

## Harvard declines commercial role

By Richard Salz

"Our friends up the river made the right decision," commented MIT Biology Professor David Baltimore. Baltimore, speaking at an LSC-sponsored lecture on Tuesday, was commenting on the announcement by Harvard President Derek Bok that the university would not participate in the formation of a firm to exploit recombinant DNA technology.

"It's clear that the kind of proposal considered by Harvard has all sorts of difficulties and problems with conflict of interest," commented Francis Low, Provost. Harvard's decision not to get involved commercially relieves them of the pressure to consider and resolve many possible problems, according to Low.

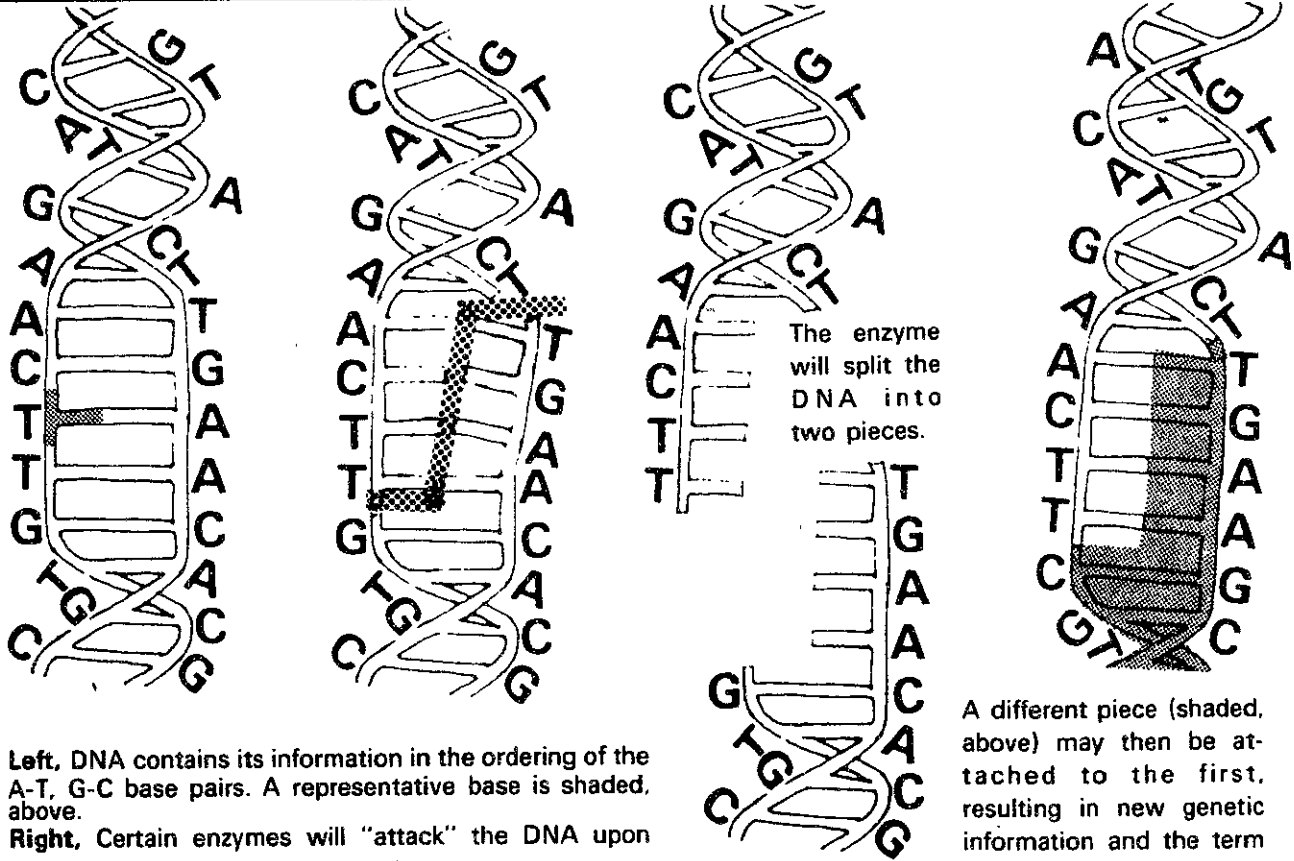
"Nobody here was taken with it [commercial involvement] as far as I know," he said. "People were more worried for Harvard's sake." He also observed that universities may wish to get involved commercially at a later time, but that it would be a "serious mistake" for either MIT or Harvard to enter the field now.

Bok's statement explained that Harvard has declined to take a commercial role in the potentially lucrative field, because "the preservation of academic values is a matter of paramount importance to the university and owning share in such a company would create a number of potential conflicts with these values."

Baltimore amplified on this, saying, "We can't allow ourselves to be open to the charge that we are abandoning our basic academic principles."

While Harvard will not get involved in a commercial venture "at this time," Bok's statement left open the possibility of other ventures if a means of preserving "traditional academic values" can be found.

Harvard was to have been one of the founders of and would maintain a minority interest in the firm. The company would use biological patents held by the university to compete with other firms in the area of commercial "gene-splicing."



Left. DNA contains its information in the ordering of the A-T, G-C base pairs. A representative base is shaded, above.  
Right. Certain enzymes will "attack" the DNA upon detection of a particular base pair pattern.

The enzyme will split the DNA into two pieces.

A different piece (shaded, above) may then be attached to the first, resulting in new genetic information and the term "recombinant".

(Graphic by Bill Spitzak)

## European views nuclear arms

By Alain d'Heurle

An end to the armaments leapfrogging and the eventual establishment of a nuclear-free Europe were called for by the British historian E.P. Thompson, speaking at MIT Wednesday

evening at a Science, Technology, and Society colloquium.

Speaking earlier in the day at MIT's Center for International Studies, Dr. Leslie Gelb, a former State Department official extensively involved in negotiating the first Strategic Arms Limitations Treaty (SALT I), proposed a new approach for future negotiations. Long-term, eight to ten year, arms control objectives should be agreed on by the two superpowers, and specific issues should be dealt with in step-by-step agreements, Gelb suggested.

The United States fails to consider the European perspective on arms, Thompson said. In his view this disregard is exemplified by the absence of any European representative at the US-Soviet talks on European disarmament now in progress at Geneva. The concept of a limited theater war, Thompson asserted, is a ploy to spare the US the consequences of nuclear war. With the so-called Carter doctrine which threatens a military response to a Soviet advance in the Persian Gulf area, he said, the Middle East has become another arena for a proxy, theater nuclear exchange.

"Living in a nuclear theater, like facing execution," Thompson

said, "concentrates the mind immensely."

Thompson was adamant in his opposition to the North Atlantic Treaty Organization's (NATO) decision to deploy the "modernizing" cruise and Pershing missiles. The cruise missile is a low-flying, subsonic, air or ground launched missile, which would greatly increase the striking range of the NATO forces, according to Thompson. The Pershing is a medium-range ballistic missile, and would be able to hit targets in the USSR four minutes after launch from Western Europe, he noted.

NATO decided last winter to deploy these new missiles in various NATO countries by 1983, but strong popular opposition to deployment is gaining ground, Thompson asserted. The Norwegian Parliament recently ruled out basing the missiles there, Holland and Belgium both have implemented moratoriums on deployment, and West German Chancellor Helmut Schmidt faces growing pressure on the issue from his own party, Thompson claimed. In Great Britain, which has the highest density of nuclear weapons in the world,

(Please turn to page 2)

## Frosh dislike commons

By Sarah Bingman

"It's a rip-off!" said one East Campus freshman about the newly initiated forced commons dining plan. A similar attitude seems to prevail among all freshmen on campus.

"I think it stinks," remarked Keith Glassman, a freshman from MacGregor, required to be on the 410 point plan. "It's very unfair for people to have to eat commons," he continued.

Glassman explained that he would still have opted for a meal plan, but not for one as large as his present plan since his meal schedule does not usually coincide with dining hall hours. Because of his schedule and the high cost of the point plans, he often eats at Lobdell.

Glassman also commented that while the food is "not all that bad," commons should "just not be forced. If the dining halls aren't doing well, they should close," he said.

"They could still support a solid system without forced commons," said Mark Polak, a freshman from Senior House. He explained that Walker is currently crowded, without the upperclassmen being on forced commons. "I'd be on it anyway."

On the food quality, Polak commented, "I don't think it's that good, but I don't like cafeteria food as a general rule."

Gary Oberbrunner of Bexley Hall, who chose to be on the 360 point plan his first year, said he saw combined room and board as an infringement of students' rights.

"It's definitely wrong," said Oberbrunner. "Just because other schools do it [mandatory commons] is no reason for MIT to do so." He commented that while one-half of Bexley Hall's freshmen begin on commons, more and more cook as time passes. Oberbrunner, who usually eats at Twenty Chimneys, said he

(Please turn to page 2)



The new Commons system has not been as favorably received by freshmen as the administration would have wished.

## New disposal rules will not be costly

By Andrew Robbins

On November 19, enforcement of recent federal environmental legislation began, outlining a new hazardous waste disposal process.

The "cradle-to-grave" control system outlined in Subtitle C of the Resource Conservation and Recovery Act (RCRA), 1978, brings intensive identification and tracking procedures into effect. The Environmental Protection

Agency (EPA) will now regulate anyone generating, transporting, storing, or disposing of more than 1000 kilograms of hazardous waste in any thirty day period.

The Massachusetts Hazardous Waste Management Act, passed in 1979, placed similar restrictions on hazardous waste handling, regardless of the quantities involved. State and Federal agencies are now working to coor-

dinate their environmental policies. Most Massachusetts generators produce less than the 1000 kilogram per month limit, according to Al Nadrone of the Division of Hazardous Wastes, and are regulated by the Department of Environmental Quality Engineering (DEQE).

The Safety Office handles MIT's hazardous waste, the bulk of which is produced by the chemistry, chemical engineering, and mechanical engineering laboratories. John Fresina, Director of the Safety Office, noted that MIT generates about 25,000 pounds (packaged weight) of hazardous waste every year. Each barrel of hazardous waste contains many smaller containers, each carefully packaged. Only one type of waste may be placed in one barrel.

Fresina commented that he does not expect the new laws to result in significant disposal cost increases. "Compliance will be

time consuming," he explained, summarizing the new legislation's primary effect on his office. The new law requires that all waste transported must be clearly labeled, a feature which poses special problems for Fresina. Any unlabeled containers must now be sent back to the labs and properly identified. Other problems cited include an increase in the amount of record-keeping involved, and the closer monitoring of the waste disposal process now necessary. MIT already has the required EPA generator permit and corresponding identification number.

MIT contracts with an EPA licensed vendor to transport and dispose of the waste it generates. According to Fresina, most of the waste ends up in Alabama and Maryland. Massachusetts currently has no suitable disposal facilities. Disposal sites which currently accept MIT waste are

(Please turn to page 3)



# Revised SALT process is urged by Leslie Gelb

(Continued from page 1)  
 he continued, a recent poll showed 30 percent of those questioned in favor of unilateral disarmament. Also, the Labor Party, which stands a good chance of winning the next election, is opposed to the NATO decision.

Thompson decried the current Soviet deployment of the mobile, ground-launched, medium-range, SS-20 missiles. However, he insisted that they do not provide the Soviets with any strategic advantage in light of the extent of the allies' combined "theater" arsenal. According to a press article which Thompson quoted, the Soviets now have 160 SS-20's and are building them at the rate of one every five days. The present historical trend, Thompson claimed, is a drift toward war. He called for activism as an alternative to complicity with disaster. "It is not individual mortality which is in question," he said, "but the destruction of Western civilization."

Official pronouncements and also press stories must always be read with skepticism and one eye on their intended propaganda effect, he said. He cited "deterrence" as a catchword whose real meaning is "proliferation". However, he warned against limitations on press freedoms.

Thompson is active in the British group European Nuclear Disarmament or END. END seeks a nuclear-free Europe, calling for the halt of the deployment of the cruise, Pershing, and SS-20 missiles as an initial step. It also hopes to establish improved lines of communication between East and West at all levels.

In his separate talk, Gelb advocated a new approach to strategic arms negotiations. By setting long-term objectives, he asserted, a guiding framework would be established and real progress could be achieved in step-by-step agreements. The broad objectives should be set and worked toward in eight or ten year periods, he proposed. Such a

statement of goals would be given weight by signed executive agreement promising to bargain in good faith.

The period of eight to ten years corresponds to the time required to get new weapons systems from the drawing board to deployment, Gelb stated. Therefore, he continued, this time span allows the two parties to predict what their particular fears and hopes are and to foresee areas of mutual interest.

Gelb put forward as possible long-term goals: assuring the survivability of land-based missiles, limiting anti-submarine warfare, achieving a comprehensive test ban, and limiting undetectable aircraft like "Stealth" and the cruise missile.

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A question and answer session will follow a brief presentation. For exact location and further details, contact Elizabeth Reed, Career Planning and Placement.

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Minorities and women are encouraged to attend the group session.

\*\*\*\*\*

# Frosh: mandatory commons is wrong

(Continued from page 1)  
 will probably use only 200 dollars' worth of his plan.

"I feel it's unfair that we had to go through forced commons," said Tomohiro Hasegawa of East Campus. "I'd be able to live much cheaper without it."

He added that \$4.68 is quite expensive for a dinner, especially for some of his friends on financial aid.

Hasegawa said most people on his floor, including upperclassmen, have Vali-dine cards. "Eventually in four years, people won't think twice about it," he said. As for the food quality in Walker, Hasegawa said it is "pretty awful" and noted that Walker also tends to serve his two favorite dishes on the same night.

This sentiment was echoed by a McCormick Hall freshman, who also said, "We're lucky to be eating in McCormick. It shouldn't be open to the public though," she said, "since it is crowded now, with only one class under forced commons."

She remarked that although such programs encourage

socializing, it causes many people to feel they must overeat to get their money's worth. She also suggested that different dormitories should have differing required points and differing costs depending on the needs of their users.

Laura Granger, a Burton House freshman voluntarily on the 360 point plan, said she has stopped eating commons. "I have had better food at other colleges," she commented. Although she did not choose Burton because it was a cooking dorm, she added, "Forced commons put too heavy of a demand on cooking dorms."

Other freshmen in Burton House said they have also dropped their meal plans, as commons food has become progressively worse and personal cooking is much cheaper.

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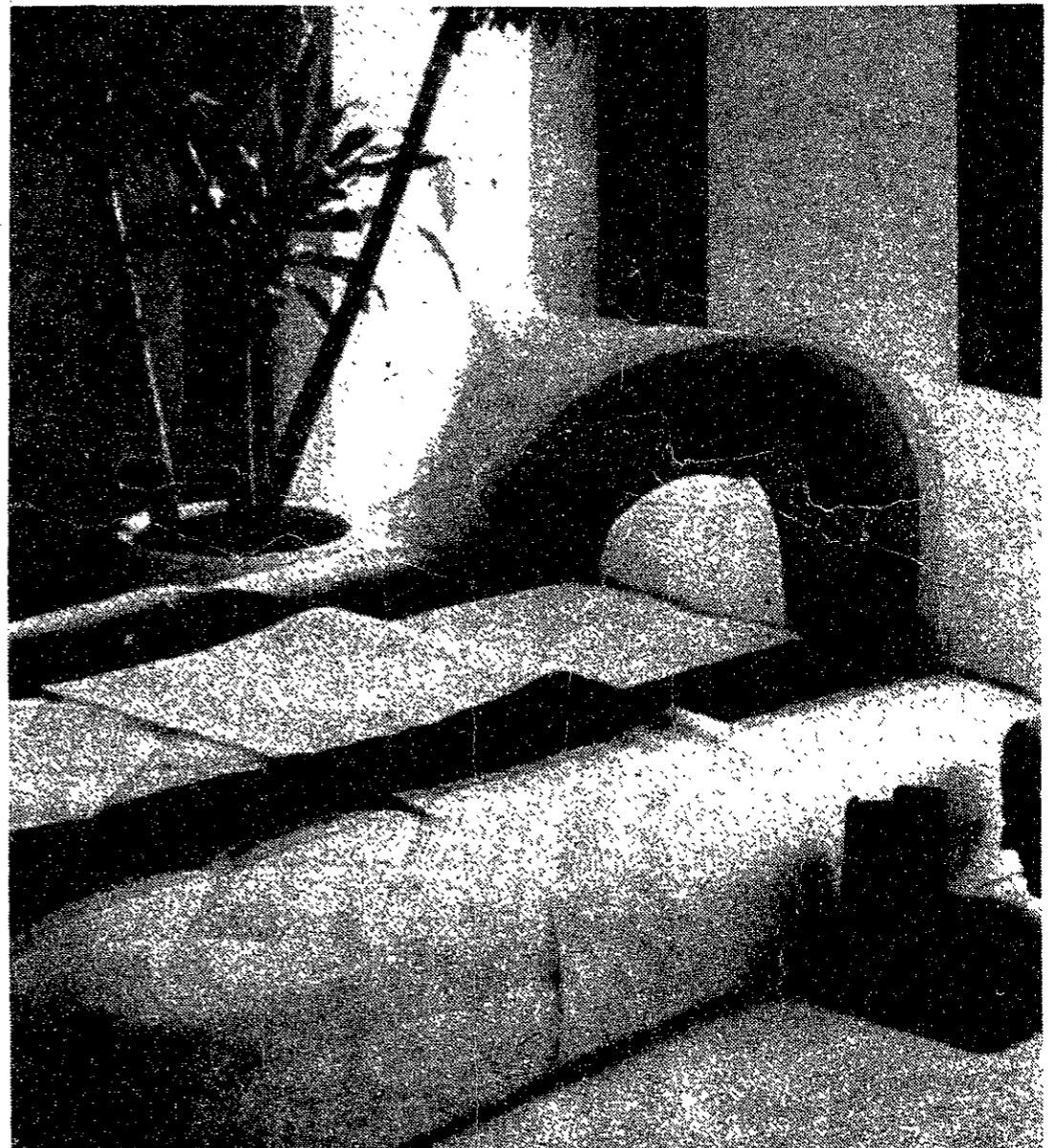
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MIT STUDENT CENTER

# Corbato appointed as computer "czar"

By Tom Lored

Dr. Fernando J. Corbato was appointed Director of Computing and Telecommunications Resources in the Office of the Provost last summer by Professor Francis E. Low, MIT Provost.

Corbato oversees the use of computing services for education, research, and administration in the MIT community. He is also responsible for assessing the plurality of the computing needs of the MIT community so that plans for future evolution of computing and telecommunication can be made.

The appointment resulted from a recommendation made in the Report on Future Computational Needs and Resources issued in 1979 by the Ad Hoc Committee. Following the committee's further recommendation, Corbato has set up an advisory committee, the Committee on Computing Environment. This committee is chaired by Professor of Physics Robert Hulsizer and had its first meeting Thursday, November 20.

Professor Corbato has worked extensively on the design of multiple access computer systems. In 1960 he led the effort to develop the Compatible Time Sharing System which led to the development of the Multiplexed Information and Computing Service (Multics) now in use at MIT and elsewhere. For this work he recently received the Harry Goode Memorial Award from the American Federation of Information Processing Societies.

Professor Corbato was born in Oakland, California, in 1926. He received a BS degree from the California Institute of Technology in 1950 and a PhD from MIT in 1956, both degrees

in physics. He then joined the MIT Computation Center, eventually holding the positions of assistant director in charge of programming research, associate director, and deputy director.

In 1962 Professor Corbato was appointed associate professor in the Department of Electrical Engineering and Computer Science. In 1965 he became full professor, and from 1974-78 he held the position of associate department head for Computer Science and Engineering.

Recently Corbato has been Cecil H. Green Professor of Computer Science and Engineering for a two-year term ending this year. He used the professorship to study large-scale integrated circuit design technology.

Corbato has written many technical papers and has co-authored several books. He is a member of the editorial board of the MIT Press, and a fellow of the National Academy of Engineering, the American Academy of Arts and Sciences, and the Institute of Electrical and Electronic Engineers.

Professor Corbato lives in West Newton with his wife and four children.

## Wastes defined

(Continued from page 1)

required to continue to do so, by Federal law. Problems could arise, however, if these disposal sites close.

RCRA defines hazardous waste as "a solid waste, or combination of solid wastes, which because of its quantity, concentration, or physical, chemical, or infectious characteristics may: (a.) cause, or significantly con-

## World

**Iran possibly ready to negotiate** — Hojatoleslam Hashemi Rafsanjani, speaker of the Iranian parliament, indicated unofficially that Iran may now be prepared to negotiate with the US on release of the 52 American hostages. In a news conference held on Tuesday, Rafsanjani said, "The United States has accepted the conditions. We have accepted to release the hostages." He indicated that Iran would release the hostages "gradually." US officials, including Secretary of State Edmund Muskie, expressed cautious optimism at this latest pronouncement of the Iranian government. Muskie recalled that this is not the first time in the year-long hostage crisis that Iran has promised to release its American captives.

**Pope chastised** — Barbara Engl, chairman of the League of German Catholic Youth, chastised Pope John Paul II in her visit to the Vatican Tuesday. Engl criticized the pontiff for "too many prohibitions" in the church's positions on marital life, sexuality, birth control, celibacy of the clergy, and the role of women within the church. The Pope sat six feet away from Engl during their meeting, with bowed head, and chose not to respond to any of her criticisms.

## Local

**Hearing ordered on 2½ challenge** — The Massachusetts Teachers Association, the Massachusetts Coalition of Police, and the AFL-CIO have filed suit in Suffolk Superior Court testing the constitutionality of the new law. Justice Ruth I. Abrams ordered that the case be heard promptly. The suit names Revenue Commissioner L. Joyce Hampers and other state officials as defendants. Plaintiffs are asking the court to issue injunctions prohibiting the new law from taking effect on December 4 as planned.

By Jerri-Lynn Scofield

## Weather

Milder today with southwest breezes, some cloudiness but mostly sunny skies. Highs will be in the upper 40's. A weak cold front will pass through with nearly no precipitation. Lows near 35. For Saturday, quite mild with highs near 50 with partly to mostly sunny skies. Lows Saturday night near 45. Chance of rain 30 percent today and Saturday.

By James Franklin

# news roundup

MIT STUDENT CENTER

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Steve Solnick

## Scientific hubris

An article in Tuesday's *Times* declared, "Scientists Urge Triage for Species Believed Endangered." In it, Dr. Thomas E. Lovejoy of the World Wildlife Fund is quoted as saying, "We're already on the threshold of mass extinction of many species. And I thought there ought to be a system that would give us a conscious choice in choosing to save one species after another." Triage is a wartime system used to allocate medical care to war wounded.

The Greeks had a word for this kind of talk. They called it *hubris*. It described actions which were generally offenses to the gods. Cases of man overstepping his bounds. Unearthly ego.

It is not hubris for scientists to stretch the bounds of science to its limits. Or even for man to alter his environment. This is the essence of the wonder of science.

It is scientific hubris, however, to forget that such achievements are indeed extraordinary. That they alter the normal natural chain-of-command.

Wildlife specialist Lovejoy suggested some criteria that scientists might use as they decide which species are worthy of man's efforts to save them, in light of limited resources for these efforts. They were: a) Biological-genetic values and uniqueness of the species; b) Values of the ecosystem the species inhabits; c) Economic—the species' agricultural, medical and industrial worth; d) Cultural and esthetic values

The last two considerations, economic worth and esthetic beauty, are the essence of the hubris here. The Olympians would be impressed with the audacity of the Wildlife Fund.

\* \* \* \*

They would also be impressed with the Gasohol industry, especially its Brazilian incarnation.

The average, healthy American diet requires .9 acres of cropland to meet its grain requirement. That's roughly 1600 pounds of grain annually (for a well-fed American). A car running on gasohol, in which a fraction of the gasoline is replaced by grain alcohol, would require an additional .8 acres of cropland to supply the grain for alcohol. A car which runs entirely on alcohol would use over 7.8 acres of cropland!

Brazil last year became the first country to commit itself to running its entire fleet of cars on alcohol. It planned to produce a quarter million automobiles this year which would run on alcohol. According to the national plan, the alcohol fuel program for automobiles in Brazil will claim 10 percent of the nation's cropland by 1985.

This is all a technological bonanza until one is alerted to the fact that, according to the World Health Organization, only one third of all Brazilians are properly nourished.

Using food in an undernourished country to run automobiles certainly smacks of hubris to me. The debate in the US over the Gasohol Program has been sufficiently muted that it appears we may be guilty of a similar transgression (especially in light of our role as a world grain exporter).

\* \* \* \*

Finally, an article in *Newsweek* this summer described the marvel of "Machines that Think."

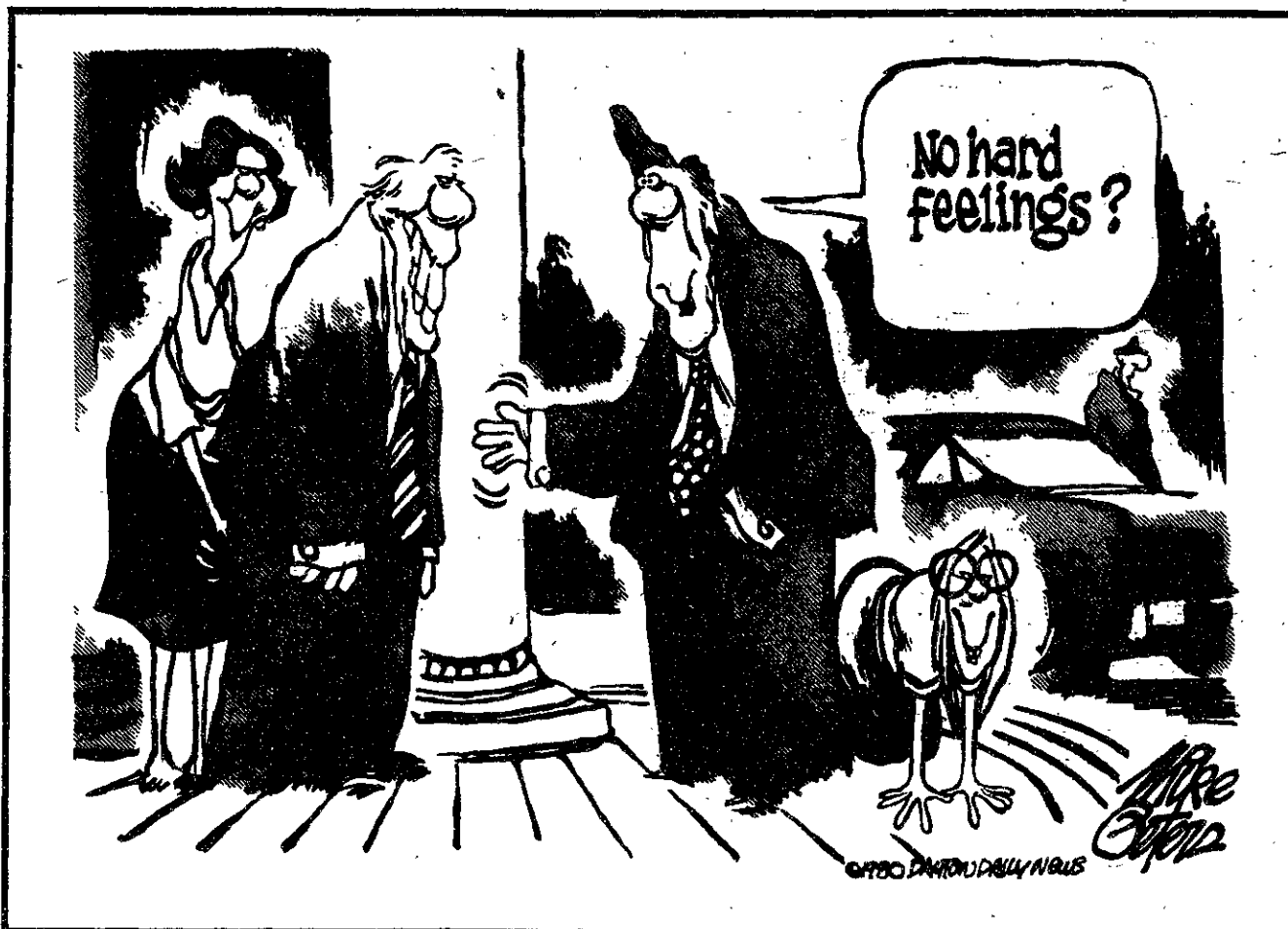
In it, MIT Professor Pat Winston explains that "machines won't be intelligent until they acquire what they need on their own."

Until?

The whole Artificial Intelligence boom, so familiar to many of us here, has provided many of the most startling examples of scientific hubris to be found. Researchers sometimes seem to be tripping over themselves to demonstrate who can raise the most eyebrows. Values may get lost along the way.

As one researcher in *Newsweek* confidently reminded us, if machines become smart enough to make us uncomfortable, "we can always pull the plug."

It may well be that the seeming trivialization of intelligence hinted at here may go as far toward bringing down the thunderbolts from Olympus as will the blind rule of rationality suggested by wildlife triage and alcohol cars.



→ feedback

## Time problem is misperceived

To The Editor:

Steve Solnick, in his provocative column, "Class of 2009?" or "I wouldn't want to send my kid here," takes it as self-evident that MIT students don't have enough time to "explore and grow." Maybe it's true. Or maybe it's false, but students think it is true, which would amount, of course, to much the same thing. Whichever, the question one must then ask is, why is there too little real or perceived time? On paper at least, our structure is such as to guarantee students ample time for exploration and growth.

Our credit unit system, which never ceases to perplex outsiders, has the purposes of constraining faculty to keep demands within bounds and guiding the student to a reasonable course load. Perhaps someone will argue that there are 12 unit courses that take more than 12 hours of work a week. But previous subject evaluations (too bad there hasn't been a comprehensive one recently) don't bear this out. Subjects nearly always fit within their hours and when they don't, adjustments are usually made. And a student need take only 45 units per semester to graduate in 4 years — even fewer units if the student enters with advanced placement credit, as many do. Certainly 45 hours doesn't use

up all the available time.

But maybe, in some cases, 45 hours of course work doesn't leave the individual with enough energy to pursue intense alternative activities. Here one must point out that the semesters, starting with the Registration Days and ending with the final exam periods and including weekends and holidays, occupy only about 60 percent of the year. It's not as though course work marches on relentlessly month after month, year after year. There are two big breaks each year and MIT explicitly encourages undergraduates to use one of these breaks to engage in

exploration and growth; that's why the January IAP period is supposed to be all about.

The prominent Undergraduate Research Opportunity Program (UROP) provides students with yet another way of pursuing individual interests, both within the semesters and without. In this program, students are encouraged — and often paid — by the Institute to engage in activities where they can bring their own initiative and creativity into play. There are also a number of regulations, which may or may not be well known, that ease the way for students who need tem-

(Please turn to page 5)

## Halfman calls for GAMIT board clues

To the Editor:

Once again our MIT community has been diminished by the destructive acts of a few who, while seeking the protection of anonymity, attempt to damage the efforts and program of a recognized student activity. The latest shattering of the GAMIT bulletin board on the main corridor was done some time before midnight on Thursday, November 12.

In an honest attempt to promote a direct and thoughtful exchange of views with the opportunity for some growth and understanding for all concerned, I make the following request: If you observed or participated in the "hacking" please make yourself known to me so that, with sensitivity, I can try to bring the principals together.

Bob Halfman  
Faculty Advisor to GAMIT

## The Tech

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Friday, November 21, 1980

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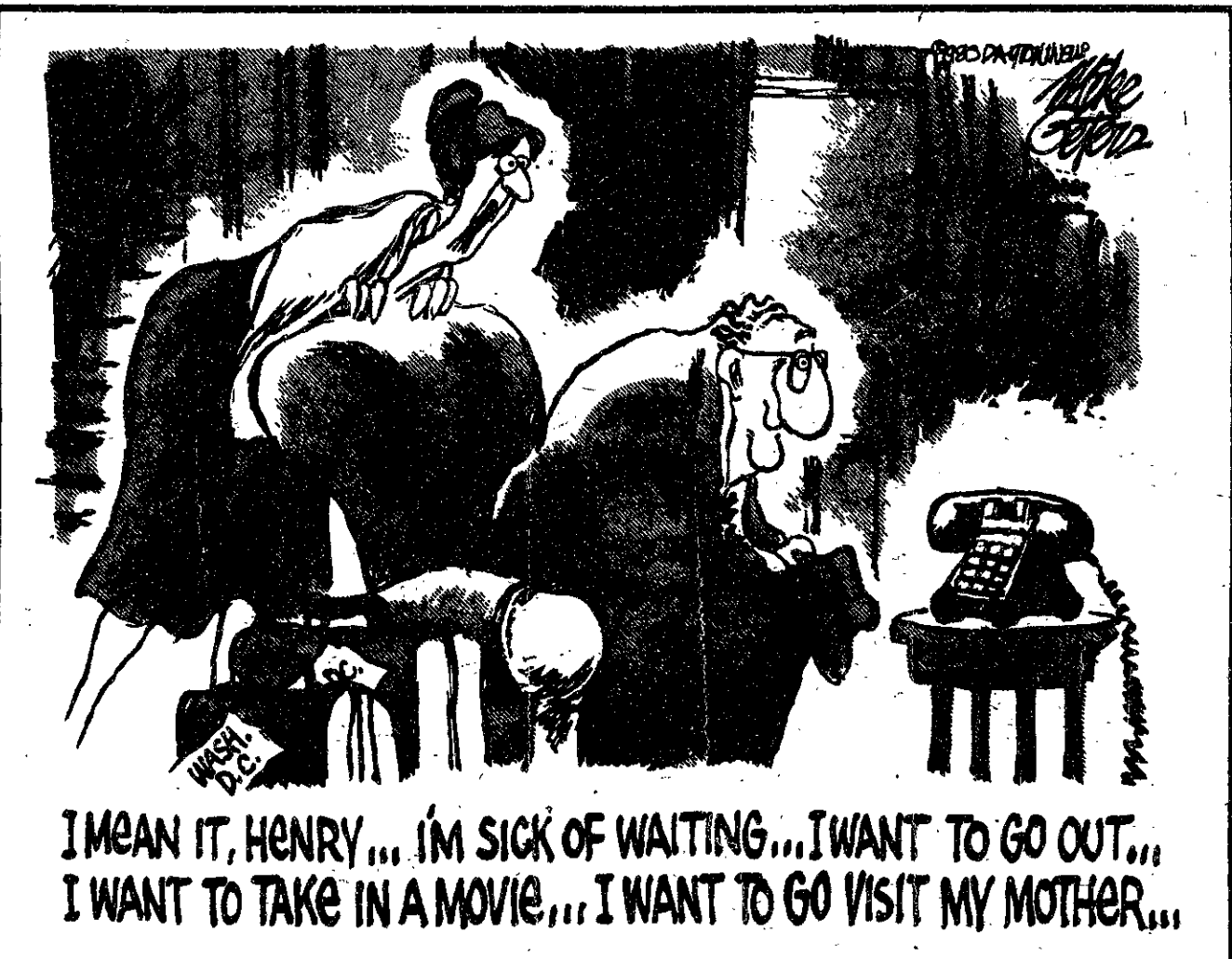
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**feedback**

**Problem sets help not hinder students**

(Continued from page 4)

porary relief from the regular academic program. There are options to register for a reduced load (with reduced tuition, it should be added), to take a leave of absence with the assurance of readmission, and to spend the "Junior Year Abroad" or a "Domestic Year Away."

It just doesn't seem as though there should be a problem. But the editor-in-chief of our oldest campus newspaper is convinced there is a problem, and points his finger at the weekly problem set as the culprit that locks students into such structured, overwhelming activity that they have no time left for anything else. Let's be very careful here. Problem sets are supposed to make life easier for the students, not harder. And this is not just a faculty perception, as colleagues of mine have discovered when they have tried to teach science courses without problem sets. Students want problem sets and find them useful. It is the essence of a course to provide a structure and a schedule. Other kinds of educational activities are important — even essential — but can't supplant the well-organized course as a means of bringing the learner up-to-date and ready to be independent.

The editorial tells the story of two Harvard students who simply took off in mid-semester, stayed away for a month, and returned to (we are lead to assume) live happily every after. I hope this story was neither meant nor will be taken very seriously. Your typical student at Typical American University with a typical course load just can't leave for a month without ensuring disaster. (With a reduced course load

it could be another story.) If Steve expects to find a university where one can just take off willy-nilly, he'll have a long, hard search to find one on this continent.

I haven't said we don't have a problem. The education at MIT is certainly a challenging one. Perhaps it doesn't leave enough unstructured time — I don't know. But if we do have a problem here, it will take a deeper analysis than has been carried out so far to pinpoint the cause.

Charles E. Holt  
Professor of Biology

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**Columns** are usually written by members of *The Tech* staff and represent the opinion of the author only, not necessarily that of the rest of the staff.

**Letters to the Editor** are written by members of the MIT community and represent the opinion of the writer.

*The Tech* will attempt to publish all letters received, and will consider columns or stories. All submissions should be typed, preferably triple spaced, on a 57-character line. Unsigned letters will not be printed. Authors' names will be withheld upon request.

**notes**

The National Space Club (NSC) will award a \$3,500 scholarship for the academic year 1981-1982. The scholarship is in memory of Dr. Robert H. Goddard, America's rocket pioneer. The award is given to stimulate the interest of talented students in the opportunity to advance scientific knowledge through space research and exploration. The 1981 award winner will be introduced to the nation's leaders in science, government and industry at the Goddard Memorial Dinner to be held March 27, 1981 in Washington, DC. The terms of the scholarship are as follows:

- The applicant must be a US citizen, in at least the junior year of an accredited university, and have the intention of pursuing undergraduate or graduate studies in science or engineering during the interval of the scholarship.
- The selection for the award is made by the NSC Committee on Scholarships on the basis of the following:

- official transcript of college record;
- letters of recommendation from faculty;
- accomplishments demonstrating personal qualities of creativity and leadership;
- scholastic plans that would lead to future participation in some phase of the aerospace sciences and technology;
- personal need is considered, but is not controlling.

- Applicants should apply by letter and provide the necessary data requested above no later than January 12, 1981, to the National Space Club, c/o Dr. Benjamin N. Early, 1629 "K" Street, N.W., Suite 700, Washington, DC 20006.

- Upon final completion of his work, the winner shall prepare a brief report on a topic of his selection to be presented to the National Space Club.

Funds awarded are paid to the winning student through his university before the new academic year begins.



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# Zappa in concert



Frank Zappa at the Ocean State Theater, Providence, RI, November 8.

The band was composed of Ray White and Ike Willis, on both guitars and vocals; Tommy Mars, keyboards; Vinnie Colaiuta, drums; Arthur Barrow, bass; and some rock star type named Steve on guitar and Bob something on keyboards and trumpet. Everybody got the chance to sing backing vocals, and even the drummer joined in once.

The show opened with the first of several instrumentals and Zappa solos. Then, halfway through the first verse of an unreleased song, someone threw the arm of their seat onto the stage. Frank stopped the band and admonished the wrongdoer, then proceeded to the next verse.

About four songs in he let each of the three guitarists and Tommy Mars take fairly long solos, all of which were very good, and towards the end the drummer took a few minutes by himself, but most of the solos were Zappa's.

They played a pretty wide selection, ranging from "I Ain't Got No Heart" off the first Mothers of Invention album, *Freak Out*, through "Magic Fingers" from *200 Motels*, "Yellow Snow" from *Apostrophe*, "Andy" from *One Size Fits All*, and even a mutated version of "Green Rosetta," which is from his most recent album, *Joe's Garage Acts II and III*.

All the playing was extremely tight except for one instance at the beginning of "Bobby Brown" where they almost lost the beat. Frank turned around with dropped jaw for an instant. It isn't fair that these guys are all so good but they don't DO anything. They tried to stop after only an hour and a half, but the audience wouldn't let them. The band wound up packing an

awful lot into the two hours they did play. More songs than I can remember with no breaks in between. And most of the arrangements were pretty complex.

Zappa is taking fewer musical risks than in the past. Sure there's your occasional weird rhythm, but too many of his recent songs are in four. And he tries a bit too hard to please all his new fans, the ones that started liking him when they heard "Dancin' Fool."

On this occasion, as usual, the bass could not be heard well enough. Also, there were too many high-pitched shrieks from the newest members of the band, Steve the rock star and Bob the second keyboardist. Of course, the shrieks tended to produce laughter, but after five or six songs you could predict when the next scream was coming.

Last May at the Music Hall in Boston, Zappa spent most of the time sitting on a stool with his back to the audience, tuning his guitar while the band churned out song after song. That irritated me a lot. This time he was in better form. After a solo he would give his guitar (once again a Les Paul sunburst; this time through six Marshalls) to a roadie and either conduct or sing or catch a butt.

Last time there were almost no solos that were not Zappa solos. This time there were a few. Most enjoyable, both times were Tommy Mars' keyboard solos, ranging from quiet jazz fills to the loud, majestic synthesizer chords he does so well... and so often.

One of the high points of the show followed the keyboard solo: Mars continued with the majestic chords while Vinnie Colaiuta played weird fills and Zappa gave us a mock tango solo, in the same vein as "The Sheik Yerbouti Tango," but longer, more exciting, less grating, and clearly improvised—Zappa would nod his head to Mars whenever he was about to modulate.

Another was "Magic Fingers," the version with the neo-"Louie Louie" part and the "I'm holding it... it's good for you; you can let go of it now" ending. All three "rhythm" guitarists played the riff while Ray White did most of the singing.

I still yearn for the days of *Roxy and Elsewhere*, with horns and more complexity, but I guess I have no choice but to accept what Frankie offers. The band was tight; I'm glad that I saw them. And I'm glad it was at a medium-sized theater instead of the basketball arena, though I feel sorry for the poor fans who got stuck standing in the aisles at the back of the balcony for their money — as much as \$11.50 at Boston ticket outlets.

Bruce Mason

## Aliens invade

*Aliens*, by various authors, edited by Jack Dann and Gardner Duzois, Pocket Books.

If you haven't read much science fiction, *Aliens* is a good place to start. It's a thoughtful and varied collection of stories by some of the best writers in the field. Written mostly in the sixties and seventies, the stories range in length from two pages to seventy, in tone from zany humorous to seriously philosophical, and in quality from merely good to breath-taking. They're bound to convince any skeptic that the field is capable of far more depth and subtlety than such popular successes as *Star Wars* and *Battlestar Galactica* indicate.

Edgar Pangborn's "Angel's Egg," written in the 50's, is perhaps a bit archaic, glowing with a trustfulness that now appears charming and naive. But for the most part, these stories ring with reality. James Tiptree, Jr., represented here by "And I Awoke and Found Me Here on the Cold Hillside," writes, with her usual piercing clarity, of people scarred, and still obsessed, while Algis Budrys, in "Be Merry," writes of people who have had their pasts ripped from them, and who are tentatively and suspiciously learning to live together without fear.

"Be Merry" is surely one of the best stories included, written with precise craftsmanship, and wisdom and compassion as well. Beginning slowly, it insinuates itself around your mind and leaves you drained. Also worth an especially careful reading are Robert Silverberg's "Reality Trip" and Damon Knight's "Rule Golden."

Editors Jack Dann and Gardner Duzois (both extremely gifted writers in their own right) have provided each story with an informative and well-researched introduction that, usefully for the novice reader of SF, anchors it both in the field and in its author's body of work. The introductions also place the story in perspective within the field. And for those whose appetites the collection has whetted, they have included a bibliography of landmark alien stories.

But *Aliens* is more than a mere survey—it is a portrait of ourselves. As the introduction to this book perceptively points out, the idea of beings from other planets excites us because of the possibilities it evokes. Yet, though those who write stories about aliens struggle to describe beings, events, and worlds unimaginably different, these stories most often end up reflecting ourselves and the concerns of our times. This anthology, comprised of stories written over the past two decades, reveals not only the concerns of the authors, but also the concerns of those who, here in the 1980's, gathered it together.

If these stories have anything but their quality in common, it is that they all address the confrontation of civilizations. Each creature in these stories, whether human or not, recognizably belongs to a culture. And for the most part, the conflicts in these stories result from the different expectations that each society teaches its members.

These creatures are, together, victims of the rigid structures that confine them and that are so much a part of them that only

the most brave or desperate can notice their existence. And the heroes, as in "Rule Golden," "Reality Trip," and "Angel's Egg," are those who reach through those implacable bars to touch the Others who are peering in.

All the creatures in these stories are civilized, which means trapped, and sometimes insensitive, and often scared. But it also means that they are well-intentioned, and ultimately, reasonable. Even the most horrifying of these aliens resembles people we know: the ones that eat humans are simply good businessmen; the ones that destroy the human race, attentive gardeners.

The book seems to claim, along with Ed Dorsey in "Be Merry," that all civilizations are alike. Perhaps this only reflects our desperate and battered hope that all nations are like ours: eager to compromise (over teacups) in some neutral country agreed upon by both parties.

Karen Shapiro

# Equus

Equus is presented by Dunster Drama Society with further performances tonight and tomorrow.

Eq... Eq... Eq... Horses... Forbidden... Horses... Eq... Horses... Worship... Horses... Sexy... Horses... Eq... Escape... Equus is alive at Harvard's Dunster House in a brilliant and powerful production by Michael Pillinger.

Equus is about a disturbed adolescent. But, it is also about his psychiatrist. And his parents. And society. The disturbed adolescent, Alan, is played here by Jonathan Magaril. The energy and total conviction in his performance was amazing; as the play develops, so the part builds up to reveal increasingly more of his character, his affliction of soul, and his past from which it flows. Equally well-cast was James Goldstein as Martin Dysart whom we first see as the impersonal, professional psychiatrist, but who gradually becomes something more. He spoke his lines lyrically, yet crisply. The two grow together until the terrifying end-scene in which the two characters' minds are irresistibly locked; Magaril and Goldstein were magnificent. But, so too was the rest of the cast. The horses were well-played to give the feeling of some supernatural power being present; the final scene, in the stable, brought all together like a nightmare. The horses' sound, their very presence spelled unsurmountable force, spelled terror. The set was simple, but fine. The lighting was superior, and important in establishing time and place. Student drama is rarely this good; I wouldn't miss Equus if I were you.

Jonathan Richmond

## At Symphony Hall

English Chamber Orchestra, Murray Perahia conducting, at Symphony Hall, Nov. 7.

Academy of St. Martin-in-the-fields, Nov. 9.

Scottish Chamber Orchestra, Nov. 11.

The English Chamber Orchestra gave a stunning performance on November 7. Its highlights were, without doubt, the two Mozart piano concertos, in A, K.414 and in E-flat, K.271, played and conducted by Murray Perahia. While the orchestra provided refined and smooth playing, Perahia, really seeming to be enjoying himself, produced a sound free and relaxed.

One rarely finds a soloist blending so perfectly with an orchestra as was the case during this performance; Perahia and the ECO were linked as a heart to a body, and were in perfect harmony. Mozart's bright face was on display, and yet there was a great deal more to be read into the music behind it. One found oneself lingering on each note of the detailed but open piano playing of the *andante* of K.414, and feeling the orchestra naturally arriving and departing like a light breeze. This is how Mozart should be played.

\* \* \* \*

Perhaps the least said about the Symphony Hall concert of the Academy of St. Martin-in-the-fields on November 9, the better. The Academy showed themselves to be virtuosos each and every one, and played the program through with remarkable technical adeptness. This was pleasing in the first piece, Handel's *Concerto Grosso* op. 6, no. 7, but in the second, Mendelssohn's *10th Symphony for String Orchestra*, and plain boring in the third, Mozart's *Eine Kleine Nachtmusik*. There is a difference between a clean, classical sound and a musically compressed and colorless one.

Iona Brown played solo violin superbly in Vivaldi's *The Four Seasons*, but, once more, the total sound was mechanical and lifeless; it was something of an endurance test to concentrate until the end, by which point it really seemed as if a year had gone by. Poor show.

Two days later, the Scottish Chamber Orchestra appeared in Symphony Hall, conducted by Jaime Laredo. I was not too impressed by the first part of the program which included works by Elgar, Mozart, and Bach. Laredo's violin technique did seem a bit rough for the Bach *Violin Concerto in D minor* (a transcription which I must admit to not particularly liking anyway). The playing of the orchestra in Mozart's *Symphony no. 29* was both full-bodied and fresh, however; the *andante* was given elegantly, even if the *allegretto con spirito* did come off a little heavily.

After the interval, Vivaldi's *The Four Seasons* was performed. Although the Academy of St. Martin-in-the-fields might justifiably lay claim to greater virtuosity, the Scottish Chamber Orchestra played with a much greater understanding of the programmatic meaning of the work, and as a result produced a performance that was infinitely more enjoyable. In the second concerto, *Summer*, for example, one really felt the heat of a hazy summer's day in the first movement. Laredo performed a beautiful solo in the *largo*, and the orchestra came together for an exciting *presto*.

The first movement of *Autumn* had great vitality to it; pleasant harpsichord playing blended well with the orchestra. The slow movement was, if anything, more beautiful than that of *Summer* had been; its calm ethereal quiet was as relaxing to the audience as it was clearly meaningful to violin soloist Laredo. The final *allegro* was perhaps played a little coarsely, but was hugely enjoyable; one did get the feeling of a hunt underway, which is what this movement is supposed to symbolize.

Laredo's playing was brilliant and characterful *The Four Seasons* through. The style of the rest of the SCO can be similarly described. Maybe they haven't reached the pinnacle of technical perfection of the Academy, but they play like humans, and not like humanoids.

Jonathan Richmond

# TRIS

## MUSIC

### MIT

The MIT Dramashop will present a series of one-act plays: *After Magritte*, *The Police* and *Line* on Nov. 20, 21 & 22 at 8pm in Kresge Little Theatre. Admission is free.

\* \* \* \*

The MIT Community Players' production of the children's show, *Winnie the Pooh*, will play Dec. 5 at 7:30pm, Dec. 6 at 2 & 7:30pm and Dec. 7 at 1pm in Kresge Little Theatre. Tickets are \$3, \$2.50 with MIT ID, \$1.50 for children. For information and reservations, call 253-4720.

Balloon, The Hot Dates, The Eggs Fri. at the Channel  
 Tiny Desk Units, Bound and Gagged Fri. at The Underground  
 The Thrills, La Peste Fri. at Jasper's  
 Wunderkind, Someone and the Somebodies Fri. and Sat. at Cantone's  
 The Nerve Breakers, The Taxi Boys, New Models Fri. at The Rat  
 Rockpile, Moon Martin and the Ravens at The Orpheum Sat.  
 Olingo Boingo, Arthur Slick and the Nice Sat. at The Channel  
 Human Sexual Response Sat. at The Paradise  
 John Butcher, Vinny Band, France Sat. at The Rat

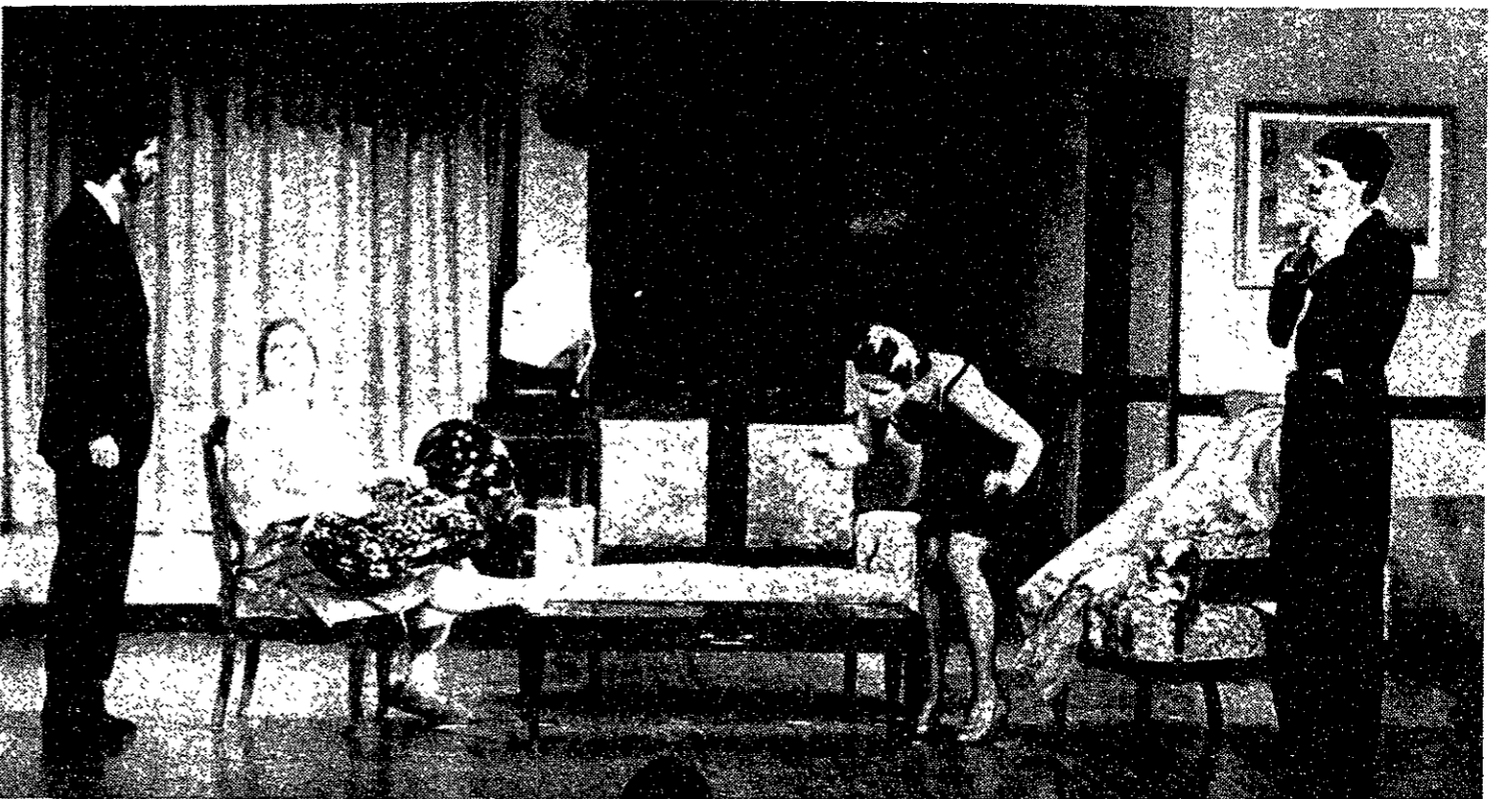
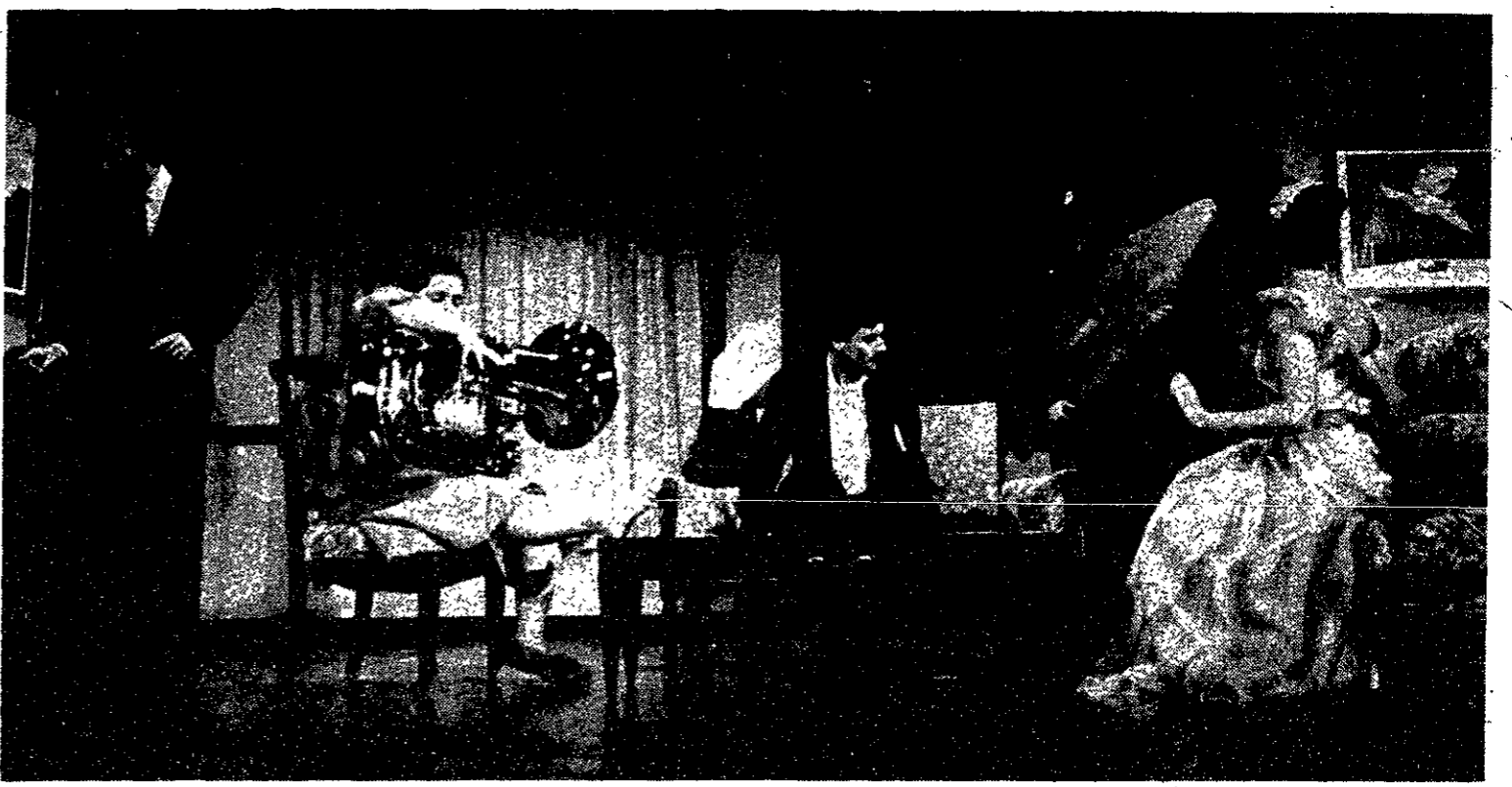
# ON THE TOWN

Al Stewart Nov. 28 at The Paradise  
 Lydia Lunch Nov. 29 at The Channel  
 Busboy Nov. 29 at the Paradise  
 Cars Nov. 30 at the Boston Garden

# French cooking, American style.



# 15



# dramashop

After Margritte, a one act play by Tom Stoppard, is being presented by Dramashop this weekend, along with Slawomir Mrozek's *The Police* and Steve Thornquist's *The Line* (Photos by Rick Parker).

## classified advertising

**Surgeon's Scrub Suits**  
Shirts \$12; Drawstring Pants \$14.  
Colors available: Brite Green, Olive Green, Ciel Blue. Sizes: S-M-L. Visa and MC accepted, or send a check to The Trading Co., Box 1007, Warwick, RI 02888.

**Word Processor**  
For sale: Olivetti 501 dual disk memory typewriter with LED display, 50 disks and forms tractor, excellent condition, factory maintained. 547-6590

**THIEF!**  
You stole a leather jacket Fri 11/14/80 at "The Games." Please at least return the buttons. Very sentimental. C Waite, 4 Ames St., Cambridge. C-303.

**Turntable for Sale**  
Onkyo CP-1010A semi-automatic, belt drive, with cueing, strobe, cover. Tracks to 3/4 gram. Mint condition, one year old, owned by audio engineer/writer. \$100 or best. 424-1253

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**Roommate Wanted**  
Female student or employed wanted to share 2-bedroom apartment in Allston from 12/1/80 or 1/1/80 to end of school year. \$212.50/mth unfurnished includes heat or \$250 furnished. Near T. Call Dorothy, 783-0249 evenings.

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# HILLEL Academic Festival

**Program: I**  
**Franklin Fisher**

Professor of Economics, MIT Master of Ceremonies

**Hamakor Israeli Dance Group**  
**Kitty Dukakis**

Reading Hassidic Tales

**David Landes**

Professor of Economics, Harvard  
'Jewish Time'--Jews, Technology, and Watch Making

**Rabbi Joseph Polak**

Boston University  
Three Cantoral classics

**Three Boston Publishers**

Leonard Fein, *Moment*, Martin Peretz, *The New Republic*, Morton Zuckerman, *The Atlantic Monthly*  
--A Light Conversation

**Joseph Silverstein**

Concertmaster, Boston Symphony  
Bach for Unaccompanied Violin

**November 23, 1980**

**8:00 pm**

**Kresge Auditorium, MIT**

**II**

**Henry Rosovsky**

Harvard Dean--Master of Ceremonies

**Klezmer Yiddish Band**

19th Century Jewish Jazz

**Daniel Bell**

Professor of Sociology, Harvard  
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**The Princeton Trio--Shubert's**  
**"Shepherd on the Rock"**

**Professors**

Jacob Cohen, Martin Halpern, and Alan Levitan,  
Brandeis University

**Zamir Chorale**

Chamber Chorus Selections



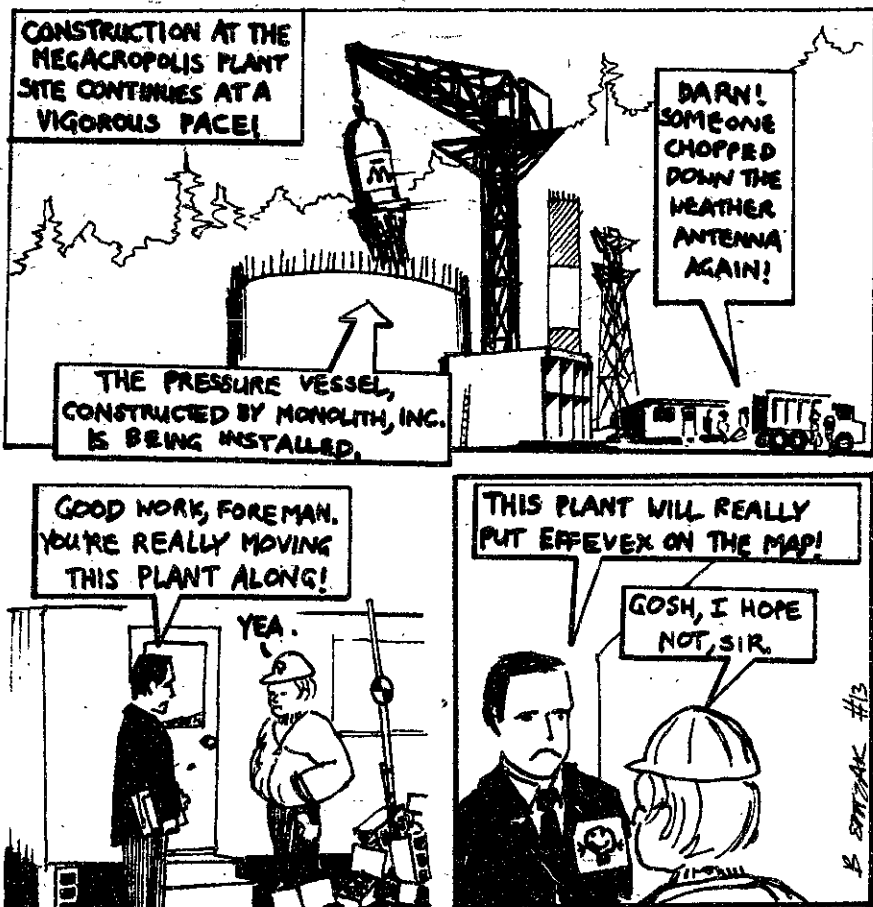
**TICKETS: \$5 (student)**

**Info & Tickets: Hillel x2982**

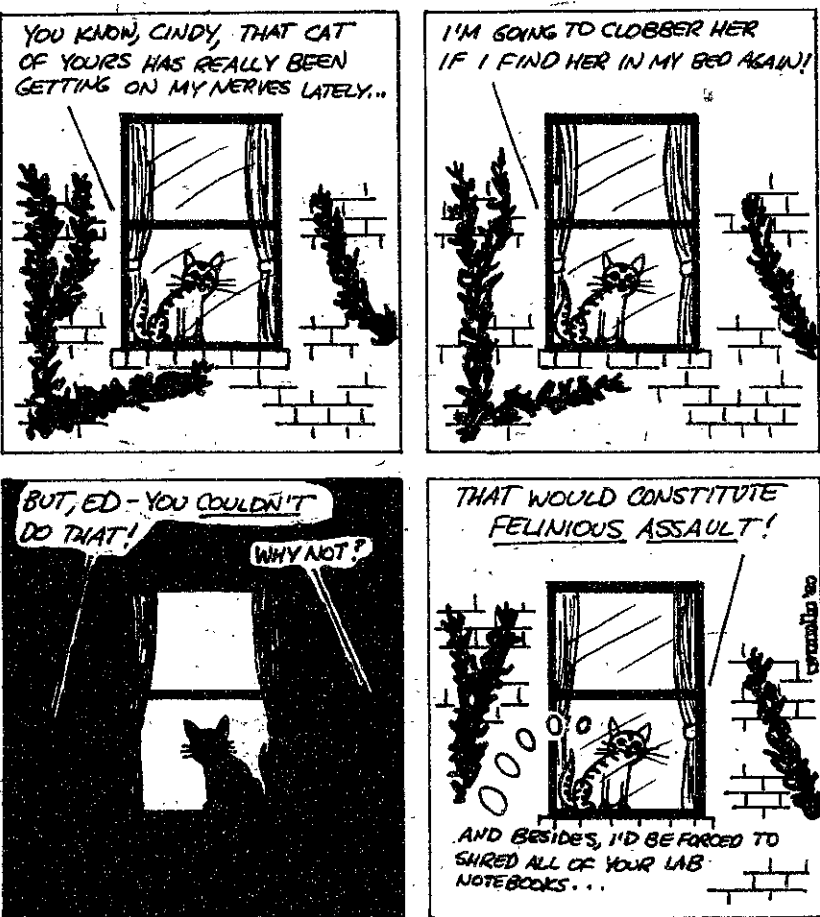
**312 Memorial Drive**

# comics

Technicality  
By Bill Spitzak



Outside Looking In  
By V. Michael Bove



Paul Hubbard  
By Kent Massey



Stickles  
By Geoff Baskir



## GSC NEWS

### GSC

With one of our most successful Graduate Orientation Programs to date, the GSC has settled down to its work for the current academic year. All Council meetings so far this semester have had excellent attendance, and the working Committees have started accumulating the membership they need to be effective.

The roster of the Council to date looks like this:

**Sharon Lee**, President, Architecture; **Cliff Behmer**, Treasurer, Nutrition and Food Science; **Rick Forber**, Secretary, Physics; **Dan Goode**, Civil Engineering; **Luu Nguyen**, Mechanical Engineering; **Sanjiv Mittal**, Materials Science and Engineering; **Chris Orvig** and **Cindy LuBien**, Chemistry; **Lori Lamel**, Electrical Engineering and Computer Science; **John Prince**, Biology; **Orlando Jett** and **Liz Fisher**, Chemical Engineering; **Becky Black**, Urban Studies and Planning; **Paul Lagace**, Aeronautics and Astronautics; **Roger Hurwitz**, (petition pending), Political Science; **Susan Colley**, Mathematics; **George Huffman**, Meteorology and Physical Oceanography; **Shelley Weinstock**, Nutrition and Food Science; **Glen Krc**, Nuclear Engineering; **Alec Marantz**, Linguistics and Philosophy; **Linda Laatsch**, Interdisciplinary Studies; **Vera Ketelboeter**, International Students; **Nancy Wright**, (petition pending), Ashdown Association; **Jonathan Richmond**, Tang Hall Residents' Association; **Dan Doan**, (petition pending), Westgate Association.

Representative positions for Departments or Living Groups still open include: **Architecture**, 1 position; **Electrical Engineering and Computer Science**, 2 positions; **Physics**, 1 position; **Psychology**, 1 position; **Earth and Planetary Science**, 1 position; **Economics**, 1 position; **Ocean Engineering**, 1 position; **Management**, 2 positions; and **Eastgate**, 1 position.

If your Department or Living Group does not have a representative, you are passing up an opportunity to let your feelings about graduate student life and policies be known. Contact the Council's Administrative Assistant, **Anne Gwinnett**, at x3-2195 for information on becoming a Council member.

### TALBOT HOUSE WEEKEND

Approximately 20 graduate students, including 15 Council members, spent an October weekend at Talbot House in Vermont in order to devote a significant amount of time, not normally possible at Council meetings, to discuss two of the more important issues for graduate students: housing and tuition and financial aid. Greg Smith, a member of the Corporation, was kind enough to sit in on our discussions and provide insight into the Institute's policies. Results of the discussions were reported to the full Council at the October 23rd meeting of the GSC.

### HOUSING AND COMMUNITY AFFAIRS COMMITTEE

The HCA Committee, convened by George Huffman (XIX) is tackling the difficult question of graduate student housing. Top on their list of priorities is examining the issue of graduate housing tenure proposals. The Committee is in dialogue with Dean Sherwood of the Office of the Dean for Student Affairs to offer advice on student feeling about the issue. The Committee is attempting to offer some proposals for alleviating the long-term situation in graduate housing, which has been called a "crisis" situation for two years now. HCA would also like to expand its membership and welcomes any graduate student interested in housing and community affairs.

### ACADEMIC PROJECTS AND POLICY COMMITTEE

The APP Committee will be concentrating its efforts on investigating the tuition and financial aid question. They are working in conjunction with the Executive Committee of the GSC on the issues involved. The latter, and members from the APP, meet with Dean Wadleigh of the Graduate School Office and John Curry, Director of Finance, and will be meeting with the Alumni Association and members of the Fund Raising Campaign.

### ACTIVITIES COMMITTEE

The Activities Committee, chaired by Richard Celotto (X-III(A)), recommended the recognition of several new graduate student clubs. It has made several appropriations to various requesting activities and is attempting to insure that all GSC-recognized clubs are aware that they may be able to get some funding from this Committee.

### OTHER COMMITTEES

**Nominations Committee** — The Nominations Committee has completed most of its interviews for Faculty and Presidential Committee. Several Committee seats are still open and need graduate student representation. They are: IAP Policy Committee, the Medical Advisory Board, Prelaw Advisory Council, Committee on Safety, Committee on Toxic Chemicals, and the Dining Advisory Board. CALL THE GSC OFFICE AT x3-2195 FOR MORE INFORMATION!

**Affirmative Action Review Committee** — The Council renewed the charter of the Affirmative Action Review Committee which intends to complete the survey of departments it started last year.

**GSC/Ashdown House Dance Committee** — During the Halloween weekend, the GSC and Ashdown co-sponsored a large party which was a great success. It hopes to be holding another graduate student dance next semester.

**the graduate** — This summer the Executive Committee decided to discontinue publication of *the graduate* and will be following the UA's method of reaching its constituency through news reports in *The Tech*. This column represents the first of what is hoped to be a monthly report to the graduate student body on the activities of the Council. Feedback is always welcome.

### COUNCIL MEETINGS

The next meeting of the Council is November 20th, at 5:30 p.m., in 50-221 (Walker Memorial, riverside). All members of the graduate student community are invited to attend. Please RSVP at x3-2195. We look forward to seeing you there!

# notes

## Announcements

**TODAY IS DROP DATE: LAST DAY TO CANCEL SUBJECTS FROM REGISTRATION.**

\* \* \* \*

Registration material for second term will be available for all regular students in Lobby of Building 10 Mon., Dec. 1 and Tues., Dec. 2.

\* \* \* \*

The Office of Foreign Study will be open on Mon., Nov. 24 from 1 to 5pm instead of the usual hours of 9am to 1pm on Wed., Nov. 26.

\* \* \* \*

Future growth of the American economy is the subject that economist **Lester Thurow** will discuss at the Cambridge Forum on Wed., Nov. 26, 8pm, 3 Church St., Harvard Square, Cambridge. Free and open to the public.

\* \* \* \*

The MIT Press and Yale University Press will sponsor a joint **Holiday Book Sale**, Dec. 4 & 5 from 10am to 9pm at the Student Center near the main entrance, at 84 Mass. Ave., Cambridge.

Thousands of books representing hundreds of titles will be discounted up to 90 percent. Gift books, art and architecture, photography, linguistics, history, engineering, economics, math and physics, music, and life, earth and space sciences are among the varieties and subjects at discount.

\* \* \* \*

The Boston University School of Theatre Arts will present Thomas Middleton and William Rowley's Jacobean drama, **The Changeling**, Dec. 2-5 in Studio 104 at the University's School for the Arts, 855 Comm. Ave. All performances will begin at 8pm.

\* \* \* \*

The Boston premiere of **Artichoke**, by Joanna Glass, will be presented by the Boston University School of Theatre Arts, Dec. 3-6 in Studio 210 at the Boston University Theatre, 264 Huntington Ave. All performances will begin at 8pm.

\* \* \* \*

Approximately 45 fellowships will be awarded to students enrolled in doctoral programs in the humanities and social sciences at US graduate schools. All requirements, except thesis, must be complete by June 1981. Winners will receive grants of \$400 per month for up to 15 months of full-time dissertation research and writing. A supplementary grant of \$1,000 may be requested for related expenses. Deadline for request of applications is January 12, 1981. For further information see Dean Jeanne Richard, room 3-136 or write directly for application to: Newcombe Fellowships, Woodrow Wilson National Fellowship Foundation, Box 642, Princeton, NJ 08540.

\* \* \* \*

Men's & Ladies  
**COWBOY BOOTS**

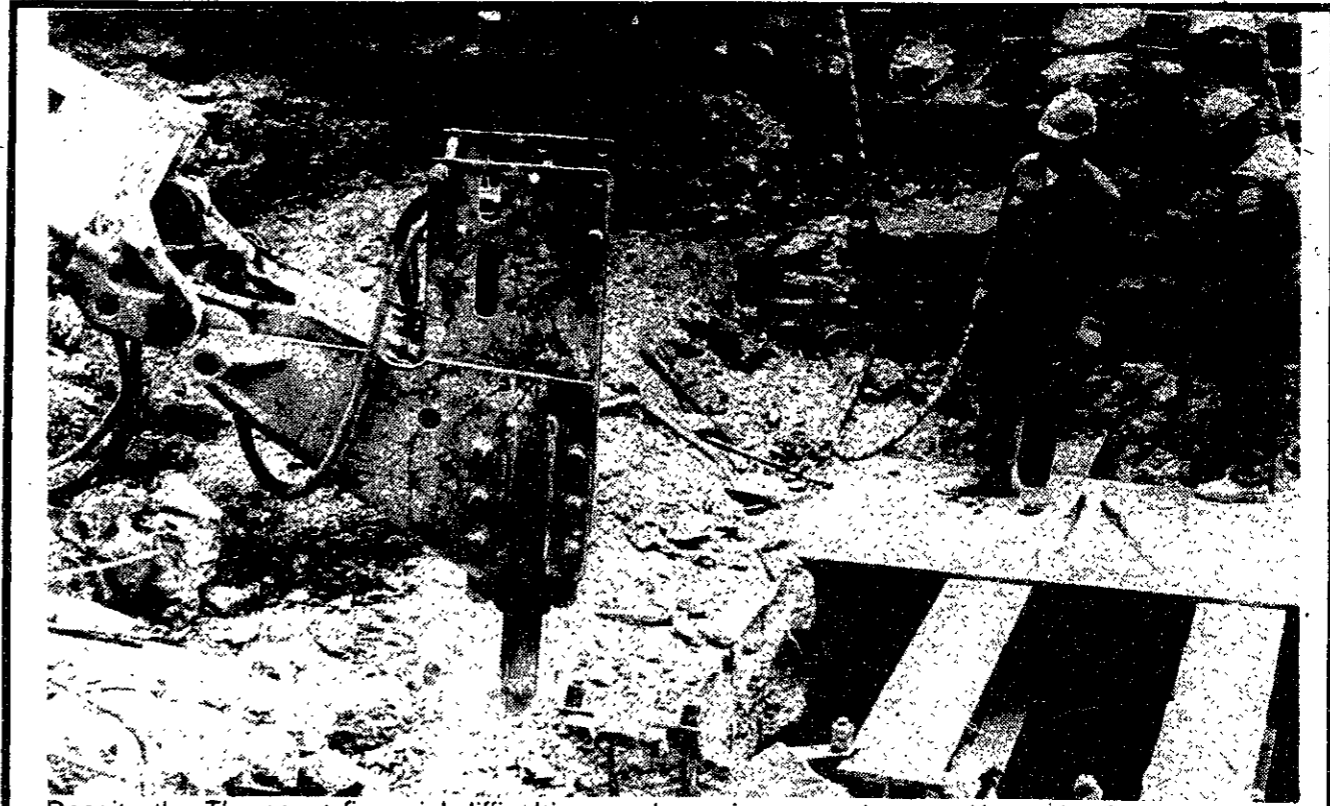
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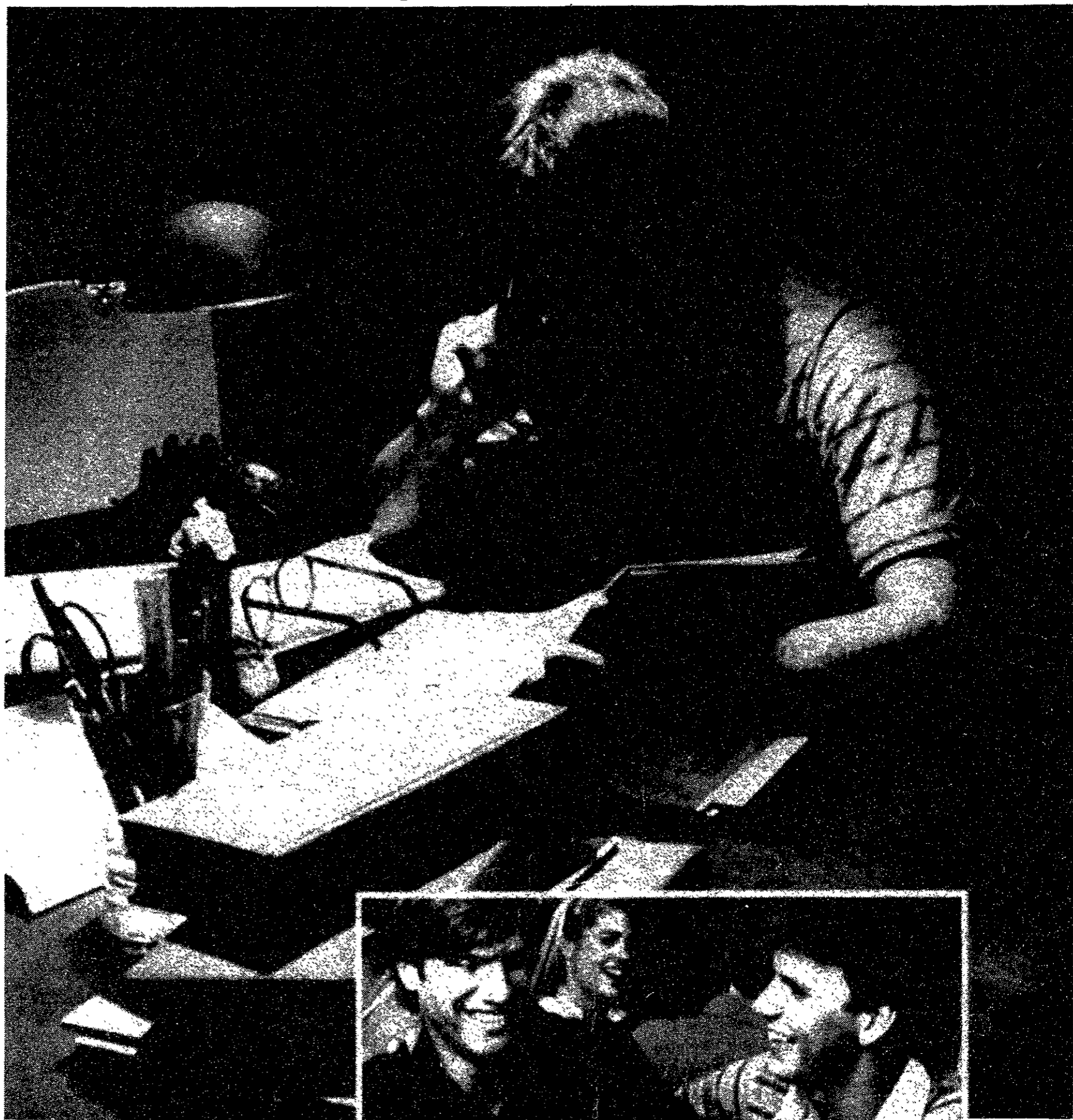
Riding Apparel, 292 Boylston St., Boston

Preapplication forms are now available for the 1981 **National Science Foundation Graduate Fellowship** competition. NSF plans to award approximately 400 new 3-year fellowships for study leading to master's or doctoral degrees in the mathematical, physical, medical, biological, engineering and social sciences, and in the history and philosophy of science. Eligibility for NSF Graduate Fellowships is limited to individuals who are citizens or nationals of the United States as of the time of application and who have not completed postbaccalaureate study in excess of 12 semester hours. Preapplication forms are available in the Graduate School Office, room 3-136. Application deadline is November 26, 1980.



Despite the T's recent financial difficulties, work continues on the new Harvard subway terminal. (Photo by Rick Parker)

## When you need some notes at 3:00 a.m., you find out who your friends are.



You left the notes for chapter 6 in the library. A sure sign that tomorrow's test will be heavy with questions from chapter 6. Someone you know is about to get a phone call. He's not going to like it, but he's going to come through. When this is over, do something special for him. Tonight, let it be Löwenbräu.



## Löwenbräu. Here's to good friends.

© 1980 Beer brewed in U.S.A. by Miller Brewing Company, Milwaukee, Wisconsin

# sports

## Cross country prepares for Division III Nationals

By Bob Host

Coming off a fourth place finish in last weekend's qualifying meet, the cross country team prepares for the NCAA Division III championships tomorrow in Rochester, NY.

Six of the seven runners on coach Chris Lane's squad enjoyed personal best times in the qualifying meet, with only Bob Walmsley '84 missing a personal best, falling five seconds shy. Captain Pat Hamilton '81, who was injured last weekend, has recovered and is scheduled to compete Saturday. Replacing Hamilton last week was Ed Hurley '84.

The trio of Hamilton, Walmsley, and Colin Kerwin '82, which ran closely all season long, will probably compete for the best individual time on the team if past performances hold up. For Kerwin, the Nationals represent only the second race in which he will compete all season.

The team has prepared for the Nationals by lessening its emphasis on distance running in favor of running for speed. About two weeks ago, the team was training its hardest, according to Hamilton, but has been tapering off lately in an effort to get the improvement in speed.

In last year's Nationals, MIT placed 25th out of 29 teams. However, this year's squad, which has been described as the best cross country team MIT has had by some observers, will aim to improve on that mark. Although

individual runners such as Frank Richardson '77 may have been better, the team this year is strong enough to place in the upper half of the competition, one runner noted. He added that if Hamilton runs well and the team runs like it

did last week, there is a good chance of finishing between tenth and fifteenth in the team competition, which would be an improvement of at least ten places over last year.

### Attention Students:

We are looking for teppanyaki cooks (experience desired but will train), waitresses and hostesses for the new **Bisuteki Japanese Steak House**

opening soon in the Howard Johnson's Motor Lodge, 777 Memorial Drive, Cambridge.

Call Bill Sasanuma at 284-7200 after 3 p.m. or Gus Lopes at 492-7777 from 9 to 6 for an interview.

### ANTIQUE JARS

Warehouse sale  
Sun. Nov. 23, 11:30-3:30  
Hand blown, flint glass, scientific display jars with ground glass stoppers. Commissioned by Louis Agassiz for a Harvard Museum over a hundred years ago. Most jars are 50% off original prices.

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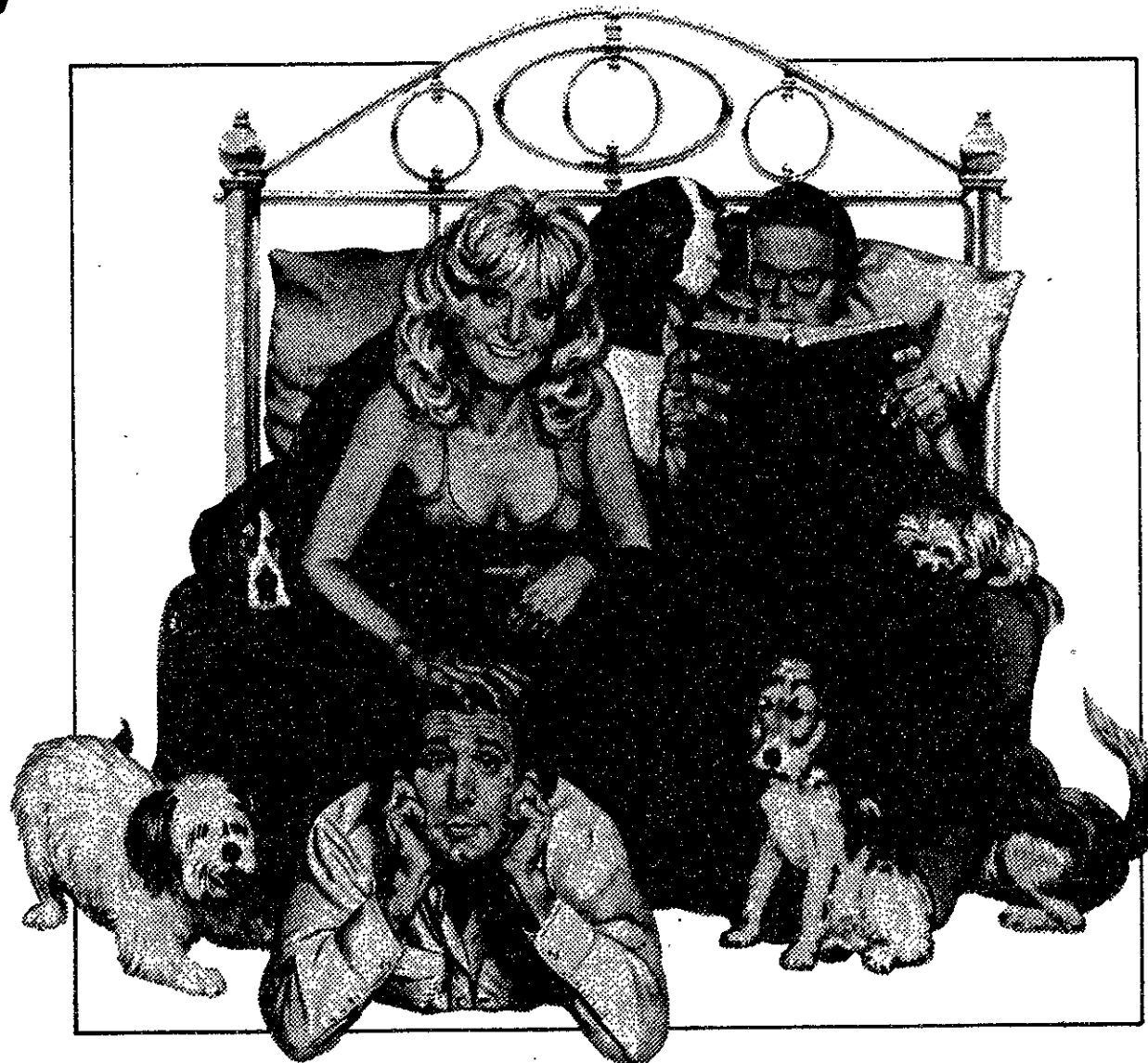
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Robert Nadeau - The Real Paper June 28 1980

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SOME MATERIAL MAY NOT BE SUITABLE FOR CHILDREN



## Coming This Christmas

