have been puppets: their disjointed, exaggerated gesticulations blended in well with those of the puppets.

Some of the sets were simple, but most were effective. Here the high-tech was more appropriate as in the lighting effects for the elven forest. One scene transformation, from a giant canvas map to a mountainous landscape, was particularly stunning.

The voices were recorded, which makes it seem that there was little acting going on. But once one considers how well synchronized the stage actions were to the voices and music, this prejudice is dispelled. And the soundtrack makes it easy to switch between French and English performances. The troupe has even performed in a foreign language: four performances of "The Hobbit" were given in Cantonese in Hong Kong.

Another advantage of the soundtrack was the recorded music, which could not easily have been done live. Mostly synthesized, the music developed naturally enough from that used for "The Hobbit."

No modern Théâtre Sans Fil production would be complete without backlight and various other lighting effects, and these were there in profusion. Other tricks, such as puppets flying out over the audience and orcs parading through the aisles, were also effective. The puppets ranged widely in size and complexity, the smallest and simplest being luminous bats. A dragon, though not as impressive as the Smaug puppet used in "The Hobbit," was enormous.

How well all this is going to fare on Broadway is anybody's guess. But when sixteen black-costumed puppeteers ran on, still hooded, for their traditional curtain call, the applause was long and loud. Indications are good.

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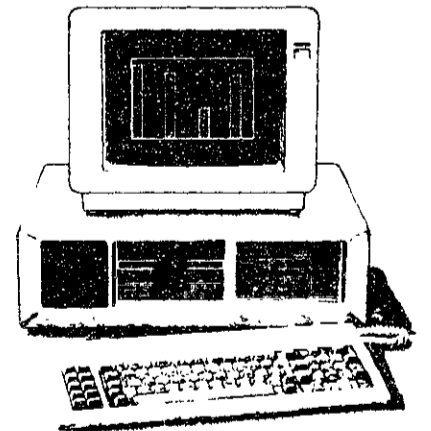
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## ARTS

# Movies on the town

★★ **Blue Velvet** — David Lynch's weird tale of sexual perversity is interesting in its presentation of the darker side of life, but the humor flaws the film in its incongruity with the serious subject matter. At the Nickelodeon and Harvard Square.

★★★★ **Children of a Lesser God** — A beautiful, moving love story between deaf pupil (Marlee Matlin) and teacher (William Hurt) with fabulous acting performances by the principals. At the Cheri and Harvard Square.

★★★★ **The Color of Money** — Scorsese directs and Paul Newman and Tom Cruise star in this excellent sequel to the 1961 "Hustler." Cruise is a hotshot pool shark being stakehosed by Newman but the film is less about pool than it is about deception and personal redemption. At the Charles and Assembly Square.

★★ **Crocodile Dundee** — Paul Hogan is likeable as the Australian from the Northern Territories and the scenes in the outback are gorgeous. However, the story bogs down once it moves to New York. At Cinema 57 and Assembly Square.

★★ **The Fly** — Guaranteed gross-out but don't expect great acting or much of a plot. Jeff Goldblum undergoes gradual transformation to a six-foot, talking insect

and Geena Davis oohs and ahs a lot. At Assembly Square.

★★ **Impure Thoughts** — Four men die and find themselves in Purgatory reminiscing about their childhood days in parochial school. What starts off as an imaginative premise dies as the point of the film becomes ever more muddled and confused. At Copley Place.

★ **Jumpin' Jack Flash** — Whoopi Goldberg's talents are wasted in this silly tale of a computer operator who finds herself immersed in international espionage through her terminal. Her romantic involvement with an invisible spy is even less believable. At the Charles and Assembly Square theaters.

★★ **Menage** — Gérard Depardieu and Miu-Miu star in this bizarre French film chronicling a trio's journey of damnation into the underworld. This film refuses to be taken seriously and ultimately defies classification. At the Janus and the Nickelodeon.

★★★ **My American Cousin** — During the summer of '59, Sandy's good looking cousin from California unexpectedly visits her home in British Columbia, adding spice to her dull life. Proof that Canadians make more than just great hockey players. At Copley Place.

★ **The Name of the Rose** — Umberto Eco's book about the importance and beauty of books is reduced to nothing more than a detective story set in a monastery in 1327. Sean Connery stars as the sleuth, William of Baskerville. At Copley Place and Harvard Square.

★ **Nobody's Fool** — Well, the filmmakers certainly thought they could fool their audience with this poor excuse for a movie. The only thing which redeems this film is Rosanna Arquette's fine performance. At Pi Alley.

★★★ **Peggy Sue Got Married** — Kathleen Turner and Nicolas Cage star in a Francis Ford Coppola film about what a woman wishes she had done when she was eighteen. At the Cheri and Assembly Square.

★★★★ **Round Midnight** — Great bebop jazz in Paris during the late 50's is the theme of this wonderful film, an uplifting story of a jazz saxophonist's rise from secluded, lonely greatness to eventual fulfillment. At Copley Place.

★★★★ **She's Gotta Have It** — Sex, that is. She's pretty and has three lovers who jealously stumble over each other while vying for her attentions. A delightful comedy of sexual manners. At Copley Place.

★★★ **Sid & Nancy** — About the life and times of Sid Vicious, bass player for the Sex Pistols, and his groupie girlfriend, Nancy Spungen, this film manages to rise above the standard "docudrama" genre in presenting an emotional account of an unusual romance born of the destructive punk culture. At the Nickelodeon and Harvard Square.

★★ **Something Wild** — Melanie Griffith is the hot vixen decked out in black and Jeff Daniels the square, boring vice-president of a tax consultancy waiting for the rebel within him to emerge. The two make for a fun-filled weekend but the film drags when it tries to get serious and violent. At the Paris and Assembly Square.

★ **Tai-Pan** — A silly, silly, silly Spaghetti Eastern. Garbled and unbelievable, this Pan-Pacific Panorama is fit to be Tai-Panned. At Beacon Hill and Assembly Square.

★★★★ **True Stories** — David Byrne's funny and absurd vision of life culls unlikely stories from a weekly tabloid to deposit them in the town of Virgil, Texas. The black and white characters from these stories are molded into real, likeable people. At the Nickelodeon and Harvard Square.

Compiled by Peter Dunn from Tech reviews

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The world premiere of MIT Professor John Harbison's *Flight into Egypt* will be part of the concert of the Cantata Singers in Jordan Hall, Friday, Nov. 21, 8 pm. Also featured: Bach's cantata *Wachet Auf*, BWV 64, and short pieces by Schütz. MIT price: \$5.

Tickets will be sold by the Technology Community Association, W20-450 in the Student Center. If nobody is in, please leave your order and your phone number on the TCA answering machine at x3-4885. You will be called back as soon as possible.

### Jose Feghali

Jose Feghali, gold medal winner of the Seventh Van Cliburn International Piano Competition, will give a recital in Jordan Hall on Sunday, Dec. 7 at 3 pm. The program features works by Mozart, Chopin, Debussy and Prokofiev. MIT price: \$3.50.

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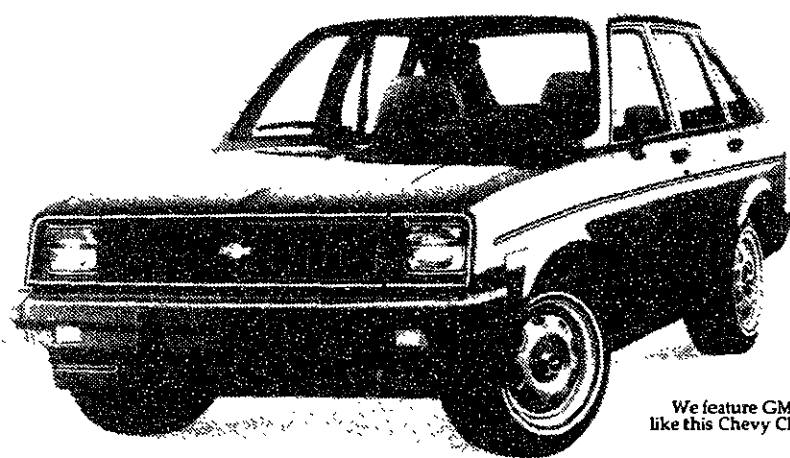
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# 50 scientists, engineers attend CAES

(Continued from page 1)  
8 are from the US. The ages of the fellows range from 25 to 65, and the average age is around 35.

The participants generally come from the same institutions each year, Brown explained. Fellows pay approximately 1.5 times the tuition charged to undergraduates, he said.

Tetsuya Fujita, a fellow from NEC Corporation said he was "very much satisfied" with the program. "The intensive study . . . forces you to work," he explained. In order to receive a scholarship to participate in the program, Fujita competed against other engineers at NEC, he said.

## CAES offers video courses

The CAES also produces vid-

## Forum probes the future of nuclear power

(Continued from page 1)

caused the Chernobyl accident, said Amory Lovins, director of research at Rocky Mountain Institute. "And it could happen here," he said.

Chernobyl "wasn't so much an accident as an inevitability," Lovins said. But Lovins, who once favored nuclear power, now opposes it for economic rather than safety reasons.

Nuclear power, which supplies 12 percent of the United States' electrical energy, is one of the most expensive energy sources, he said. Nuclear power generates about one-half as much energy as wood burning, taking into account the energy needed to operate nuclear plants, according to Lovins' calculations.

The era of the big power plant is over, Lovins claimed. The United States should steer toward energy efficiency and renewable sources of energy, such as solar, wind, and geothermal energy, he said.

Both American industry and the general public must begin to integrate new technologies into electrical systems to improve energy efficiency, he said. The United States has the potential to displace all nuclear power output five times over by "retrofitting" the country's electrical systems to reduce the amount of electrical energy needed, according to Lovins' figures.

## Panelists disagree over effect of Chernobyl accident

John Ahearne, vice president of Resources for the Future, countered that the Chernobyl accident in April will not significantly affect the growth of the US nuclear power industry. Americans tend to have short attention spans and think, "It can't happen here," he explained.

The overall trends indicate an unfavorable future for nuclear power, in contrast to 30 years ago when the nuclear industry had a bright forecast, Ahearne said. The industry is in trouble due to economic reasons and the public's fear of nuclear power.

To rebuild its image, the nuclear industry must find a solution to nuclear waste disposal, and must attract competent, well-trained managers to improve construction and operation of nuclear power plants.

eotaped courses in science, engineering, and management under the MIT Video Course Program, Ezekiel said. The center sells the videotapes to companies and the government, he added.

"Video courses are very popular because you can study by yourself or in groups," he explained. "MIT's video courses are one of the best in the field."

The center works "hand-in-hand with industry to satisfy their needs," Ezekiel continued. "The videos provide the fundamentals and can be updated. The technique of learning is important. Our group doesn't just sell tapes, our group does follow-up," he stressed.

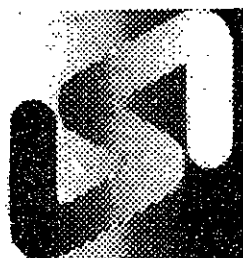
The tapes are studio-produced, Ezekiel explained. Therefore,

they are free from the discrepancies and roughness of live lectures. Each videotaped subject contains an average of 25 tapes and costs \$9000 per set, according to a list obtained from the Video Course Program office.

The tapes are available for general use in Barker Library and may actually be useful to students because they are "more coherent" than MIT lectures, Ezekiel said. The program will complete a new set of tapes for Structure and Interpretation of Computer Programs (6.001).

Ezekiel said that although CAES has no Undergraduate Research Opportunities Program, "students can help as TA's in training fellows in use of the computers and in making tapes."

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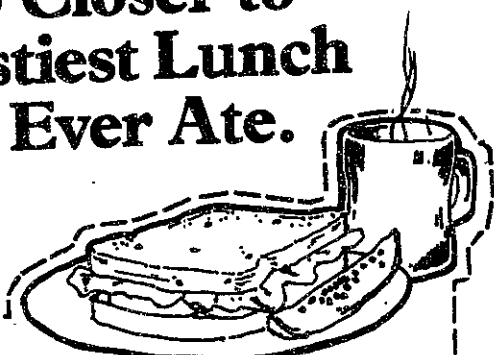
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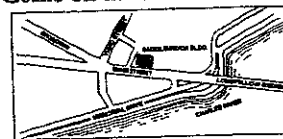
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# MIT athletes balk at drug testing

(Continued from page 1)  
 should ignore the NCAA's policy by withholding the consent forms while MIT is creating a policy. Withholding the forms "could have penalized students for whom this is not an issue," he said.

MIT had distributed most of the winter consent forms before the controversy arose, Flippen added.

MIT must say what it will do with drug testing information to "allow students to make an informed judgement," said Jeffery A. Meldman '65, a member of the Committee on Privacy and the *ad hoc* group.

"We are trying to undue any damage that may have been done," Meldman said. Students should be able to rescind their signing of the forms after the Institute policy is announced, he added.

### Meldman proposes policy

Meldman has proposed a policy which bars drug testing information from being used in any MIT disciplinary proceedings. The proposed policy would also prohibit drug testing results from appearing on a student's educational record or medical record unless the student so desired. MIT should only suggest counseling if the test indicated a drug problem, he proposed.

Any information MIT received from drug tests should be used in a "productive manner" and not against the student, agreed Mark A. Goldstein, committee member and director of student health services. But he added that a medical professional would be obligated to follow up on any drug problem indicated by the NCAA tests.

### Constitutional concerns

Drug tests in general are a violation of constitutional rights, said committee member Paul D. Grace, coordinator of sports medicine. "Unfortunately we're in the NCAA," he said. But he added that MIT was "very sensitive in protecting students rights."

"I think drug testing of any kind is ridiculous," said Jonathan N. Katz '90, a student opposed to the plan. "I can take care of myself," he said. The tests are a form of illegal search and seizure, and they violate students' rights, Katz asserted.

In addition, Katz felt the tests would not succeed in improving competition, which is the stated purpose of the NCAA's policy. The tests do not show whether athletes are actually impaired by drug use, he noted. The NCAA does not make the results available until after the competition, he said.

### Prohibited drugs

Drugs prohibited by the NCAA include psychomotor stimulants (i.e. amphetamines), sympathomimetic amines, miscellaneous central nervous system stimulents (including large amounts of caffeine), anabolic steroids, diuretics, street drugs (marijuana, cocaine, etc.), and, for rifle competition, alcohol and various other compounds.

"I don't agree with indiscrimi-

nate testing of all the drugs on the list," said Mark A. Goldstein, director of student health services. Some of the prohibited drugs are legal medications, he noted.

The tests could cause tremendous anxiety among athletes, Flippen said. Some of the drugs prohibited by the NCAA are not used for enhanced performance, he noted. An athlete might not know if he had taken a substance which would cause him to test positive, Flippen said, yet it could cause his team to be disqualified.

Flippen, a member of the NCAA Executive Committee which formulated the policy, said the NCAA's goal was to use athletic teams as a catalyst for student drug education. Although Flippen voted against the proposal last January, he said he understood why others were in favor of the motion. "The initial reasons given for announcing the drug testing was to highlight the issue and alert the public," Flippen noted.

Flippen said he is much more concerned about the issue now. The drug testing issue has become "a very sticky, complicated mess," Flippen said. The implementation of testing has been very complicated, and the drug testing policy will be reconsidered at the NCAA Executive Committee meeting in December, he said.

### Athletes react

"I'm refusing to sign the forms and so are quite a few other athletes," said Arthur F. Lent '90, a member of the fencing team. "Some of what's being tested for is absurd," Lent said. He was also concerned about the test returning a false positive.

Drug testing involves the NCAA in our private lives, Lent said. He likened the regulations to "a case of big brother watching you."

"If I was sure of MIT's policy and had more details of the NCAA policy, I might consider signing," Lent said.

The basic idea of the NCAA program is good, said committee member Martha R. Beverage '87, who played on the field hockey team this fall. But the tests are too extensive, and logistics were not well thought out, she said. The current regulations "infringe on people's rights and health," Beverage said.

Beverage admitted that she signed the fall consent form with "no thought." She said she questioned the winter consent form but signed it, in part because she did not anticipate participating in post-season competition.

No MIT teams have yet been tested under the NCAA rules, but the cross country team might be tested at their championships, Grace said.

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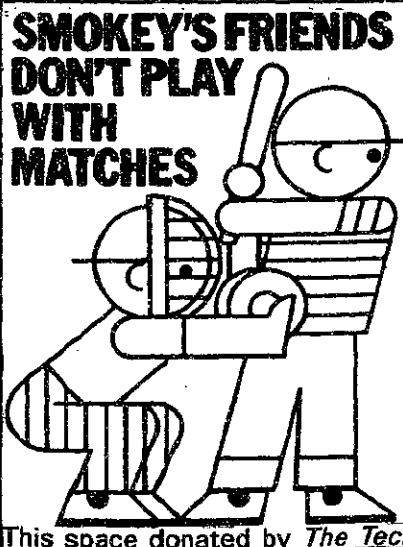
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10:30 to 11:30 a.m. (at 10:30 & 11:30) (at 10:30 & 11:30)	Concurrent Workshops (each workshop will be offered twice): <b>ADMISSIONS AND FINANCIAL AID, Room 34-303</b> <b>THE GRADUATE EXPERIENCE, Room 34-304</b>
12:30 p.m.	Lunch from our own Andy's Hot Dog & Chili Stand Lobby of EG & G Center, Bldg. 34
1:30 to 3:00 p.m.	<b>GRADUATE SCHOOL INFORMATION FAIR</b> EG & G Education Center 2nd Floor Lobby
3:00 to 3:30 p.m.	Wrap-up: Dr. Edgerton Lecture Hall, Room 34-101 <b>Dr. Howard G. Adams, Exec. Dir., GEM</b>

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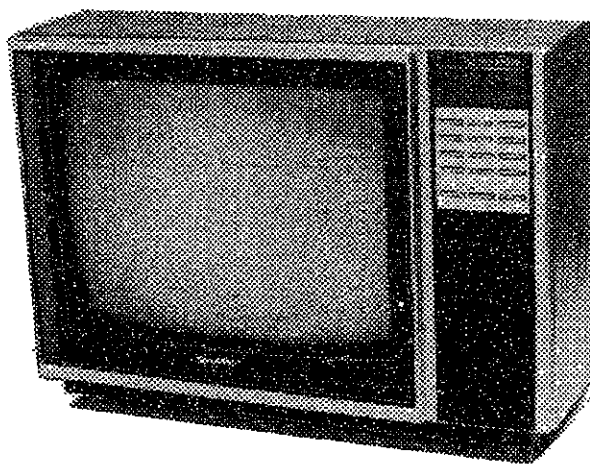
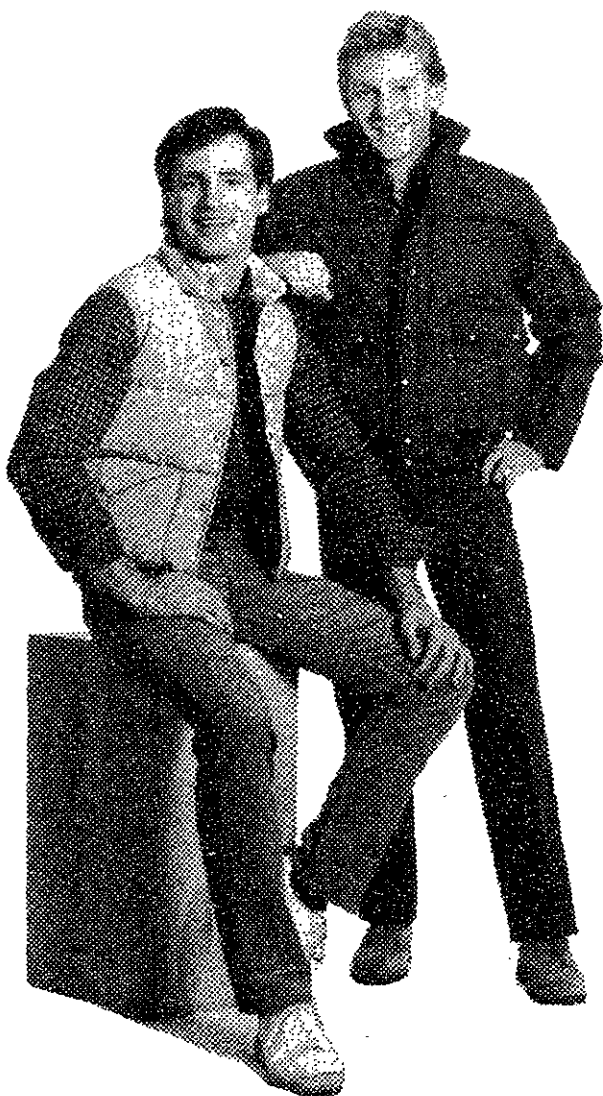
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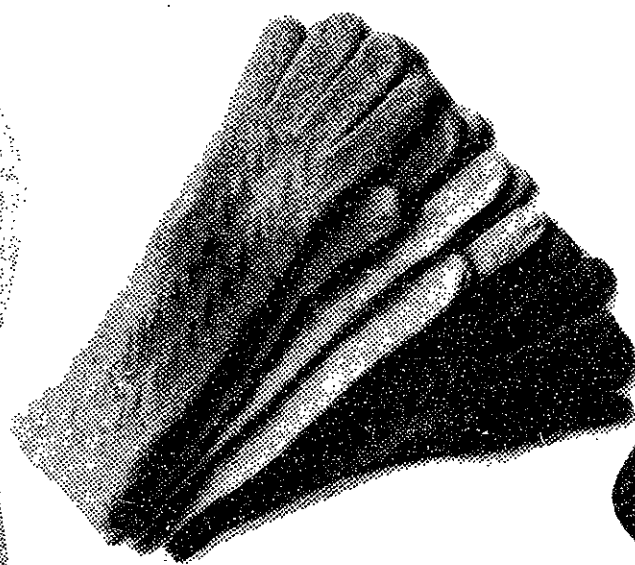
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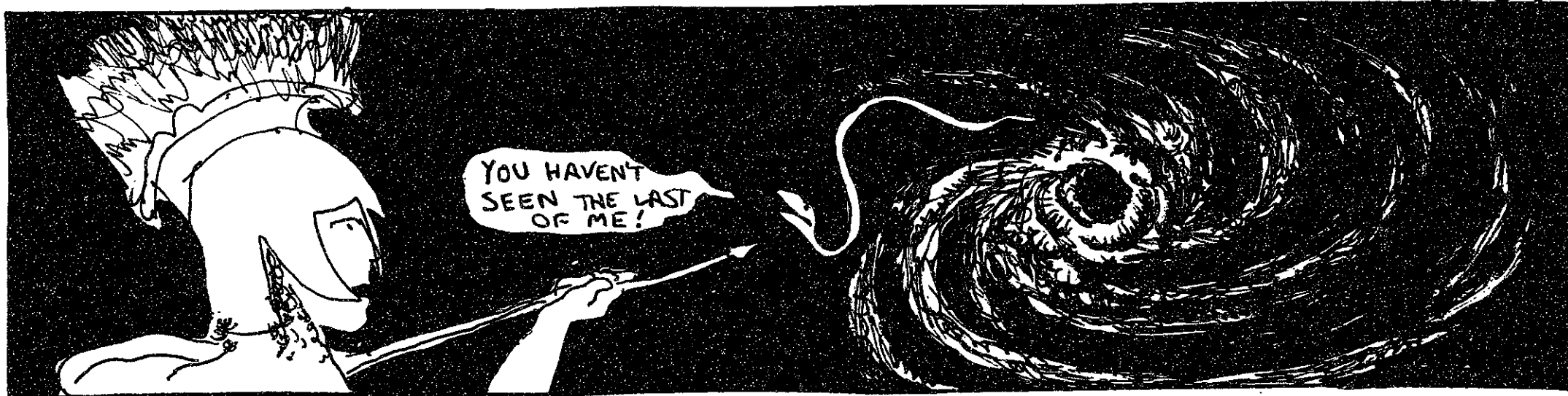
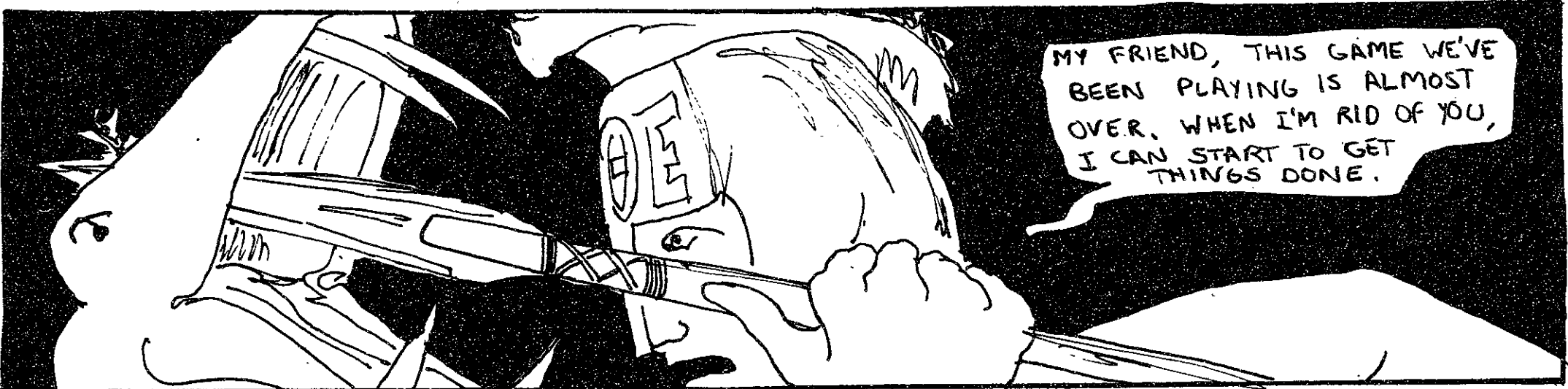
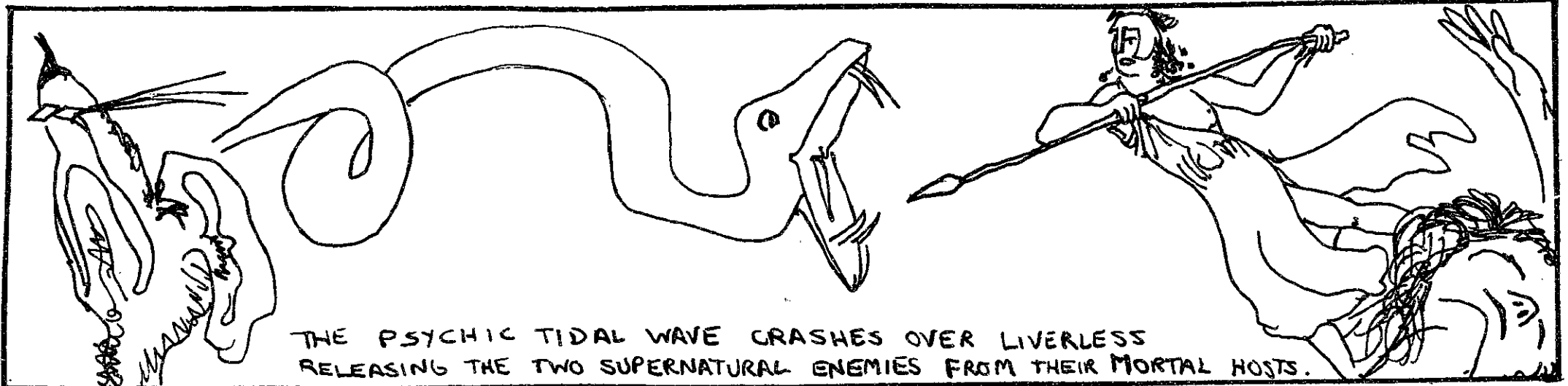
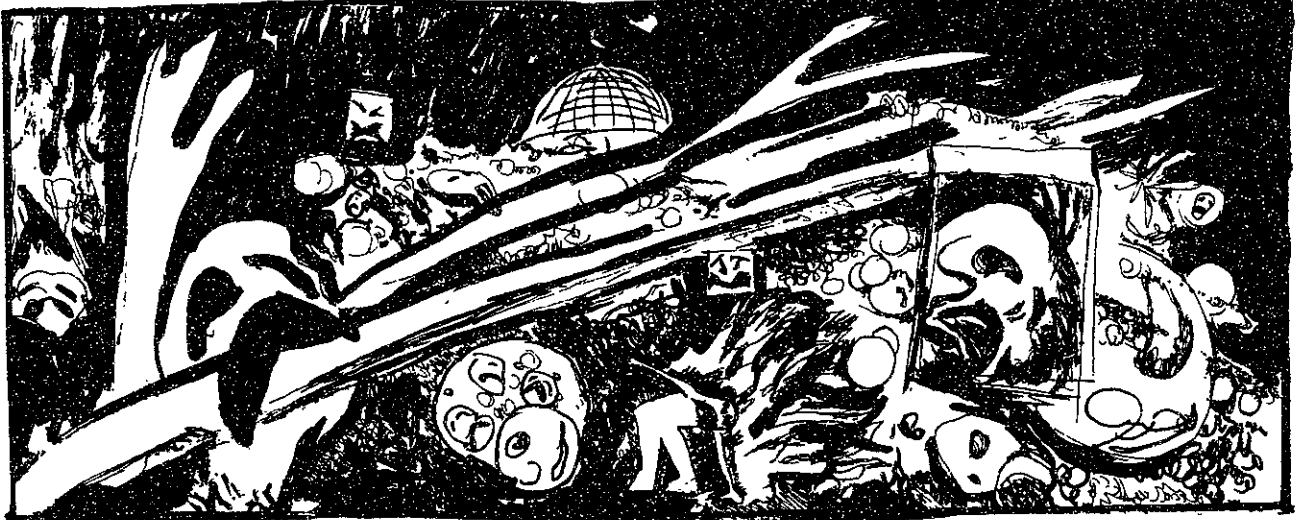
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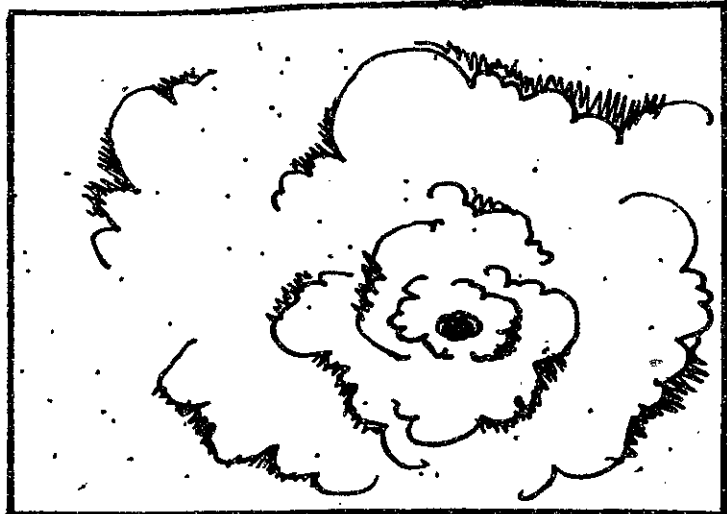
By Jim Bredt

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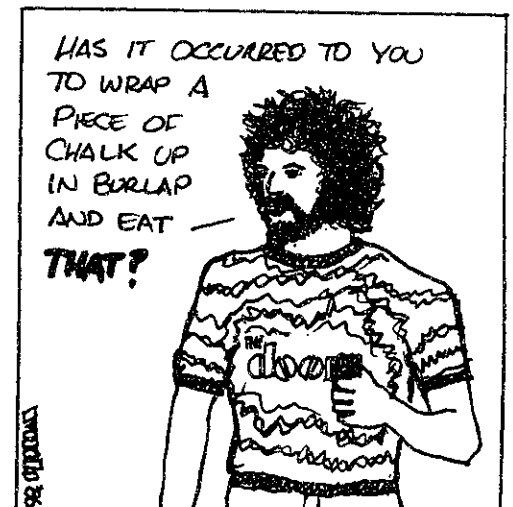
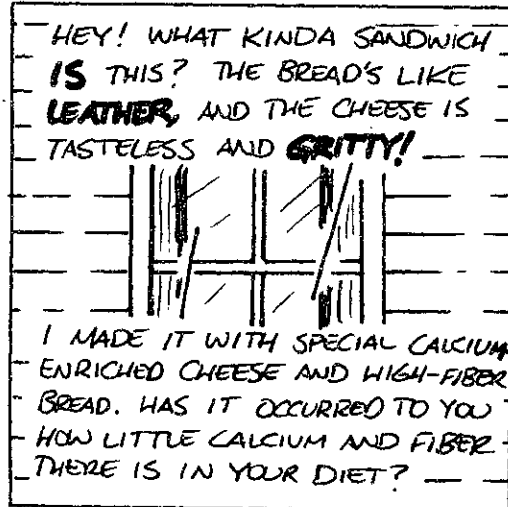
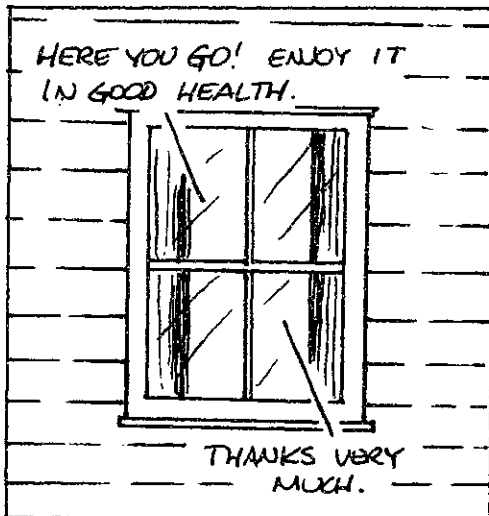


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# comics

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By V. Michael Bove



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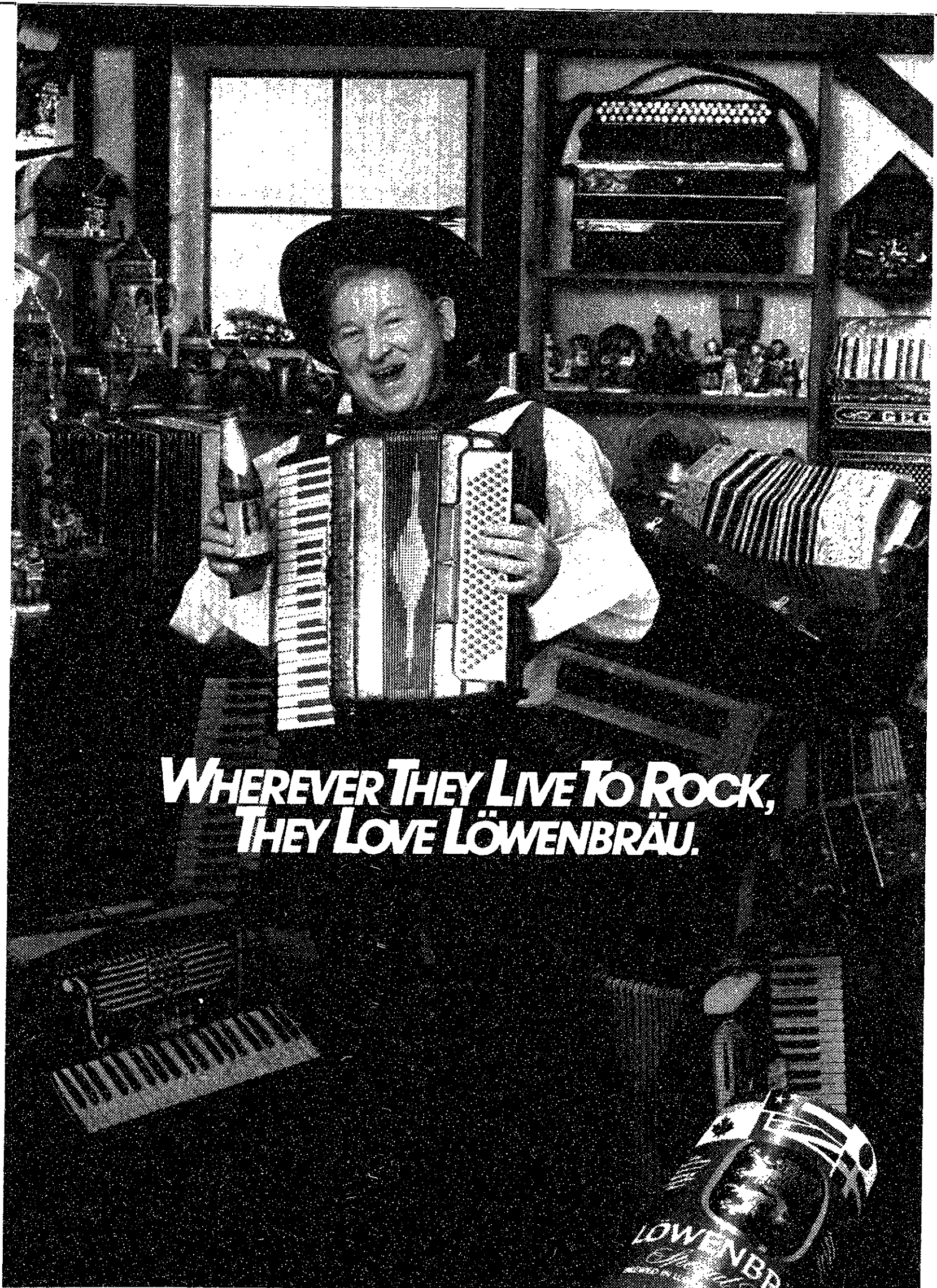
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# sports

## MIT plays in bridge tourney

By Julian West

A four-player team from MIT may have qualified for a place in the national finals in a college bridge tournament. The team placed third in the Atlantic Conference of the North American Collegiate Bridge Championship, held on Tuesday. The winning team in the region, New York University, is one of five teams to qualify for the final, to be held in St. Louis in March.

Because one of the six conferences had no competing teams, officials are looking for the second-placed team with the highest score. The University of Toronto, which placed second in the Atlantic Conference, is likely to be disqualified. Pending late or contested results, MIT would then be the highest-scoring second-place team.

Twenty-two universities in the United States and Canada fielded eligible teams for the competition. To be eligible, players had to be full-time university students. North-south and east-west pairs competed separately in the contest, and the top pairs were combined to form the official school team.

Kevin J. O'Donnell '87 and Ethan Rappaport '87 were the top east-west pair at MIT, and Mark A. Edeburn '87 and David G. Pickering '87 were the top eligible north-south. There is, however, some question of Edeburn's eligibility as a "special graduate student." A higher placing pair in the open competition were not

students.

The tournament was an unusual "par bidding" competition, in which players at each competing school played the same 24 deals. After the bidding on each hand, a slip of paper was opened which awarded a certain number of points to one pair for reaching one of a number of correct contracts. One player was then instructed to play a particular contract, regardless of the contract actually reached. Further points could be gained for correctly making the contract, or for correct defense.

The play therefore resembled a series of "bridge problems," akin to chess problems, rather than actual random deals.

The two MIT pairs scored a total of 248 points. The full unofficial results from the six competing schools in the Atlantic conference were: NYU 282, Toronto 253, MIT 248, Yale 211, Connecticut 192 and Harvard 183.

Other conference winners were the University of Virginia in the

eastern, the University of New Mexico in the western, and the University of Western Ontario in the central conferences. Michigan State appeared to have won the Great Lakes region, pending some late returns. There were no competitors in the Southern region.

MIT had been considered a "sentimental favorite" in the Atlantic conference by officials trying to predict the winners, according to Matt Guagliardo of the American Contract Bridge League in Memphis, TN.

The championship was sponsored by the ACBL and by the Association of College Unions-International. The winner of the St. Louis competition will go to represent the ACBL at the World Junior Team Championship in Amsterdam in July.

The ACBL has not been represented at the World Juniors for several years. Although North American collegiate par bidding competitions were once held annually, the championship has not been contested since the 1970s.

## Project Athena Survey Recipients

Please return surveys as soon as possible to Room E40-338. Every response is important. Thank you for your help. If you have any questions please call Dr. Karen C. Cohen on x3-0135.

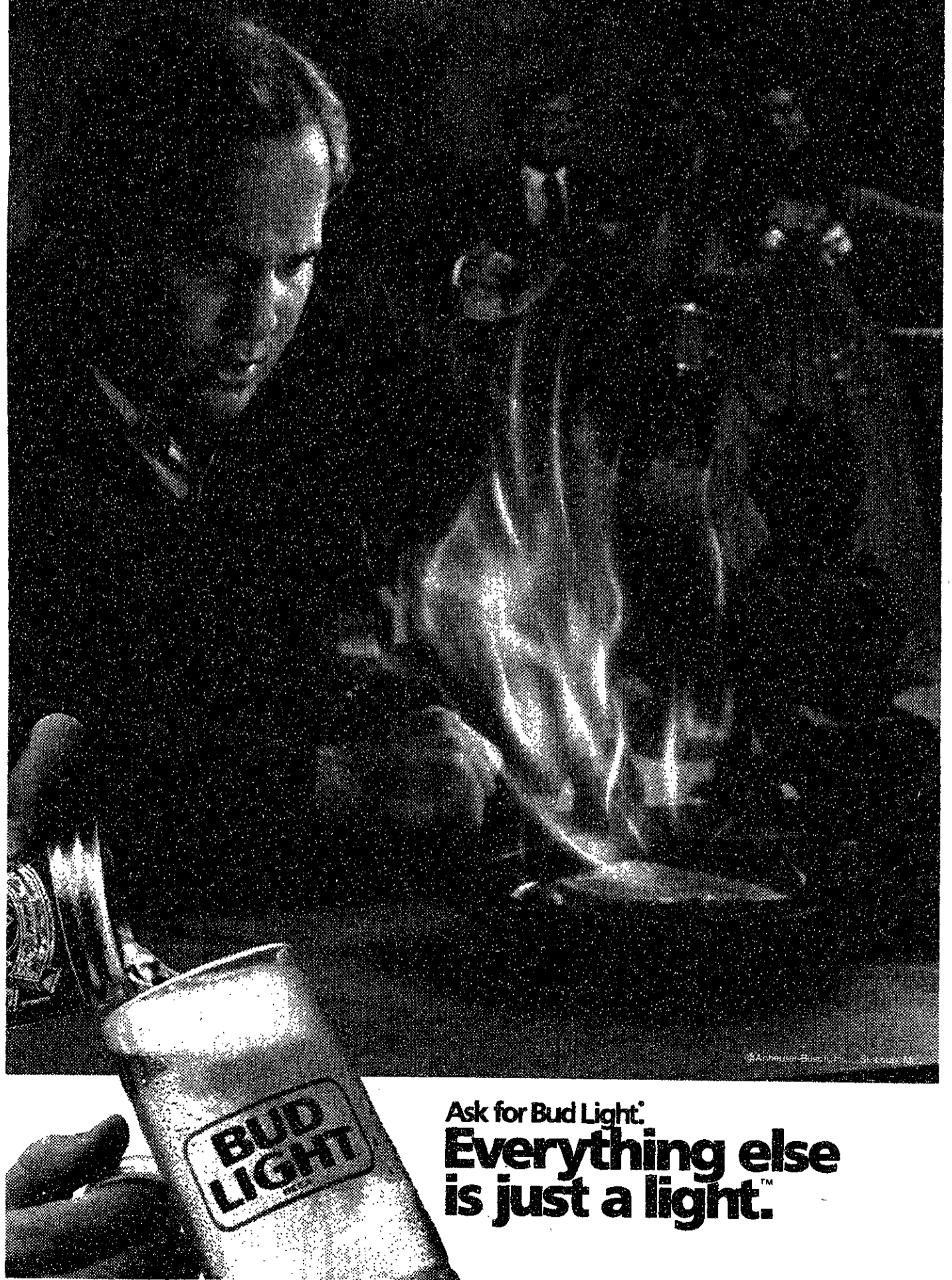
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Sports**



**Harvard-Epworth  
United Methodist Church**  
1555 Massachusetts Ave.  
(opposite Cambridge Common)  
Sunday Worship: 9 and 11 am

**Undergrad Ecumenical Forum**  
Supper (\$2) and discussion, 5:30 pm  
November 23  
John Ferris  
Music and Faith

If you just ask for a light,  
you never know what you'll get.



Ask for Bud Light.  
**Everything else  
is just a light.**