

Ken L. Church/The Tech  
Jeff Bates '90 takes a shot against Suffolk in Tuesday's game. MIT lost 6-5 in overtime. See story page 15.

## Giamatti to speak at commencement

By Thomas T. Huang

Boston native A. Bartlett Giamatti — scholar of medieval and Renaissance literature, former president of Yale University, and currently the president of baseball's National League — will deliver June's commencement address, according to Mary Lou Risley, Giamatti's executive secretary at the National League.

MIT's selection of a scholar who is outspoken on curriculum reform comes at a time when the Institute is pondering changes in its own science, engineering and humanities curricula.

As an Ivy League professor, Giamatti espoused epic poetry to packed classrooms and called for

a more traditional, structured college curriculum. He taught comparative literature at Yale for 12 years, from 1966 to 1978. Later, as president of Yale from 1978 to 1986, he headed an institution that had run into budget deficits in the early 1970s. He faced the prospect of cutting educational programs that had long made Yale prestigious.

And in June 1986, he surprised the academic world by accepting an offer to become the National League president, consummating a life-long love for baseball.

Described by MIT professors as a dramatic speaker and a teacher who had in the last two decades committed himself to undergraduate education, Giamatti is a "humanist committed to learning, rather than a managerial type," according to the 1978 edition of *Current Biography*.

Giamatti as a teacher favored a more structured curriculum with fewer optional courses, according to the biography. He said that the college curriculum should be revised to emphasize the fundamental areas of the liberal arts, and possibly with the reintroduction of required courses in science, the social sciences, and foreign languages.

He also supported an intensive freshman writing program, according to the biographical piece.

## Revised porn policy revealed

By Andrew L. Fish

The MIT Faculty Policy Committee has recommended what it called "limited changes" in the MIT Policy Statement on Sexually Explicit Films. The proposed policy would regulate sexually explicit films shown during Residence/Orientation Week and on Registration Day of either term. While films shown during this period would have to be approved by a screening committee, they could be shown in classrooms and lecture halls at any other time without regulation.

But the proposed policy also states that any sexually explicit film shown in a dormitory common area would have to be approved by the screening committee.

Under the current policy, such showings would be permitted except during R/O week and on Registration Day. Under the new policy, three weeks notice before a showing would be required.

Ironically, the FPC report was

prompted by the showing of a sexually-explicit film in East Campus' Taibot lounge last February. While it is unclear whether Taibot lounge would be considered a "common area" (it is a separate room and can be re-

*(Please turn to page 2)*

## Committee to examine future of living groups

By Andrew L. Fish

Associate Dean for Student Affairs James R. Tewhey warned Bexley Hall that it might become a single-sex living group for women unless it improves its fall rush procedures. The threat comes as a committee has begun to examine the long-term impact of the increase in the number of women on MIT's independent living group system.

Tewhey expressed serious concerns about the current way rush is organized — where students have three days to choose their living group — and hoped that a more "rational way" of housing students would be proposed. He also hoped the committee, which is specifically charged with reviewing the independent living group system, would address the lack of housing choices available to women and the "exclusion" of international and minority students from the ILG system.

Professor Robert S. Kennedy '59, the committee chair, said the committee will make long term recommendations "as to what the

Institute should be doing five or ten years into the future."

The committee will examine the affects of changing demographics on fraternities and on the residence system as a whole, Kennedy said.

The threat against Bexley by Tewhey is the second in three years to come from the Office of the Dean for Student Affairs. In

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Tech file photo  
Dean James R. Tewhey

## COD reviews charges against Penn, Fernandez

By Thomas T. Huang

Despite the absence of the defendants, the Committee on Discipline yesterday heard the case of Stephen P. Fernandez '88 and Steven D. Penn G — two students charged with "disturbing a school assembly." They had, along with several dozen other protesters, disrupted last June's commencement by blowing whistles during the address of President Paul E. Gray '54.

Fernandez refused to show up,

and Penn walked out half-an-hour into the hearing after he was not allowed to present a "pre-trial" motion to dismiss the case on grounds that a Massachusetts court had already tried the students last summer.

Paul C. Joss, committee chairman and professor of physics, will send the two students letters today detailing the COD's decision on whether or not the Institute will punish them for their actions, according to Jong-On Hahn G, student committee member.

She and other student members refused last night to reveal the committee's decision. If the two students are punished, they will face penalties ranging from reprimand to expulsion, Penn said.

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## Year-round student lounge is proposed

By Gaurav Rewari

Plans are underway to make Cafe 13, the student lounge, a year-long endeavor. Originally started last Independent Activities Period as a month-long experiment and then repeated this IAP, Cafe 13 has proven itself to be a success, according to Undergraduate Association President Manuel Rodriguez '89.

This success has prompted MIT to consider making it a permanent part of the Infinite Corridor. Senior Vice President William R. Dickson '56 underscored the importance of such a proposal. A cafe in the Infinite Corridor would foster greater interaction between students and faculty, he said. It would also provide them with a convenient place to have a

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## Robbers steal computer from AFROTC office

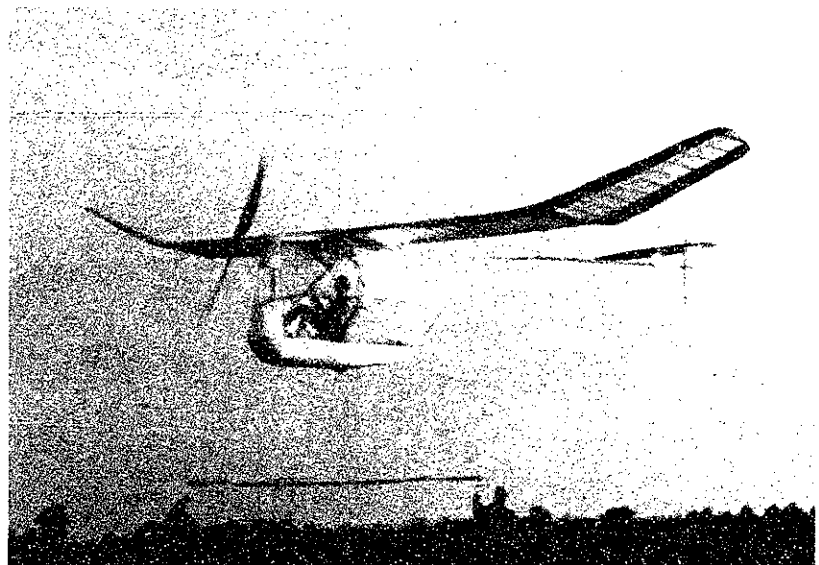
By Thomas T. Huang

Nearly \$2500 in computer equipment was stolen from the Air Force ROTC offices at MIT last weekend, according to AFROTC group commander Mark E. McDowell '88. The equipment included a hard disk containing personnel and financial records.

Between 10 pm on Saturday and 8 am on Sunday, an intruder or group of intruders stole the AFROTC's \$1600 Macintosh Plus personal computer, \$400 hard disk, and \$400 printer. They had broken into the cadet headquarters and lounge in Building 20 by deciphering two locks that had the same five-digit code.

Despite taking a \$100 portable stereo as well, the intruders seem to have targeted the computer equipment in their late night raid, as they left untouched a videocassette recorder, an electric

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Steve. Finberg/Technique  
The MIT human-powered aircraft, Daedalus, was damaged in an accident during a test flight last week at Edwards Air Force Base in California.

"The question of writing is crucial," Giamatti said in a Dec. 25, 1977, interview with the *New York Times*. "It is the fundamental pedagogical problem in American education at all levels: How do you get people to write clearly and in an organized fashion? That means nothing other than how do you get them to think clearly."

Moreover, he "often spoke out against the vogue for unmarked or pass-fail courses, explaining that 'students are owed a sense that the faculty knows what is important, which means setting reasonable demands and holding to them,'" the biographical piece

*(Please turn to page 2)*



R. M. Smith/Yale University  
Angelo Bartlett Giamatti,  
National League president

## Human-powered aircraft damaged in accident

By Niraj S. Desai

*Daedalus*, the MIT human-powered aircraft, suffered some minor damages in an accident during a training flight at Edwards Air Force Base in California on Feb. 7, according to Margaret Scott, Project *Daedalus*' director of external affairs.

Scott did not know the precise cause of the accident. But Professor Steven R. Bussolari SM '83

speculated in a press release that the accident might have been caused by atmospheric turbulence due, in part, to solar heating of the lakebed where the testing is conducted.

The 70-pound, pedal-driven *Daedalus*, flying at approximately 15 feet, rolled into a right turn and descended, contacting the ground with its right wingtip, according to Project Director John S. Langford '79 in a press release.

The accident damaged the center wing panel and the fuselage, Scott said. She believed the accident would only delay the project by two weeks.

*Daedalus* is scheduled to recreate the flight of the Greek mythological character Daedalus between the Greek islands of Crete and Santorini — 69 miles — sometime after the beginning of April. The exact date depends on when weather conditions are optimal, Scott said. The *Daedalus* team will leave for Crete on Mar. 23.

Before leaving for Greece, testing will continue at Edwards AFB with a duplicate plane now being constructed at Concord, MA. The backup plane will be sent to California on Wednesday,

# Committee proposes revised pornography policy

(Continued from page 1)

served by individual residents), what started off as a protest may have actually stiffened the original policy. Certainly one provision which was violated by Adam L. Deshowitz '89 last year (showing the film on Registration Day) remains intact.

The revision revokes some provisions of the current policy, which requires all sexually explicit films to be screened and said that unapproved films could never be shown in Kresge auditorium. But it does maintain key provisions of the existing rules, which the MIT Committee on Discipline called "an excessive restraint on freedom of expression" last November.

The COD asked the FPC to examine the pornography policy after the November ruling. Although the COD urged the "MIT

community to engage in a renewed vigorous debate" on the concerns that led to the formation of the policy, the FPC opted, by its own admission, not to "conduct community-wide hearings or consultations." It acknowledged that its recommendations reflected "the considered views of selected faculty representatives, but not necessarily the perspective that would emerge from a far more systematic sampling of Institute-wide opinion."

The FPC recommended the tougher restrictions on dormitories because of concern about "the right to privacy of those students who are hurt or offended" by the showing of sexually explicit films in their living group. In addition, the FPC expressed concern about the "locker-room" atmosphere at MIT which it said "is at odds with MIT's education

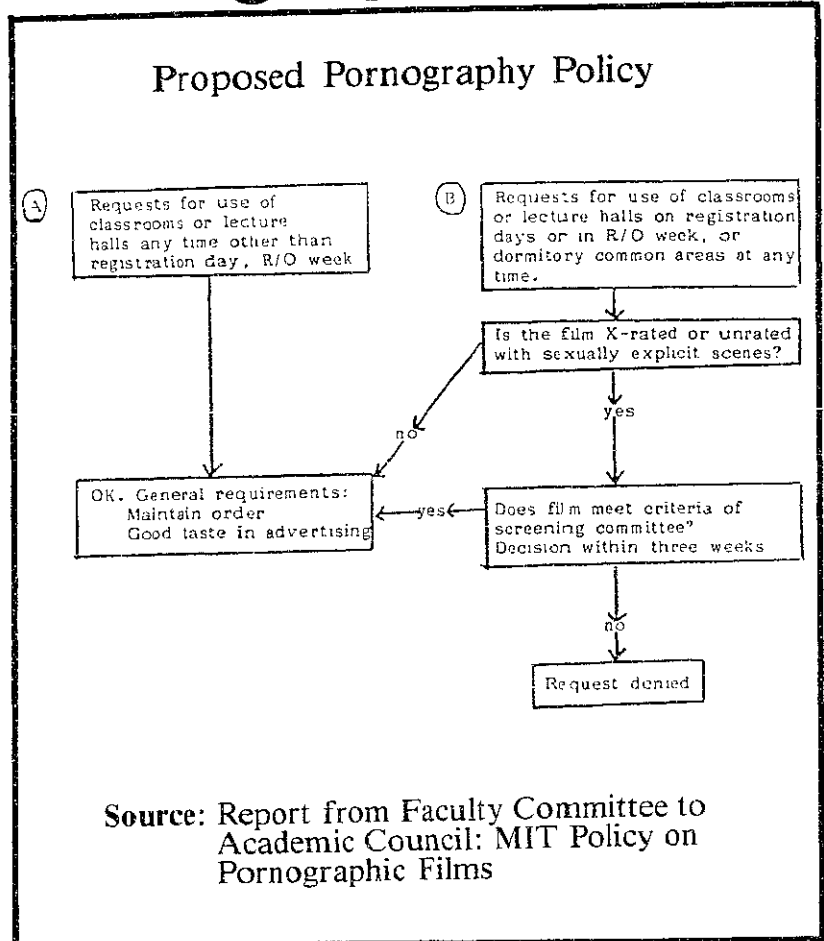
purpose." It also noted that MIT was now making significant efforts to attract women and should provide a "suitable educational atmosphere" for them.

The actual effects of the regulations would be minimal, according to the FPC. The policy could "serve as a legal test of a private university's right to act according to a different set of standards than the Constitution and of public universities" if challenged in court.

The FPC endorsed the current composition of the screening committee — three undergraduate students, three graduate students, three faculty members, and three staff members. The entire screening committee is selected by the Office of the Dean for Student Affairs, with the students being drawn from a list of nominees provided by student nominations committees.

But the FPC said the original justification for banning movies from Kresge — its proximity to women's residence halls — was less justifiable now because "women live in houses at many different locations." Also, it felt three weeks notice was more reasonable than the previous six required.

It said showing pornography during an orientation period or on Registration Day because it



Source: Report from Faculty Committee to Academic Council: MIT Policy on Pornographic Films

## Former Yale president to speak at graduation

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stated.

Travis R. Merritt, head of the Undergraduate Academic Support Office and professor of literature, called Giamatti a "reputable scholar and entertaining speaker."

David Thorburn, a professor of literature at MIT who was a colleague of Giamatti at Yale, remembers him as a man for whom "art was the embodiment of release — an expression of energy — kept under control." Giamatti saw this quality in such seemingly disparate subjects as the flowing verses of poet Ludovico Ariosto and the throwing arm of pitcher Tom Seaver. For Giamatti, "Renaissance literature had an enormous imaginative power, but it was also coherent and channeled," Thorburn said.

In his doctoral work, Giamatti had written on the disappearance of the "blessed place" in Western literature — "the desire for a state of repose and life eternal [that] has always haunted mankind."

But whether or not Giamatti speaks about poetry or baseball, it is likely he will address the role of an undergraduate education in modern times. Two years ago President Paul E. Gray '54 had invited Giamatti to speak at MIT for a colloquium on education. Giamatti's talk would have been labeled "Why You Should Have Gone to Yale" — intended to generate discussion about technical and liberal arts educations. Giamatti declined the invitation due to time constraints.

Giamatti was born in Boston on April 4, 1938, and grew up in South Hadley, MA. Studying at Yale, he received his BA in 1960 and his PhD in comparative literature in 1964. He taught Italian literature at Princeton University for two years before becoming assistant professor at Yale's English department. He rose rapidly in the ranks and received tenure in 1971. From 1975 to 1978, he acted as director of the division of humanities. Married for 28 years, he and his wife have three children.

would "have a disproportionate impact in setting a tone for the school year and the entering class."

The FPC recommended that screening meetings be open to the public for discussion and that

MIT sponsor an educational event on pornography annually.

The policy will be introduced at next Wednesday's faculty meeting and then sent to the Academic Council for approval.

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# news roundup

from the associated press wire

## World

### US presents Palestine peace plan

US envoy Richard Murphy has presented Israeli leaders with a peace plan that calls for Palestinian elections in the occupied territories and the removal of Israeli troops from Arab cities. An Israeli source said Foreign Minister Shimon Peres told Murphy he had "no substantial reservations" about the plan. The Palestinian death toll in more than two months of protests against Israeli rule is now at least 52.

### Meese might close PLO office

Diplomats at the United Nations are expressing surprise at a report Wednesday that Attorney General Edwin P. Meese will close the Palestinian Liberation Organization's observer mission to the United Nations. Sources say Meese has concluded that legislation adopted by Congress last December to close the mission should be binding on him. The State Department has expressed reservations about the move.

### Bangladesh riots kill 80

It is feared that as many as 80 people were killed and 2000 others injured in a spree of election-day violence on Wednesday in Bangladesh. Much of the trouble is blamed on supporters of rival candidates for local offices. But the government said some people were killed by police who fired their guns to scatter mobs.

### Vietnam says it will free 1000

Vietnam said yesterday that it is freeing 1000 former South Vietnam officials who have been imprisoned for years in "re-education" camps. The former government officials are part of 9000 prisoners being freed or having their terms reduced. Vietnam's gesture comes while it celebrates the 20th anniversary of the Tet offensive — the military operation that turned the tide of the war.

### South African Army reinstates homeland president

South African forces entered the tribal homeland of Bophuthatswana on Wednesday and restored its president to power. Hours after he was ousted in an Army coup, the President appeared on television to announce he was back in control "thanks to the South African Army." Bophuthatswana is one of four nominally independent black homelands inside South Africa.

### State Department says democracy not part of glasnost

The State Department came out Wednesday with its annual human rights report card. It concluded that, despite glasnost, there has been no "dawn of democracy" in the Soviet Union. The report acknowledged that Soviet citizens were granted greater freedom last year and said the government was more tolerant of dissent. But it also said the KGB is still an all-powerful organ of repression.

### Soviets to cut mentally ill rolls

Soviet psychiatrists say they expect to remove two million people from the government's list of mental patients. The Soviets are responding to long-standing criticism that poor psychiatric evaluations are often used against enemies of the state. One Leningrad doctor said such mistakes will not be repeated.

### Sphinx in danger of crumbling

One of the best known monuments in the world is crumbling. The Sphinx in Egypt has lost a chunk of limestone and authorities say if it isn't treated its entire right shoulder will collapse. The 4600-year-old artifact has already lost its nose.

## Nation

### Reagan calls for Mars mission

President Reagan unveiled an ambitious and expensive plan yesterday to rejuvenate the US space program. It includes proposals for a permanent shuttle station, a large unmanned rocket, beefed-up space shuttle capabilities and development of technology for sending people back to the Moon and to Mars. The program would add more than \$2 billion to next year's NASA budget.

### Shuttle test termed successful

National Aeronautics and Space Administration engineers are continuing their effort to get the space shuttle flying again. They tested a new design for the rocket booster yesterday to see if it will prevent a problem like the one that destroyed the *Challenger* two years ago. Engineers called the test "100 percent successful."

### Former Reagan aide convicted

President Reagan's former political director, Lyn Nofziger, was found guilty yesterday of illegally lobbying top White House aides. Nofziger was convicted of asking Edwin P. Meese, then presidential counselor, in 1982 to help secure a no-bid Army contract for a company Nofziger represented. Nofziger is the first former high government convicted under the provisions of the 1978 Ethics of Government Act. He could receive a maximum of six years in jail when sentenced next month.

### Officials warned against aiding rebels

Reagan Administration officials are being told not to participate in private fund-raising for the Nicaraguan rebels. White House spokesman Marlin Fitzwater said the order is an effort to avoid a repeat of the behind-the-scenes administration involvement in fund-raising that was discovered during the Iran-*contra* investigation.

Rubes®

By Leigh Rubin



### Iran-*contra* criminal charges likely

The independent counsel investigating the Iran-*contra* affair gave a strong indication on Wednesday that he is going to bring criminal charges in the case. Lawrence Walsh said he has hired a former federal judge to represent the investigation in any court challenges that might be filed on behalf of witnesses who were granted limited immunity by Congress.

### Court strikes down Army ban on homosexuals

Speaking on behalf of the US Army, the Justice Department said Wednesday there has been no decision yet on whether to appeal a federal court decision in San Francisco striking down the Army's ban on homosexuals. The Army contends homosexuals are barred to preserve morale and discipline. The appeals court ruled that in doing so, the Army was catering to private biases and denying homosexuals their constitutional rights.

### Bush accused of warning Castro of Grenada invasion

A spokesman for Vice President George Bush denied a "total fabrication" testimony that Bush indirectly warned Cuban leader Fidel Castro in 1983 that the United States was about to invade Grenada. A former Panamanian official, Jose Bandon, testified on Capitol Hill Wednesday that Bush used Panama's military ruler, Manuel Noriega, to convey the warning.

### Senate hearing on Noriega continues

A Senate panel yesterday heard more testimony against Panamanian military leader Manuel Noriega. An imprisoned accountant told of a huge Colombian drug cartel that made profits in the United States, laundered the cash through Panamanian banks, and used some of the money to bankroll the Nicaraguan rebels. The witness also said Noriega made available intelligence information on US drug interdiction efforts, including the identities of drug agents.

### Howard Beach defendant sentenced

A New York judge yesterday sentenced the third defendant found guilty of a racial killing in Howard Beach. Jason Ladone was sentenced to five to 15 years for manslaughter and assault. The sentence is the shortest of those handed down against three white teenagers.

### Cuomo meets with assault victim

New York Gov. Mario M. Cuomo met yesterday with representatives of a black teenager who says she was repeatedly assaulted by six white men. The woman so far has refused to cooperate with a special state prosecutor. Actor Bill Cosby and the publisher of *Essence* magazine have offered a \$25,000 reward for information leading to the arrest of the attackers.

### Robertson objects to evangelist label

Republican presidential candidate Pat Robertson doesn't want to be referred to as a former TV evangelist. He calls that term "a bigoted slur." The former fundamentalist Christian minister who founded the Christian Broadcasting Network and hosted its TV talk show for years says he was a religious broadcaster, not an evangelist. Robertson is campaigning in New Hampshire, following his second place finish in Iowa.

### Railroad drug testing voided

A federal appeals court in San Francisco has struck down drug and alcohol testing for railroad workers involved in major accidents or rule violations. The court said yesterday that the tests are unconstitutional because they are done without evidence that a worker was under the influence of drugs or alcohol.

### Gray sees little progress on deficit

The chairman of the House Budget Committee does not expect any further actions by Washington to reduce the deficit during the remainder of the Reagan Administration. Rep. William Gray III (D-PA), speaking at a London seminar on Wednesday, added, however, that if the US economy is in a significant downturn when the new administration takes over, then further progress on the deficit could be delayed indefinitely.

### Banks warned securities business

A report by the General Accounting Office is cautioning banks to move slowly into the securities business. It says Congress should grant banks new powers to sell and underwrite securities gradually rather than abruptly toppling the barriers between commercial and investment banking. The report also raised the possibility of extending a moratorium on new banking activities beyond its March 1 expiration date.

## Weather

### Stormy weather ahead

Thursday night a low pressure center was moving through the Ohio Valley while a second low center was developing east of the South Carolina coast. The first low will be weakening this morning as the second moves to the north along the coast. Heavier precipitation in the form of wet snow should arrive by mid morning, making late morning and early afternoon travel hazardous. As the low works its way into Southern New England, warmer ocean air will move the rain/snow line westward away from the coast. It is expected that areas well north and west of the Cambridge area will escape this change over to rain and could easily receive a foot or more of snow. Areas that do change over to rain may experience some flooding as the rain will fall quite heavily during the afternoon. As always stay tuned to local media to keep abreast of any changes.

**Today:** Snow — becoming heavy at times during the morning. Several inches are possible before the precipitation mixes with and then changes to rain. Winds from the east at 15-35 mph. High 33-38° (0-3°C)

**Tonight:** Rain changing back to snow from southwest to northeast before ending late. Winds west-southwest 15-25 mph. Temperatures steady or slowly falling.

**Saturday:** Variably cloudy, windy, and cold with a flurry possible. High 33° (0°C). Low 10-15° (-12 to -9°C).

**Sunday:** Partly sunny and cold. High 28-33° (-2 to 0°C). Low 15° (-9°C).

Forecast by Michael C. Morgan

Compiled by Niraj S. Desai

# opinion

## Editorial

### Revised policy equally flawed

The Faculty Policy Committee last week proposed revisions to the MIT Policy Statement on Sexually Explicit Films. These revisions extend into the dormitories the censorship of the original policy and fail to address any of the concerns that the MIT Committee on Discipline had last November.

While the revised policy would allow the presentation in Kresge auditorium of films not approved by a Dean's Office screening committee, it retains the major provisions of the original policy — restricting the times when certain materials may be presented on the MIT campus.

In addition, the new policy places rules on living groups stricter than those under the previous policy. These regulations comprise an even harsher infringement on students' rights.

The guidelines are based on the assumption that a screening committee can enumerate what is and what is not "offensive." But no one can judge the relative offensiveness of different materials to different people. While some find pornography offensive, others are repulsed by films containing violence or bigotry.

The proposed restrictions on the dormitory system are unnecessary. Certainly, no one should be forced to view something he or she deems objectionable. But as with numerous other difficulties that frequently emerge in a living group environment (such as noise complaints or open use of illegal drugs), the issue should be resolved among members of the group. If an impasse is reached, and a student feels that he or she is being forced to watch objectionable material in a common area of the living group, the student can bring harassment charges within an already established set of guidelines.

In making its revisions, the FPC has neglected the claims that brought the COD to question the policy in the first place: that the policy constituted an "excessive restraint on freedom of expression at MIT" and that it was "inappropriate." The COD asked that the MIT community renew debate on the concerns that led to the formulation of the original policy, yet the FPC has declared that it does "not intend to organize hearings or special meetings."

The Tech recognizes the FPC's concern over MIT's "locker-room" atmosphere, and agrees that it must be altered. But censorship should never be the method used to change attitudes. An increased and invigorated debate on the issues would be far more productive and would help teach MIT students about the benefits of a free and open society.



Column/K. J. Saeger

### Robertson is a legitimate force

He is not a joke. He is not a fluke. He is also not a heretic, a charlatan, or a snake oil salesman. He is not, unfortunately, Robert Bork with a Bible. He is simply Pat Robertson, a former Christian broadcaster and the second place finisher in the Iowa caucuses.

Robertson is a legitimate political force to be dealt with in 1988 and beyond. Robertson's campaign to date has gone exceedingly well for a newcomer to the political process. The equivalent of a palace coup was required to keep Robertson from winning in the Rube Goldbergian Michigan delegate selection process, and he managed to win a nonbinding straw vote that accompanied the selection of delegates in Hawaii. Clearly, this Iowa outcome is not a solitary event.

Why then is the media (and perhaps some members of the GOP) treating Robertson as though he was a cross between Jethro from the Beverly Hillbillies and Torquemada? If the media can even laughingly be called "fair," then the reason cannot be because he was once Rev. Robertson. The Democrats have a clerical candidate who is given coverage which does not center on his religious beliefs. Robertson has tried to distance himself from his former ministry and has even relinquished his ordination, something which the Rev. Jesse Jackson has not done.

I believe that the negative conception of Robertson stems from fear. The fear of Pat Robertson is the fear of the unknown. He is a geologist who has found a very important untapped resource, a resource that may or may not be controllable. This potentially overpowering resource is the newly discovered voting power of the fundamentalist Christians. Until now, Evangelicals in the United States have been largely disenfranchised from the political scene. This oversight may prove to be very costly.

The quest for constituencies heretofore was the same in nearly every election. Politicos first began catering to such groups as organized labor and farmers, then the process seemed to mean-

der until even the Homosexual Eskimos for Saving Tofu Eating Whales had a place on some candidates' platform. However, what has now become Robertson's "secret army" remained neglected. This previously politically quiet group was simply taken for granted or, even worse, was ignored.

Robertson has awakened the sleeping giant Gulliver. While sleeping, the special interest Lilliputians were able to bind him with their sundry concerns. But now awake, alert, and on the move, Gulliver can no longer be ignored. Some of his wants will need to be satisfied and he must be given a say in determining the political agenda.

These developments may prove to be very beneficial to the Republican Party. Robertson is incorporating a group into the GOP whose power cannot be measured in numbers alone. These people are now doing what the average American never even considers; they are voting conscientiously. As phrased by the mass media, this group is in search of morality in government, I think a better word would be normalcy. If the party accepts this group, and addresses some of its concerns, there is no way for the Republicans to lose the presidency in 1988.

*K.J. Saeger, a graduate student in the department of aeronautics and astronautics, is a columnist for The Tech.*

Column/Mark E. McDowell

### Flash your Rat when making a power play

It's almost time for the big power play. Are you ready?

If you're a senior looking for full-time work after graduation, or an inspired underclassman interested in a summer position, you should be planning your power play. How will you dazzle the company of your dreams? You need a power play, of course. Here are a few tips to think about when you plan your strategy:

**Don't eat the powdered doughnuts.** They've been put there on purpose. Don't fool yourself. If you're wearing anything darker than a traditional wedding gown, you'll also wear that doughnut all day.

**Do wear your Brass Rat** if you have one. However, do not wear anything else as gaudy. If you're wearing costume jewelry or gypsy ornaments, they will only detract from the beauty and glamour of the Rat on your hand. Also, show people your ring. Many MIT students have received job offers while pensively rubbing their chins.

**Don't brag about MIT** too much. But don't be embarrassed to mention that you go there. Be very careful when discussing universities. If an interviewer men-

tions his or her alma mater, there are a few things you should not say. For example, do not say: "Hmmm. Where is that?" Even worse, do not say: "Oh yeah, I got lots of junk mail from them." Naturally, these rules do not apply when your interviewer is a graduate of the H-school or any of several institutions in California.

**Do remember your 8.01** when they ask you tough questions. If you get a question that you just can't handle, ask: "Is it okay to ignore relativistic effects?" If they get wise to you, try: "Were you asking about a particle or a system?"

**Don't acknowledge that you're typical** of the students at MIT. No one considers themselves typical around here anyway. But we do have a stereotype to live up to. It may be wise to memorize pi to fifty digits or so, just in case. Let's try to maintain the mystique.

Plan your power play early. A few heuristics will come in handy when the necktie chokes or the mascara runs. Best luck!

*Mark E. McDowell, a senior in electrical engineering and computer science, is a contributor to the opinion pages of The Tech.*

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# opinion

## feedback

### Reductionism reflects bias of science

To the Editor:

Reverberating through every panel discussion and workshop at the recent MIT/McGill Student Pugwash conference was the theme that science is not a value-free enterprise but is inherently biased. This bias is gender and culture based and springs partially from the history of modern science. Consequently, the approach we take to formulating the questions we ask is generally rooted in a reductionistic view of the world.

Historically, Western science was a gentlemanly pursuit carried out by white males of independent means. Men like Bacon and Descartes advocated a world view in which man subjugated nature, reason triumphed over emotion, and rationality, objectivity and detachment were the order of the day. Instead of treating nature as a unified whole of which man was a part, Cartesian rationalism saw man as master and possessor of nature.

Since then, science has viewed man and nature as separate entities. This detachment is manifested in controlled experiments where one strips away the extraneous to try and understand the "essential." People interpret this to mean that science is "objective" and "value-free." We are not asserting that this is the sole historical determinant of our definition of science. However, to see how influential this "Western male" conception has been on our view of modern science, compare good (hard) science with good (real) men. Both are characterized as unemotional, rational, and detached. Since this method of inquiry is culture and gender biased, it is hardly surprising that women and non-Western cultures have had little influence on modern scientific progress.

In light of the bias, consider the reductionistic manner in which we approach a problem. Reductionism works by breaking down a large messy problem apart into smaller more manageable sections. If we can't figure how a thought is processed, we ask how a brain works. If we can't understand how the human brain functions, we ask how one part of it does. Little by little, we reduce the problem to the firing of a single neuron. From this, we imply that the brain functions by the simultaneous firing of many neurons. We have no idea how it is all interconnected in constructing a human thought, let alone all the thinking (of two people) that goes into an article of this length. Nonetheless, we dig deeper and deeper for the "the one solution" from which all else follows.

This linear, reductionistic

thinking influences how we view the world and how we choose to formulate the problems we work on. Consider our approach to pest management in agriculture. Leaving aside the social and economic influences, let us examine how we formulate a solution to the problem. By sterilizing a field with a pesticide, we kill the entire insect population to wipe out the one percent we call "pests." This aggressive strategy is likened to the use of a neutron bomb to eliminate all the criminals on the streets of New York to the detriment of the honest citizens.

Alternative and possibly better solutions, such as breeding more insect-resistant plants or attracting predatory insects are not emphasized. The nature of agribusiness and the requirement to formulate the problem in terms of pest eradication has defined our solution.

Physics has realized the limits of reductionism. Consider the debates about the nature of light early in the 20th century. The community of physicists who regarded light as a particle pitted itself against those who believed in the wave theory. This wave-particle controversy was solved with Bohr's principle of complementarity which embraces both "wave-like" and "particle-like" properties. Quantum physics did not progress until we were able to accept a paradigm shift from "only one possible solution" to "fully equivalent but alternative points of view." However, "fully equivalent and alternative points of view" are hardly acceptable in other realms of science. Instead, we passionately pursue singular answers.

We are trained to seek answers by reducing complex systems into working models. The implicit assumption is that once we get to the bottom of it all, we can reconstruct the world from its parts. The first problem is that the world is not simply the sum of its parts. If it were, one could analyze a headache as simply a sign of aspirin deficiency.

The second problem is we rarely do enough reconstruction. Science suffers from too much reductionism and not enough synthesis. We need a better balance between the two. Yet we have constructed our scientific institutions with a massive emphasis on the reductionistic aspects of the problem. One MIT biology graduate was once heard to say, "I could easily have left MIT convinced that nothing existed larger than the cell."

To paraphrase Einstein, "rational thinking does not suffice to solve the problems of our social life. . . . We need a new way of thinking." We cannot afford to cling to notions of an "objective" and "value-free" science. Just as the Theory of Relativity destroyed the need for an absolute frame of reference, so it is that scientists must realize they are not detached observers, and that science is not ethically neutral.

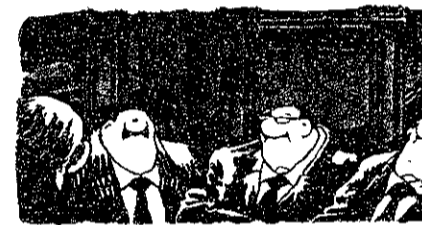
What questions we ask and how we ask them are rooted in society and our world views. We can never escape from that fact. By explicitly acknowledging this and embracing a relational point of view alongside the reductionistic, we acknowledge that alternative points of view are valid. We can then shift thinking from pesticide development to ecologically sound pest management, from invasive bypass surgery to preventive medicine and from conflict studies to peace creation.

The world is an ever-shrinking and increasingly interconnected global village. Global problems cannot be solved by narrow thinking. In training scientists and engineers for the 21st century, universities must accept the challenge to go beyond problem solving and educate people who can find solutions that take into account environmental, social and technological concerns. Science may have limits, but they are further restricted by our reductionistic thinking.

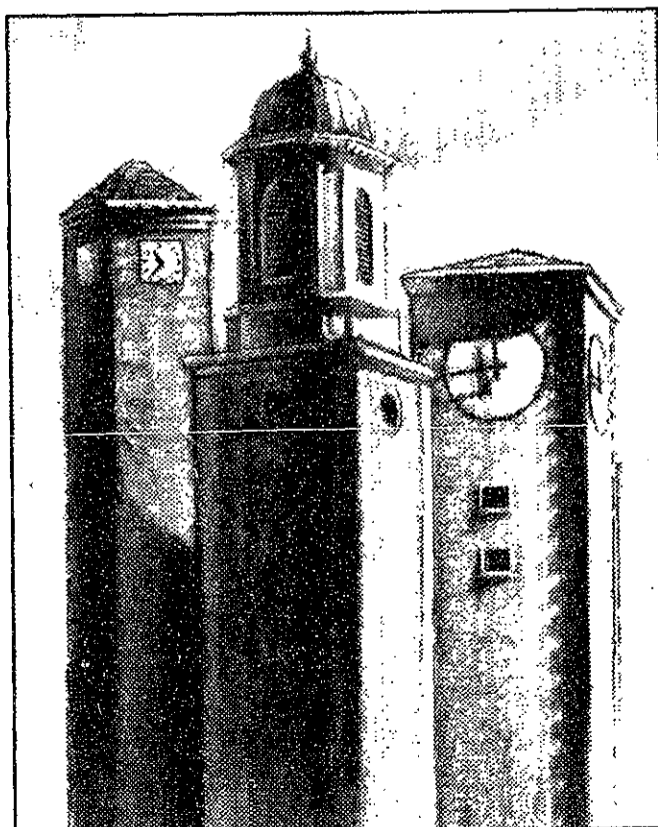
Peter B. Cebon G  
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MIT Student Pugwash



Meanwhile in the Kremlin, the debate rages on.



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# Fraternity committee formed

(Continued from page 1)

the fall of 1985 then-Associate Dean Robert A. Sherwood suggested that Bexley could be used to house the Alpha Phi sorority.

The ODSA's displeasure with Bexley stems from the dormitory's inability to attract freshman residents. Even though the dormitory housing system is overcrowded every year, Bexley has difficulty even filling its rooms. Tewhey said the present situation could not continue.

While the Dean's Office attributes this to an "anti-rush" on the part of Bexley, residents argue that their problems stem from the negative comments of other MIT students.

As women make up a greater percentage of the MIT student body, the ODSA finds itself "scrambling to find women's spaces," Tewhey said. There simply are not enough rooms available for women — 62 percent of crowded rooms contained women even though they made up only 35 percent of the freshman class, he said.

Tewhey had no doubt he could fill another 120 rooms if Bexley

were set aside for women, but emphasized that Bexley would only be changed as a last resort.

It is this problem with changing demographics that led to the formation of the ILG committee. This past year ILGs found themselves 10 percent below their rush week goals for residents. The charge to the committee attributed this, in part, to the steady increase in the number of women at MIT.

The committee was also asked to address the difficulties fraternities were facing in their neighborhoods. The charge to the committee noted that the number of complaints against fraternities in 1985-86 and 1986-87 were 67 and 63 respectively. The charge noted that there has been ongoing concerns that a fraternity might be forced to close because of these complaints.

The charge said that the committee should also consider the fraternities' role at MIT, specifically noting that some universities had opted to eliminate or reduce the role of fraternities in their residential systems.

Kennedy said it was conceiv-

able that the all-male fraternities could all continue to exist, but suggested that they might have to broaden their appeal. He concurred with Tewhey that certain groups were excluded, saying that fraternity members tend to be Northern Europeans.

It would not be feasible to abolish the fraternity system, according to Tewhey, as there would then not be enough room to house students. He added that the Institute has limited powers over the ILGs, which are independently owned.

Kennedy said the committee was interested in getting student input, and would probably hold open meetings in the future.

# COD hears "whistle-blowing" case

(Continued from page 1)

"It's like *The Trial* by Kafka," Fernandez said of the COD procedures. "They never say what the court process is. And they never say what [the defendant is] being tried for."

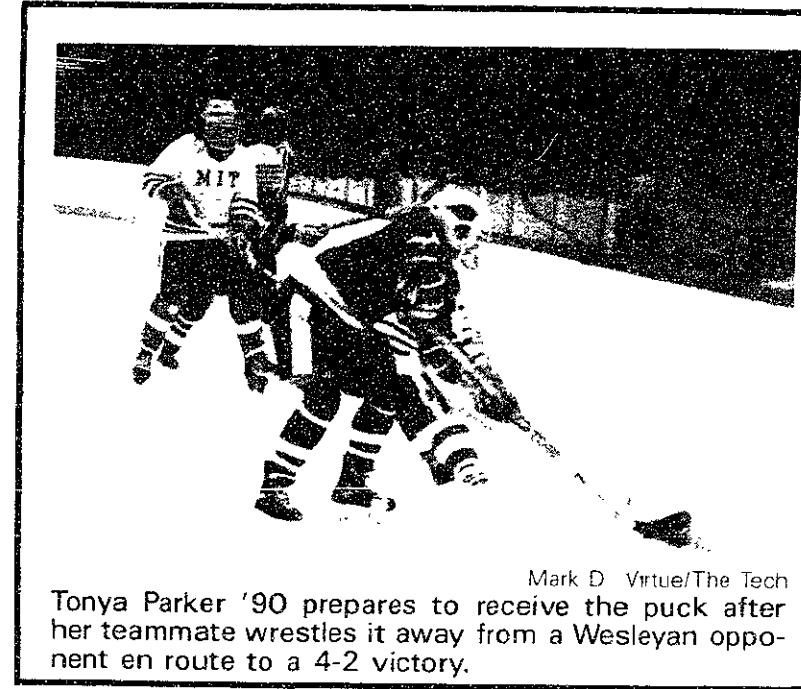
A student at MIT off-and-on for almost six years, Fernandez said that he has completed all his credit requirements, as well as his thesis. He claimed that Arnold R. Henderson, assistant dean for student affairs and a liaison between the students and the COD, told him in an informational meeting before the hearing that Fernandez's bachelor's degree might be held up as a form of

# Craft damaged in Feb. 7 test flight accident

(Continued from page 1)

made up primarily of MIT students, faculty, and alumni. "The project is primarily a hands-on learning and educational experience," Langford said in the release.

A number of sponsors fund the project — the largest being United Technologies Corporation which pledged \$430,000 last September.



Mark D. Virtue/The Tech  
Tonya Parker '90 prepares to receive the puck after her teammate wrestles it away from a Wesleyan opponent en route to a 4-2 victory.

punishment. Henderson could not be reached for comment.

Meanwhile, the two students argued in statements to the COD that, because they had already been tried for the whistle-blowing incident in Middlesex County Court last August, the Institute was placing them in "double jeopardy" by "trying" them again.

At that time last summer, the judge, the assistant district attorney, the defense attorney and Sgt. Edward D. McNulty of MIT had met during a July 28 pre-trial hearing and had agreed to dismiss the case and have the students pay \$50 in court costs. The students had accepted this proposal.

"The COD, because it would in this case rule on a violation of Commonwealth law and the limitations of free speech, and because it could enact punishment for this violation, would be an extralegal body that would be trying the defendant for a second time," Penn wrote in his statement.

Fernandez and Penn claimed that the MIT administration had singled them out, as the MIT

Campus Police had pressed charges against only them, several days after the incident, even though roughly 50 people had participated in the protest.

Fernandez also alleged that he had been targeted "because I am a Latino activist. . . . Throughout the period preceding and during the trial, the Campus Police offered to make deals, such as probation or a continuance without finding, with Steve [Penn] and not with me."

In filing charges against Fernandez and Penn on Dec. 14, Campus Police Chief Anne P. Glavin wrote: "At the time [Fernandez] was first observed, he was in a struggle with commencement guests who were attempting to silence him. . . . [Penn] continued his whistle blowing until his attention was diverted to a fight which broke out some ten minutes later."

The two had been demonstrating for a variety of issues, including investment from South Africa, increased minority enrollment, pensions for MIT food service workers, and proper use of the Simplex land owned by MIT.

# Robbers steal computer from AFROTC office

(Continued from page 1)

typewriter, and a number of filing cabinets.

A cadet left the offices late Saturday night, and he claimed that he locked the doors. At about 8 am the next morning, a second cadet found the doors open but did not report any theft, because he believed that somebody had simply borrowed the equipment. Finally, at about 9:30 am, a third cadet reported the theft to McDowell, who in turn reported the incident to the MIT Campus Police.

"The theft is a major setback to Air Force ROTC," McDowell said. "We rely on the computer for a great deal of our planning and training."

The hard disk held informa-

tion on 158 cadets, including their ranks, duty descriptions, and addresses and telephone numbers at school and at home. Files on disk also contained budget reports, completed job evaluation forms, and completed forms for absence, reimbursement, and job requests.

McDowell said that AFROTC has no plans to buy a new computer. It will take about half a semester for cadets to re-establish their records.

Meanwhile, the two locks — changed last Sunday — now have different ciphers, McDowell said. As for beefing up security, McDowell said that AFROTC members are considering posting a guard at the offices and adding bolt locks to the doors.

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Special Thanks to: Eric Shukan, David Lively, Ed Lee, TDC, MacGregor House, Lisa Shane, Mike Ho, Paul Beckmann, Albert Tam, Evan Sherbrooke, Julian West, MIT Table Tennis Club, MIT Chess Club, MIT Bowling Club, and all the College Bowl Moderators

## Derek Jacobi presents a finely crafted character study

### BREAKING THE CODE

By Hugh Whitmore.  
Directed by Clifford Williams.  
Starring Derek Jacobi.  
At the Neil Simon Theatre  
New York.

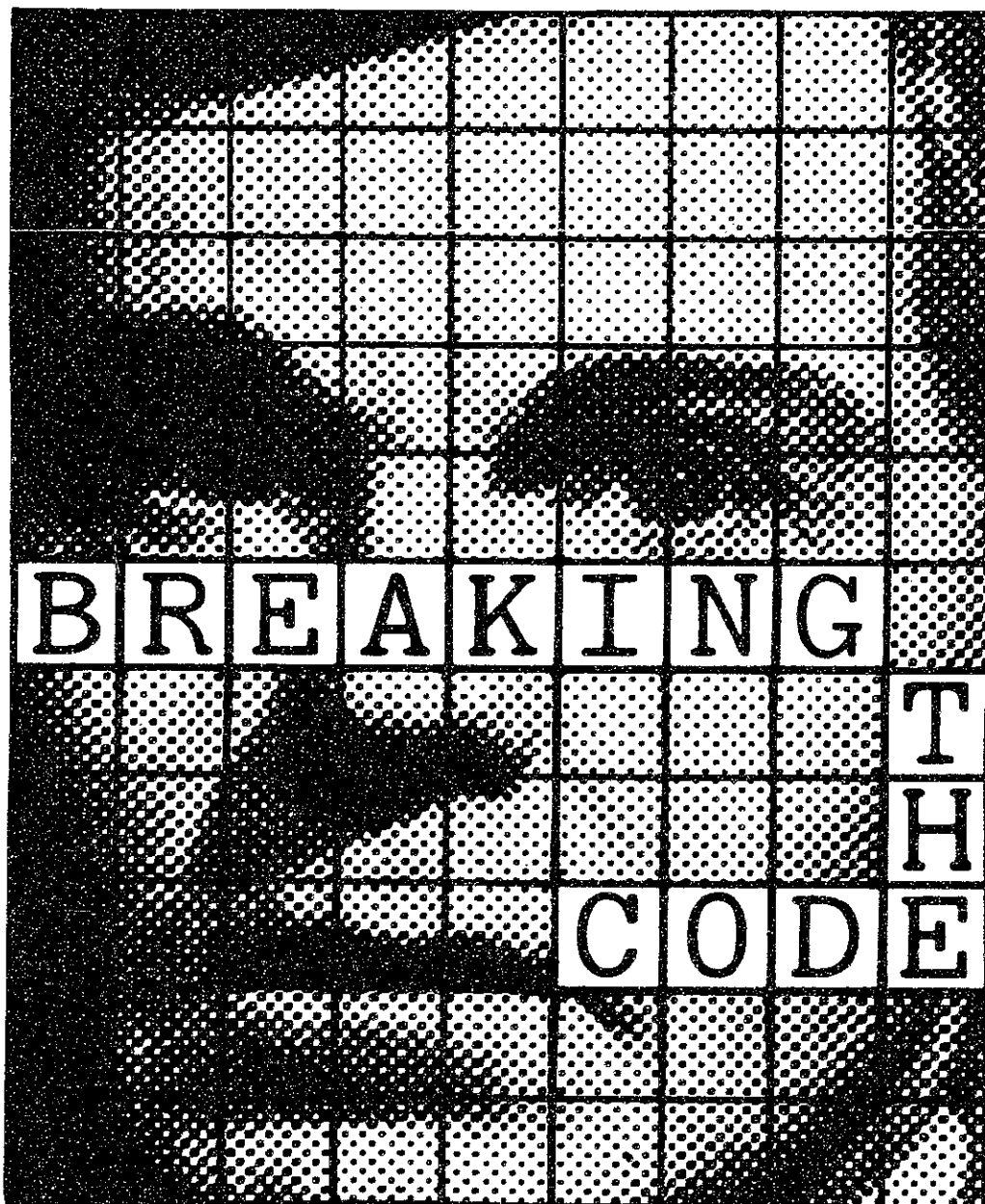
By JULIAN WEST

**M**ATHEMATICS and its practitioners often go unnoticed by the public, and a play based on the life of a great mathematician may seem a curiosity. But *Breaking the Code*, based on the biography *Alan Turing, the Enigma*, is great theater, as well as a surprisingly successful attempt to bring to the public the work of a man who deserves to be better known.

Alan Turing's work is almost visionary in its purity — in the play, he compares the Turing machine to an Einstein thought experiment — but it had important applications in the development of the computer. It is clear that the eccentric people, the early hackers, who first conceived the idea of an "electronic brain" were critical in reshaping the world as we know it, and so Turing's work is of relevance to everyone. Hugh Whitmore's script does not shy away from technical issues, such as Gödel's incompleteness theorem, and assimilates them into the plot in an accurate and accessible manner. But the play is not primarily about the man who changed the course of the war by breaking the German "Enigma" code. It is primarily about the man, Alan Turing.

Clifford Williams' production, transplanted from London with the original cast intact, is a finely crafted character study. Shouldering most of the burden on stage is Derek Jacobi, one of the finest character actors of our day, and winner of a 1985 Tony award for the RSC's touring productions of *Cyrano de Bergerac* and *Much Ado about Nothing*.

If the play has a weakness, it is a lack of overall cohesion. It is essentially a biographic work, and in covering an eventful quarter of a century it becomes episodic,



and swings about wildly in time.

Whitmore has done his best to overcome this necessary difficulty, and he cleverly succeeds in isolating some major themes. In particular, all of Turing's mathematical work, particularly in incompleteness, and the quest to build an intelligence situated outside a human body, is seen as a romantic quest for the divine, and as an attempt to resurrect, in a limited way, his schoolmate Christopher, who was at once Turing's first infatuation and his only great love. But if this makes a tidy organizing principle for a work of theater, it is difficult to accept it as such for a life.

But the weakness of the play is the strength of the production. As Turing is the natural focus of each episode of his life, the spotlight is aimed relentlessly at Jacobi, who dazzles.

From the moment when we first see him at a job interview, chewing his cuticles, fidgeting and bending to retie his shoelace, we know that Jacobi has captured the essence of a brilliant man whose eccentricity lies in an inability, rather than an unwillingness, to conform to societal norms.

He has adopted a natural-sounding stutter, which is not simply a repeat of his *I, Claudius* performance, but a much richer tool which can push in the direction of either comedy or pathos. He also shifts gears fluidly, clicking from adult to whining schoolboy to youth and back.

As a schoolboy, bringing Christopher home for the holidays, he is charmingly awkward as he leans ungracefully against the wall and reacts with mortification to his mother's limited knowledge of mathematics. As a young postdoc, his idealism is evident as he joins the peace movement in 1933 and declares "first and foremost, I regard this war as a most unfortunate interruption of my work."

Always, he is fastidious about his speech, searching for the right phrasings to the point of interrupting himself.

Not that Jacobi is the only presence on stage. A number of strong and distin-

(Please turn to page 10)

### Freshmen!

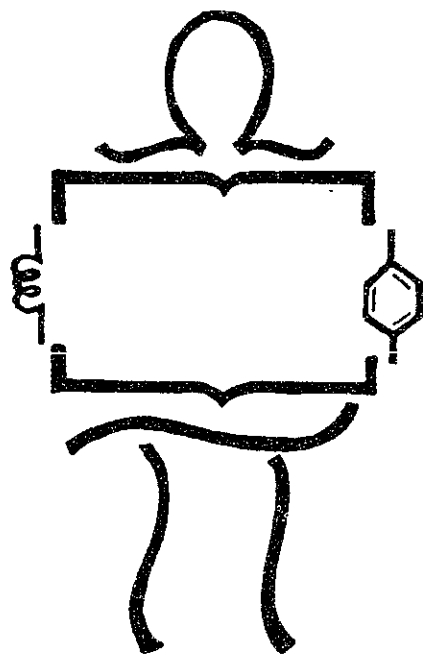
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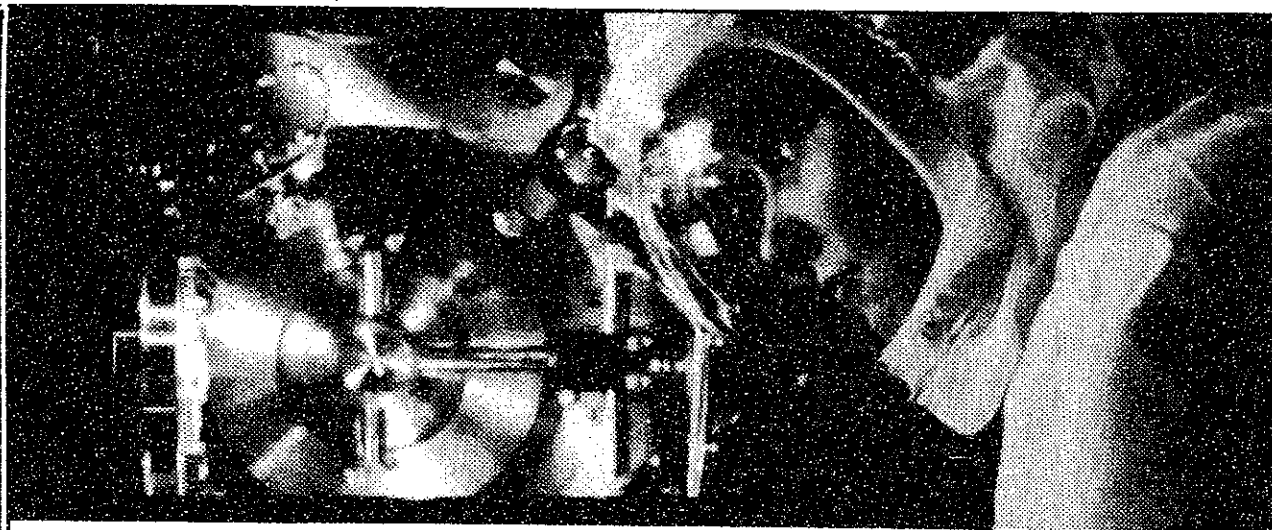
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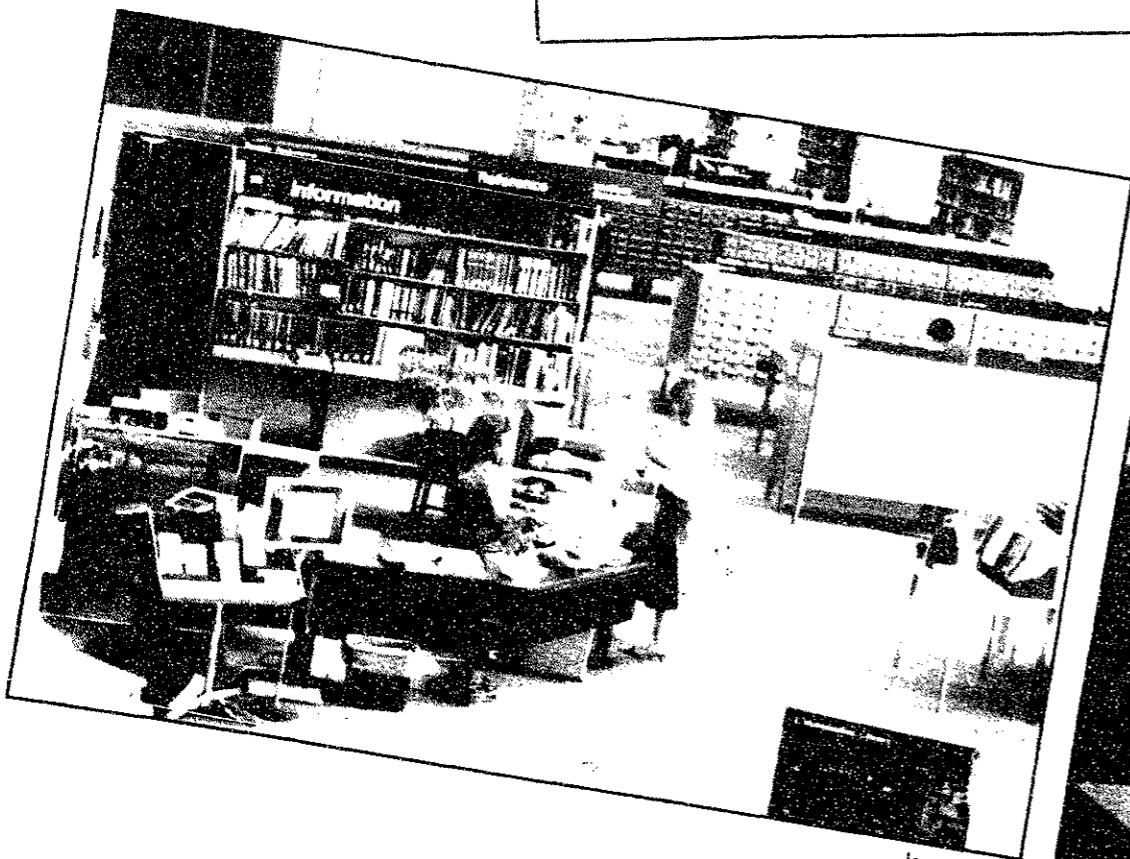
As you can see from the following list of libraries, there is not just one, but a variety of libraries to meet your study needs. The MIT Library System includes five major subject libraries: Engineering, Science, Dewey (social sciences), Rotch (architecture and urban studies), and Humanities. To find the library which covers the subject in which you are interested, please consult the subject guide enclosed. There are also several branch libraries specializing in areas such as aeronautics and astronautics, medical and neurosciences (Schering-Plough), earth, atmospheric and planetary sciences (Lindgren), visual collections in architecture and urban studies, industrial relations, music, and the history of MIT (the Institute Archives and the MIT Museum).

Library staff members are ready to assist you with a full range of services: information and reference, borrowing, computerized literature searching, photocopying, and, of course, instruction in library research methods. Ask in any library about library tours and seminars.

The Libraries' online catalogue, called "Barton," is available through workstations in each library. That means that current material (catalogued since 1974) can be searched online in all libraries. Earlier material can be searched in our manual catalogues; just ask a reference librarian for assistance. Come in and try out Barton — and get your "stripes," your barcoded library borrowing card. You can get your card at any of the libraries, any time.

We hope you enjoy the rest of your year at MIT!

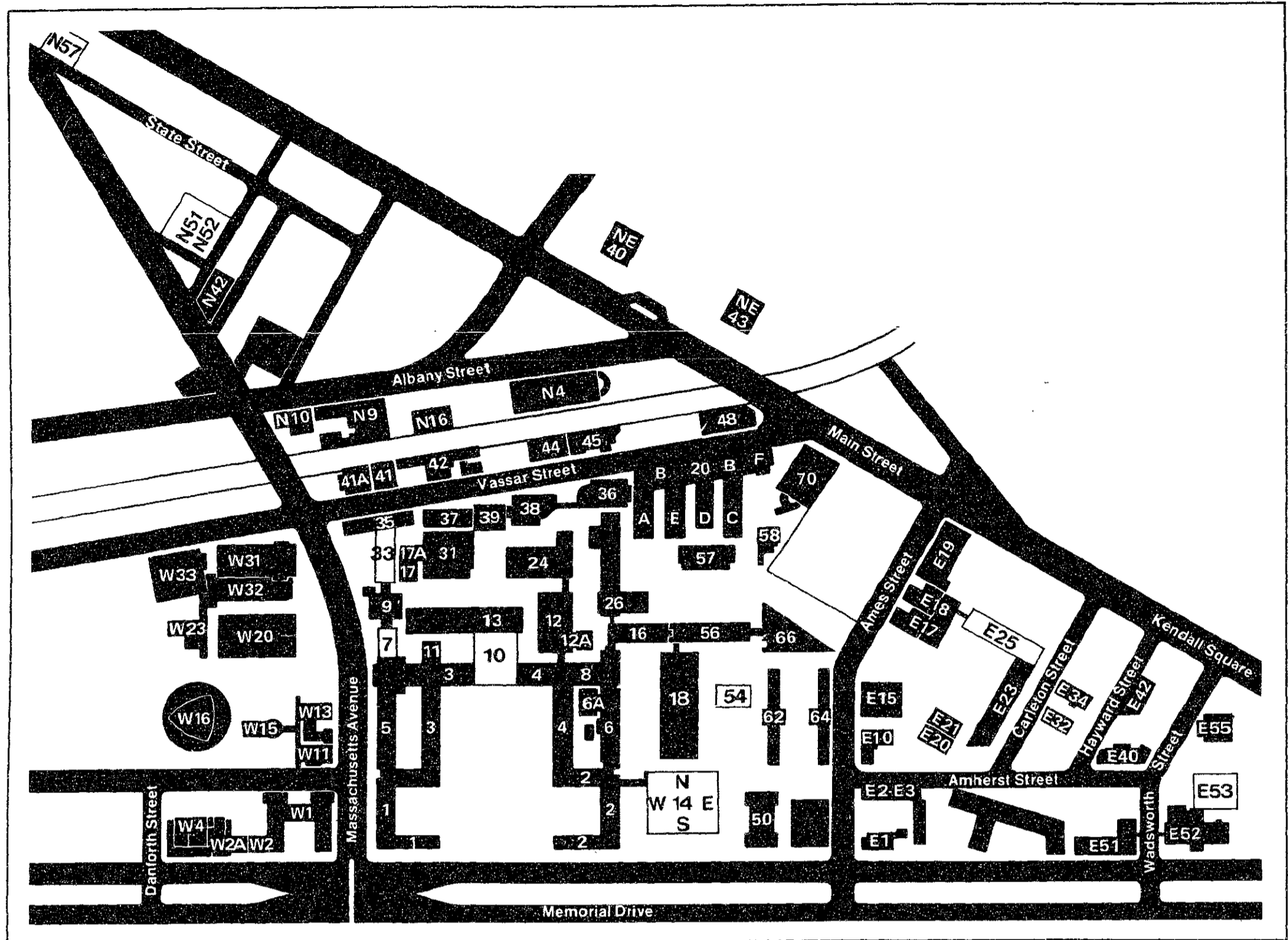
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## THE LIBRARIES

*The MIT Libraries contain more than 2 million volumes, more than 21,000 current subscriptions, and extensive collections of microforms, maps, slides, scores, sound recordings, motion pictures, and videotapes.*

*The MIT Libraries consist of five divisional libraries: Barker Engineering, Dewey, Humanities, Rotch, and Science; several branch libraries; Institute Archives and Special Collections and MIT Museum. A brief description of each follows:*

### **Aeronautics and Astronautics Library**

Room 33-316  
253-5665

Collections: mechanics and physics of fluids; instrumentation, guidance, and control; energy conversion and propulsion; materials; structure and aero-elasticity; aero- and astro-nautical systems, including flight transportation.

Special Collections: NACA/NASA technical reports; AIAA Society papers; AIAA audio-cassette courses with circulating cassette players.

### **Barker Engineering Library**

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Circulation: 253-5661

Collections: biomedical, civil, electrical, environmental, materials, mechanical and ocean engineering; computer science; energy resources and utilization; applied mathematics and mechanics; manufacturing and machinery; mineral resources; and transportation.

Special areas: industrial standards, professional society papers, and technical reports. A part of the collection is in microform, with facilities in the Media Services Area. Videocassettes, films, and film loops on engineering subjects, with playback equipment, are in the Media Services Area.

### **Dewey Library**

Room E53-100  
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Circulation 253-5676  
Reserves 253-7133  
Industrial Relations 253-7133

Collections: social sciences and management emphasizing economics, political science, sociology, statistics, organizational psychology, law (especially legislative research material), U.S. government documents, corporate financial reports, United Nations official documents, and Rand Corporation reports. Dewey Library's Industrial Relations Collection, Room E53-238, is one of the oldest and largest collections of its type in the United States, with extensive holdings covering the broad areas of labor management relations, labor law, personnel administration, and public policy.

### **Humanities Library**

Room 14S-200  
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Reference 253-5683  
Circulation 253-5671  
Reserves 253-5675

Collections: literature, linguistics, history, anthropology, archaeology, history of science and technology, philosophy, psychology, religion, education, library and information sciences and women's and men's studies. Special collections of current college catalogues and telephone books, national bibliographies, and recreational and general magazines and newspapers.

### **Institute Archives and Special Collections**

Room 14N-118  
253-5136

Central depository of materials documenting MIT's history, including official records of MIT, record copies of MIT publications, personal papers of MIT faculty, administrators and alumni, and information about staff, alumni, and student groups. Special collections include oral history collections, rare books and MIT theses from 1868 to date.

### **Lindgren Library**

Room 54-200  
253-5679

Collections: earth and planetary sciences, meteorology, and oceanography. Includes a large number of atlases and maps, major holdings of the U.S. Geological Survey publications, and major U.S. Environmental and Information Data Service materials.

**MIT Museum**

Building N52 - 2nd floor  
Reference (by appointment) 253-4440  
Hart Nautical Collections (by appointment) 253-5942  
Exhibit information 253-4429

Holdings include collections of scientific instruments, photographs, slides, tapes, films, and paintings related to MIT history and nineteenth and twentieth century science and technology. A special collection of architectural drawings includes student thesis drawings from 1870 to 1968. The Hart Nautical Collections document the history of naval architecture and shipbuilding.

Special functions: educational programs for schools and community groups; changing exhibits related to the history of MIT and science and technology, the Compton Gallery (10-500) and the Hart Nautical Galleries (Building 5, first floor).

**Music Library**

Room 14E-109  
Information, Circulation, Reserves 253-5689  
Reference 253-5636

Circulating collections: books and periodicals covering music history and theory, and printed music. Noncirculating collections include sound recordings and such audio playback facilities as compact disk players, open-reel tape decks, stereo cassette deck, phonographs for individual or group listening. The Music Library maintains the reserve materials for music courses. This collection is not duplicated in the Reserve Book Room.

**Retrospective Collection (RSC)**

The RSC is an off-site storage facility for the MIT Libraries. In order to make room for new acquisitions in the campus libraries, less frequently used materials are stored here. Library materials housed here are identified in each of the MIT Libraries. RSC material may be delivered to any MIT library upon submission of a LIDS (Library Institute Delivery Service) form.

**Rotch Library**

Room 7-238  
Reference 253-7054  
Circulation 253-7052

Collections: architecture and building technology; art and architectural history; fine, applied, and media arts; photography, film, and video; environmental design; urban studies and planning; regional and Third World planning; and real estate development.

Special collections: Boston-related materials, including local agency documents, maps, clippings files; U.S. Bureau of the Census population and housing reports; annual reports of Massachusetts cities and towns; microfiche collection of technical reports on urban and building technology; Historic American Buildings Survey on microfiche and microfilm; material on Islamic architecture and urbanism, including national development plans of Islamic countries; materials related to MIT campus architecture.

**Rotch Library Visual Collections**

Room 7-304  
253-7098

Slides, study photographs, and photographic microfiche of architecture, urbanism, art, and photography; films and videotapes; and Aga Khan Program visual archives.

In-house facilities: light tables, 1/2" and 3/4" videocassette playback equipment, videodisc player, 35 mm slide projectors, photographic copystand, and light table in corridor for after-hours use.

**Schering-Plough Library**

Room E25-131  
253-6366

A reference and reserve collection of journals and books in health sciences, technology and management. The principal collection on these topics is in the Science Library, but some unique materials, notably in clinical medicine, are located here.

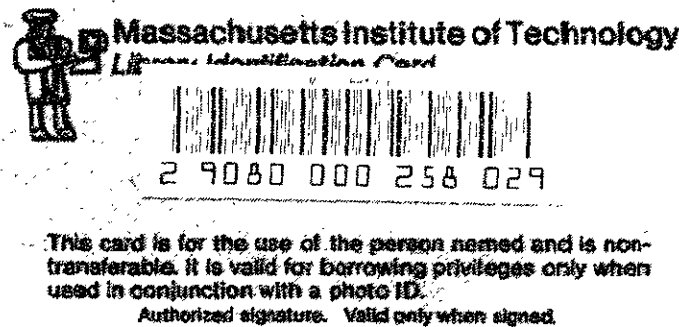
**Science Library**

Room 14S-134  
Reference 253-5685  
Circulation 253-5671  
Reserves 253-5675

Collections: astronomy, biology, biotechnology, chemical engineering, chemistry, applied biological sciences, materials science, medical sciences, nuclear engineering, and physics. Special collections include a complete file of Department of Energy technical reports, the Palomar Sky survey, and topographical maps.

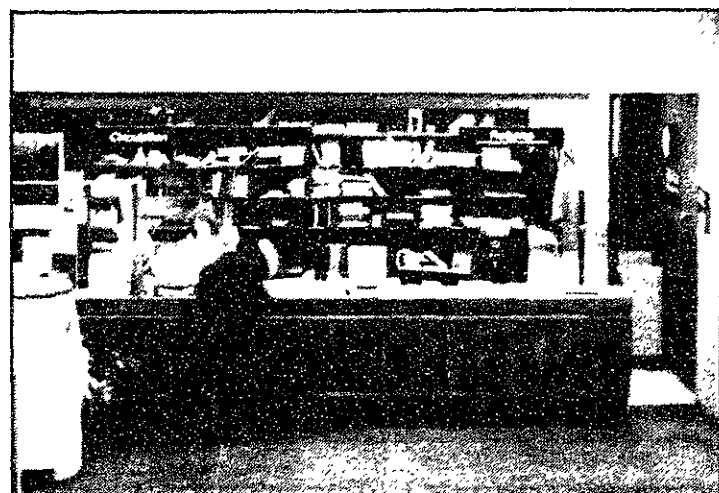
**PROTECTING THE MATERIALS YOU USE**

Many of the books and serials in libraries, including the MIT Libraries, are deteriorating due to the acidic content of the paper and the exposure to environmental conditions such as heat, humidity or air pollution. This damage is greatly compounded when materials are handled carelessly. Damage also results from contact with food and drink. Please take care whenever you handle materials, especially when you are photocopying them. Even slight damage adds up, and repairs or replacements are expensive. Help maintain the collections for your own use, and for the future, by handling materials carefully.



**CIRCULATION**

Part of the Barton system, the online circulation system provides you with a fast way to check out library materials. Books are assigned barcodes, and you may obtain your own "stripes" at any circulation desk. The system allows you to determine the status of an item and to place holds on circulating material. You may request that an item be delivered to another library for more convenient pick-up. The standard loan period is 28 days. Other borrowing information, including the circulation periods for specific categories of materials and details of fine policies, is available at the circulation desks of individual libraries.



Gitta Salomon

Subject	Library
Aeronautics	Aero
Anthropology	Humanities
Applied Mathematics	Science
Applied Mechanics	Barker
Archaeology	Humanities
Architecture	Rotch
Art History	Rotch
Astronautics	Aero
Astronomy	Science
Biochemical Engineering	Science
Biochemistry	Science
Bioengineering	Barker
Biology	Science
Chemical Engineering	Science
Chemistry	Science
Civil Engineering	Barker
Climatology	Lindgren
Communications and Information Systems	Barker
Community and Regional Development	Rotch
Computers	Barker
Earth Sciences	Lindgren
Ecology	Science
Economics	Dewey
Education	Humanities
Electrical Engineering	Barker
Electronic Systems, Materials, and Devices	Barker
Energy	Barker
Environmental Engineering	Barker
Environmental Policy and Planning	Rotch
Film and Video	Rotch
Fluid Engineering	Barker
Food Science	Science
Foreign Literature	Humanities
Geophysics	Lindgren
Geotechnical Engineering	Barker
Health Planning	Dewey
History	Humanities
History of Science and Technology	Humanities
Housing	Rotch
Industrial Relations	Dewey
Islamic Architecture and Urbanism	Rotch
Law (General)	Dewey
Library and Information Sciences	Humanities
Linguistics	Humanities
Literature	Humanities
Management	Dewey
Manufacturing and Machinery	Barker
MIT	Institute Archives MIT Museum
Materials Engineering	Barker
Materials Science	Science
Mathematics	Science
Mechanical Engineering	Barker
Media Arts	Rotch
Medical Sciences	Science
Metallurgy	Science
Meteorology	Lindgren
Mineral Resources	Barker
Music	Music
Naval Architecture, Marine Engineering	Barker
Neurosciences	Schering-Plough
Nuclear Science and Engineering	Science
Nutrition	Science
Ocean Engineering	Barker
Oceanography	Lindgren
Offshore Engineering	Barker
Philosophy	Humanities
Photography	Rotch
Physics	Science
Planetary Science	Lindgren
Political Science	Dewey
Population Studies	Dewey
Psychology	Humanities
Real Estate Development	Rotch
Robotics	Barker
Seismology	Lindgren
Social Theory and Issues	Dewey
Structural Engineering	Barker
Systems Dynamics and Control Engineering	Barker
Thermal Engineering	Barker
Toxicology	Science
Transportation	Barker
Urban and Regional Planning	Rotch
Urban Studies	Rotch
Water Resources	Barker
Women's and Men's Studies	Humanities

## Where to go when you need. . . .

### Research Help

In the course of your research you may need anything from a single piece of information, such as the diffusion coefficient of carbon dioxide in water or the author of *The Wasteland*, to a list of sources useful for completing a paper on topics such as Michelangelo, the stock market crash, or the structure of the Polaris submarine. Reference librarians trained in the science of information retrieval are available in every library, by phone or in person, from 9 a.m. to 5 p.m. Monday through Friday. (See the individual library descriptions for telephone numbers.) The Humanities Library provides evening reference services Sunday through Thursday. In addition, subject specialists in fields listed in the Subject Guide are available in each library for specialized questions. Call the reference desks for their names and telephone numbers.

### Database Searching

Customized subject bibliographies are available, for a fee, from the Computerized Literature Search Service. Computerized versions of almost any print index or abstract are usually more up to date and can be searched quickly and efficiently. Call x3-7746 for more information and an appointment. Free, limited, quick searches are available at any reference desk.

### Books or Journals

Three catalogues are necessary to describe the two million items which the MIT Libraries own. Barton, the online catalogue, contains materials since 1974 as well as selected older materials, including most of the Libraries 21,000 journal subscriptions. For material dated 1963-1974, you should consult Barton first and then look at the library card catalog. For pre-1963 material check the Dewey Decimal Catalogue (DDC) on microfiche. A copy of the DDC is in every library. Always consult a librarian before you decide that we do not own what you need.

### A Book from Storage

Due to space limitations in the Libraries, some materials are kept in storage in the RetroSpective Collection (RSC). Material can be recalled within 24 hours by filling out a request at any Reference or Information desk.

### Special Materials

The Libraries own many materials that are not listed in the catalogues. Special materials include annual reports, archival materials, architectural drawings, contracts, maps, photographs, reprints, society papers, technical reports, and U.S. government documents. These materials are best accessed by consulting a reference librarian in any library.

### Items MIT Does Not Own

You may have searched the library catalogues above and consulted a reference librarian and still have found that MIT does not own the material you need. In order to borrow books and other materials from another library consult the Interlibrary Borrowing Service located in the Humanities Library. Fill out a request at the Humanities reference desk and ILB will locate what you need. The Libraries are also happy to receive suggestions for purchase of materials.

### Copies

Coin- and card-operated copy machines are in almost every library. Copy cards can be purchased by account number, cash, or check at the Microreproduction Laboratory in 14-0551, the basement of Hayden Library, in person Monday through Friday 9-5 or by mail.

### Special Help

The Libraries staff will make every effort to facilitate use of the collections for handicapped users. Special services include a Braille typewriter, a Visualek machine and a Kurzweil reading machine. For more information, call the Office of the Director, 14S-216, 253-5651.



Gitta Salomon

## MIT LIBRARIES FALL AND SPRING TERM HOURS 1987-88 September 8 - December 17, 1987 and February 1 - May 18, 1988

		Mon-Thu	Fri	Sat	Sun
Administrative Offices	14S-216	9-5		closed	
Aeronautics and Astronautics Library	33-316	8:30-6		11-6	1-5
Barker Engineering Library	10-500	8:30-11	8:30-7	11-6	1-11
Computerized Literature Search Service	14SM-48	9-5		closed	
Dewey Library	E53-100	8:30-11	8:30-7	11-6	1-11
Humanities Library*	14S-100	8-12	8-8	8-8	noon-12
Institute Archives and Special Collections	14N-118	9-5		closed	
Lindgren Library	54-200	8:30-11	8:30-7	11-6	1-11
Microreproduction Laboratory	14-0551	9-5		closed	
MIT Museum	N52-200	(closed Monday) Tue-Fri 9-5		12-4	12-4
Music Library	14E-109	8:30-11	8:30-7	11-6	1-11
Reserve Book Room	14N-132	8:30-11	8:30-7	11-6	1-11
RetroSpective Collection	N57	9-5		closed	
Rotch Library	7-238	8:30-10	8:30-7	11-6	2-10
Rotch Library Visual Collections	7-304	8:30-6		closed	
Schering-Plough Library	E25-131	9-6		closed	
Science Library*	14S-100	8-12	8-8	8-8	noon-12

RISC  
Reference & Information Services Committee  
Photos from IAP '87 Library Photo Contest

### SPECIAL SCHEDULES ARE POSTED FOR HOLIDAYS

\* Open midnight - 8 am, Monday - Friday, Friday 8 pm - Saturday 8 am, and Saturday 8 pm - Sunday noon for members of MIT community only (MIT ID required).

## ARTS

The Tech Performing Arts Series presents...

## BRANDENBURG ENSEMBLE

Peter Serkin will join the Brandenburg Ensemble in a concert of Bach's *Concerto in A* and *Concerto in E*, and the *Brandenburg Concerto No. 3*, Handel's *Concerto Grosso*, Op. 6, No. 6, and Vivaldi's *Sinfonia* from *Al Santo Sepulcro*.  
Symphony Hall, Feb. 21 at 3pm. MIT price: \$5.

## ARDITTI STRING QUARTET

The British Arditti String Quartet will be in Boston with in unusual all-British program including works by Peter Maxwell Davies, Michael Tippett, Cornelius Cardew, Vic Hoyland and Brian Ferneyhough.  
Pickman Hall, Longy School of Music,  
One Follen St., Cambridge. Feb. 24 at 8pm. MIT price: \$4.

## BOSTON CHAMBER MUSIC SOCIETY

The Boston Chamber Music Society will perform Beethoven's *String Trio in E flat*, *Kammersymphonie* by Schönberg/Webern and Frack's *Piano Quintet*. Sanders Theatre, Feb. 28 at 8pm. MIT price: \$3.

Tickets are on sale at the Technology Community Association, W20-450 in the Student Center.  
Office hours posted on the door. Call x3-4885 for further information.

The Tech Performing Arts Series, a service for the entire MIT community, from The Tech, MIT's student newspaper, in conjunction with the Technology Community Association, MIT's student community service organization.

## ENGLISH CHAMBER ORCHESTRA

Andras Schiff will be soloist for Beethoven's *Piano Concerto No. 4*, in a program which also includes Mozart's *Symphony No. 41*, "Jupiter," and *Metamorphosen for 23 solo strings* by Strauss. Jeffrey Tate will conduct.  
Symphony Hall, Feb. 28 at 8pm. MIT price: \$5.

## SINFONOVA

SinfoNova, is an extraordinary chamber orchestra, and their Mozart is especially divine.

So don't miss their 5th anniversary concert — also to be given in New York's Carnegie Hall — in which Anthony di Bonaventura will perform Mozart's *Piano Concerto No. 14*. Also on the imaginative program chosen by conductor Aram Gharabekian is the world premiere of *Adagio in Memory of Aram Khachaturian* by Soviet Armenian composer Edward Mirzoyan, Rossini's *String Sonata No. 6*, Pärt's *Cantus in Memory of Benjamin Britten* and Mahler's orchestration of Schubert's *Death and the Maiden*.  
Jordan Hall, March 4 at 8pm. MIT price: \$3.

## MUSICA VIVA

The Boston Musica Viva will give a program entitled "Jazz Accents," which includes the US premiere of *War Play* by Kurt Weill/David Drew, a work which resets Weill's incidental music written for the 1936 production of Paul Greene's play *Jobbny Johnson*.  
Jordan Hall, March 18 at 8pm. MIT price: \$4.50.

COME JOIN US FOR GOOD FOOD AND CONVERSATION

WE WILL BE DISCUSSING

## NORTHROP CORPORATION, ELECTRO-MECHANICAL DIVISION

FROM THE ENGINEERING PERSPECTIVE

THE ELECTRO-MECHANICAL DIVISION IS AN INDUSTRY LEADER IN THE INTEGRATION OF ADVANCED ELECTRONICS, ESPECIALLY IN PASSIVE SENSING AND SIGNAL PROCESSING TECHNOLOGIES

DISCIPLINES WHICH ARE HIRED AT NORTHROP INCLUDE:

- ELECTRICAL AND MECHANICAL ENGINEERING
- COMPUTER SCIENCE
- MATH
- PHYSICS

This meeting will take place on: February 18, 1988  
at 6:00 pm — 8:00 pm, Room 4-153

## Jacobi presents finely crafted character study

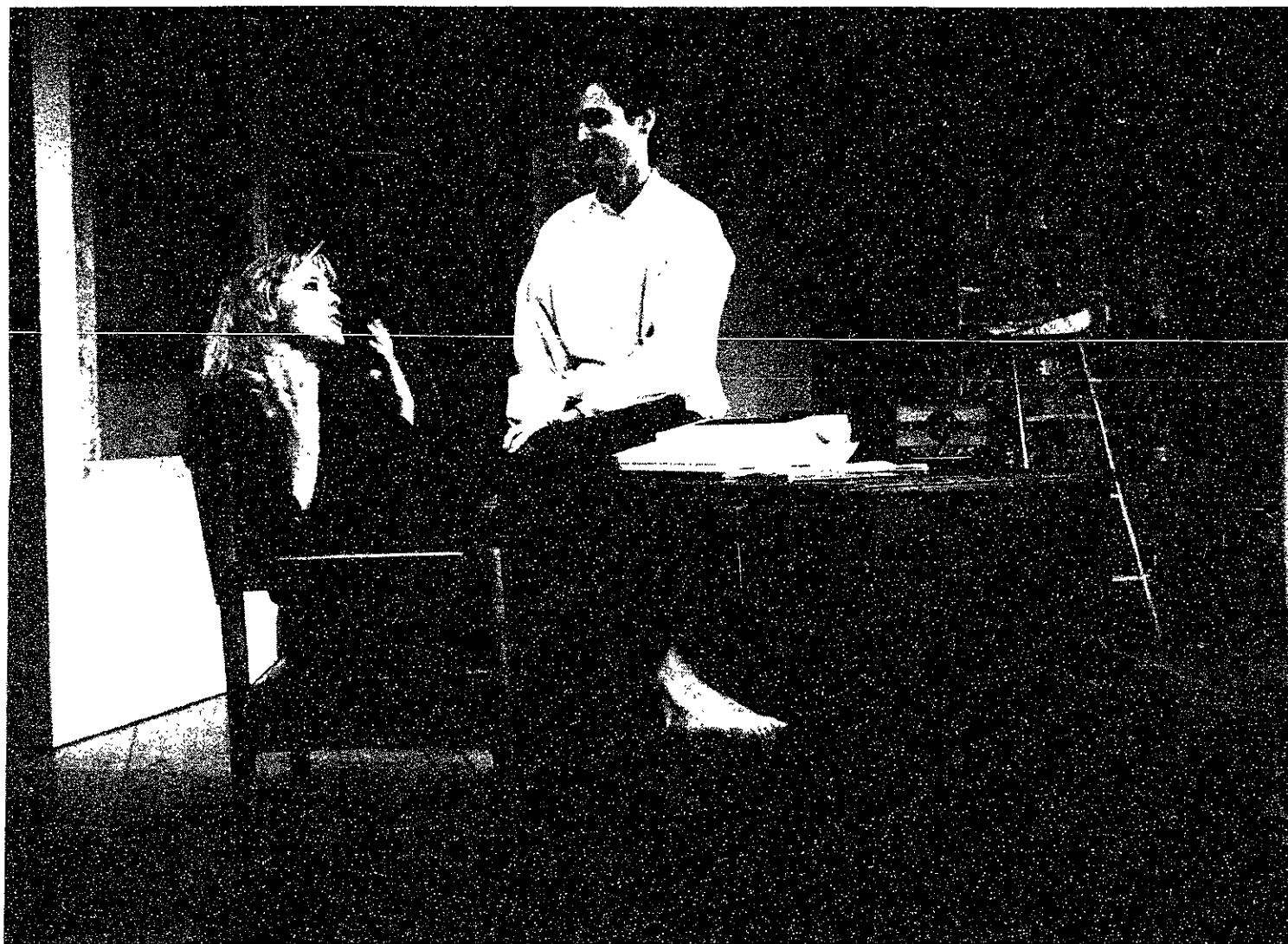
(Continued from page 8)

guished actors have settled for comparatively minor roles, among them Jenny Agutter (who is perhaps best known for her appearance as a teenager in *The Railway Children*, but also for the films *Logan's Run*, *Equus*, and *An American Werewolf in London*.) Agutter is charming as Pat Green, a colleague of Turing's who is struck by both his brilliance and his personality, and who has difficulty accepting his homosexuality only because of her attraction to him.

Michael Dolan played the pivotal character in the story which frames the play, an intensely unpleasant pickup who visits Alan for dinner, spends the night, and robs him. Colm Meaney (who recently featured in John Huston's acclaimed *The Dead*) was fine as the police officer who takes Turing's report, but eventually rounds on him, and prosecutes him for homosexuality (still a crime in Britain in the early 1950s).

Rachel Gurney (whom U.S. audiences will remember from the television series *Upstairs, Downstairs* and *Lost Empires*) is particularly noteworthy as Turing's mother. Perhaps because she had always been close to Alan, Sara Turing has considerably more difficulty in accepting her son's homosexuality, and the tortured questioning underlying her collected, stoic exterior is painful to watch.

All of the people who drift through the play were influences on Turing, but in the end his journey was made alone. Speculating on the possibility of Turing's suicide, Whitmore provides his character with a Hamlet-like soliloquy, which Jacobi renders with disarming straightforwardness and simplicity. "In the long run," he declares, mathematically precise to the end, "it's not breaking the code that matters. It's where you go from there that's the real problem. What is needed is the ability to take ideas seriously and follow them through to their logical if upsetting conclusion."



Amy Mitchell and Brian Linden star in "The Real Thing" by Tom Stoppard. The final two performances of the Dramashop production are tonight and tomorrow at 8 pm in Kresge Little Theatre. An appropriate offering for Valentine's weekend, "The Real Thing" focusses on a playwright's fight to make sense of love, both on stage and in real life. Adultery, virginity, Jacobean incest and cricket bats are among the sources of comedy.

### Erratum

Tonight is the last performance of *You're a Good Man, Charlie Brown*. There is no performance tomorrow, as was indicated in Tuesday's *Tech*.

# ARTS

### 1988-89 ANNUAL SCHEDULING MEETING

for  
KRESGE AUDITORIUM  
STUDENT CENTER  
WALKER MEMORIAL  
(MORSS HALL)

Thursday, March 10, 1988

This meeting is for groups planning major events for the period of September, 1988 through May, 1988. If your group has not received a copy of the Annual Scheduling Packet in the mail or if you need more information, please contact Steve Burke (Bldg. W20-501, X 3-7975) in the Campus Activities Office, in the Student Center. Preliminary applications are due Wednesday, March 2, by 5:00pm.

### Attention Seniors!

Consider being an  
MIT Admissions Counselor

The Office of Admissions is now accepting applications for the position of Admissions Counselor. This is a one year full-time position starting in July, 1988 (some flexibility is possible). Duties will include:

- Conducting information sessions for visitors
- Interviewing prospective students
- Recruitment travel around the U.S.
- Coordinating MIT student involvement in the Admissions Office
- Evaluating applications
- Participating in admissions committee decisions

The position is open to students graduating in January or June, 1988. Applications are available from Jane Alexander in the Admissions office (3-108) and should be returned not later than February 29, 1988.

## There's still time to call at the Student Telethon



\$100 to  
top Dorm Group

Top Group Prize  
FINE LINE

Free Dinner

February

16-18 & 23-25

Glasses

Tuesdays, Wednesdays, & Thursdays

6:00 to 10:00 p.m.

prizes

in the Bush Room (10-105)

\$100 to  
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Come One, Come all, Individually or with your group.

To reserve your phone, contact

Barbara Peterson

(ext. 3-5489, room 10-140)

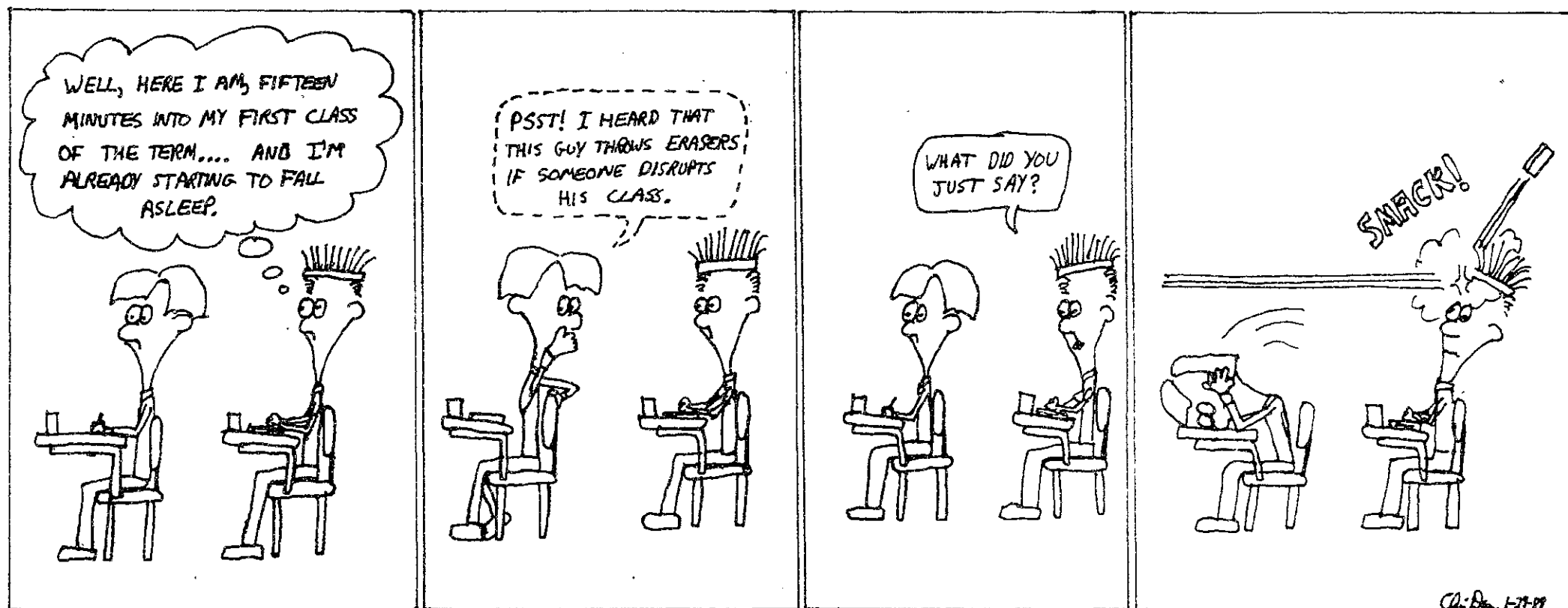


Prizes furnished by The Averoff, The Charles Hotel, The Coop, Dunham Shoes, Fine Line, Heritage Travel, The Hyatt Regency, Cambridge, Kendall Drug, The Marriott, The Royal Sonesta, Toscanini's, University Stationery.

# comics

Nick

By Chris Doerr



### Harvard-Epworth United Methodist Church

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opposite Cambridge Common

Sunday Worship: 9 and 11 am

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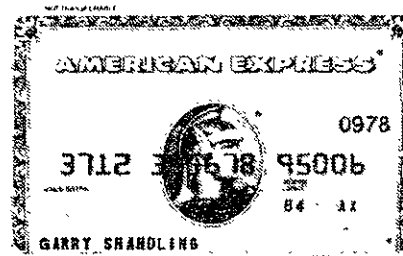
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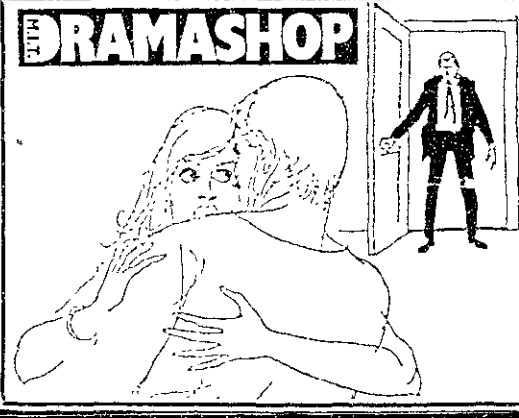
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**THE REAL THING**  
by Tom Stoppard  
Directed by Robert N. Serota  
FEBRUARY  
4, 5, 6 & 11, 12, 13  
at 8pm  
KRESGE LITTLE THEATRE  
TICKETS \$6  
(\$5 student/senior)  
INFORMATION 233 2577  
RESERVATIONS 233 4720

Massachusetts Institute of Technology  
Graduate Christian Fellowship  
**OPEN HOUSE**  
Friday, February 19  
4:00 - 6:00 PM  
Lewis Room 66-360, MIT  
*Open to MIT faculty, staff, and graduate students*  
*Refreshments served*  
This event supported by the Graduate Student Council

**The Writing Prizes**  
Deadline:  
**April 14, 1988**

*The Writing Prizes*

Fiction	Short Story	Poetry	Drama	Essay	Scientific and Engineering Writing	Science Writing for the Public
---------	-------------	--------	-------	-------	------------------------------------	--------------------------------


Cash prizes awarded in each category.  
For applications and guidelines contact The Writing Program Room 14E-310.

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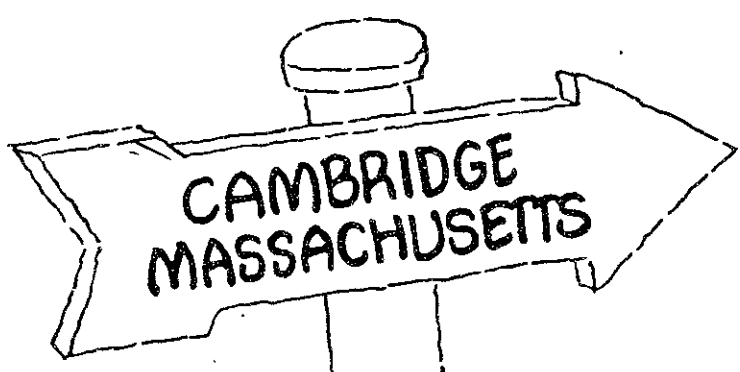
**90 Mt. Auburn Street** 547-2720  
**Harvard Square** 547-1298

**TECH CATHOLIC COMMUNITY**  
*Welcomes You!*

**ASH Wednesday**  
**February 17th**  
**8:00, 12:00\*, & 7:00 PM**

**Mass**  
**Sundays 9-12-5**  
**MIT Chapel**  
\* Little Kresge

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For exciting careers, challenges, growth, and opportunities to work with clients and technologies that are eclipsing the rest of the world. You could be working with some of the sharpest scientific minds in the areas of computer/information and physical sciences, voice/data communications networks, scientific applications software, and parallel processing.

So if you're an E.E., C.S., Applied Math or Physical Sciences Graduate (or soon to be one), we'd like a chance to tell you where to go. We are an Equal Opportunity Employer M/F/V/H.

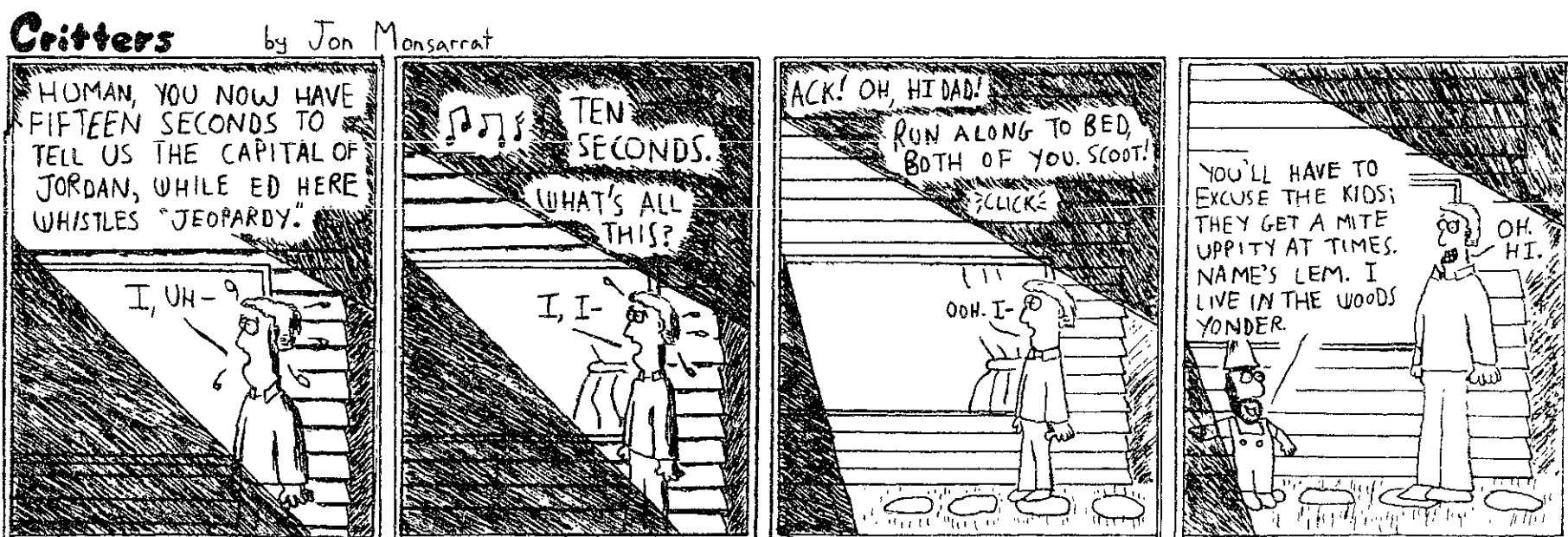
**Bolt Beranek and Newman Inc.**

Come to our booth at Tau Beta Pi's Career Fair on February 24th.

# comics

By Jon Monsarrat

Critters



## classified advertising

**Classified Advertising in *The Tech*:** \$5.00 per insertion for each 35 words or less. Must be *prepaid*, with complete name, address, and phone number. *The Tech*, W20-483; or PO Box 29, MIT Branch, Cambridge, MA 02139.

**Spring Break Nassau/Paradise Island** from \$279. Package includes: roundtrip air, transfers, 7 nights hotel, beach parties, free lunch, cruise, free admission to night-clubs, taxes, and more!! Cancun packages also available! Organize a small group, earn a free trip! Call American Travel Services 1-800-231-0113 or (203) 967-3330.

**Telephone Interviewers.** Charles River Field Service is currently hiring part time telephone interviewers to conduct public opinion polls from our Cambridge office. No sales. Flexible hours. On the Red Line. Call 491-8215 Monday - Friday 10-5

**Boston Area Patent Firm** desires to meet students with a strong technical background interested in pursuing careers in patent law. Candidates should have a physics, electronics, computer science background, or a chemical background, preferably in chemical engineering or biotechnology. Will consider full-time or part-time working arrangements while candidates attend law school. If interested, please send resume to James M. Smith, Esq., Hamilton, Brook, Smith & Reynolds, Two Militia Drive, Lexington, MA 02173.

**COMPUTER SCIENCE STUDENTS** Start-up A.I. company looking for 3 part-time system programmers. Must be highly productive and experienced in C and/or assembly language coding on 80X86 or 680X0 products. Particular areas of expertise required are: interpreters, transformational grammars, relational data bases, data description languages, and advanced business graphics. Pay is up to \$15/hour with hours accommodated to your class schedule. Equity participation and full-time employment upon graduation are possible dependent upon performance. Send resume along with current particulars (including computer(s) owned and hours per week available) and accomplishments to:

President  
Occam Research Corp.  
P.O. Box 82-271  
Wellesley, Mass. 02181

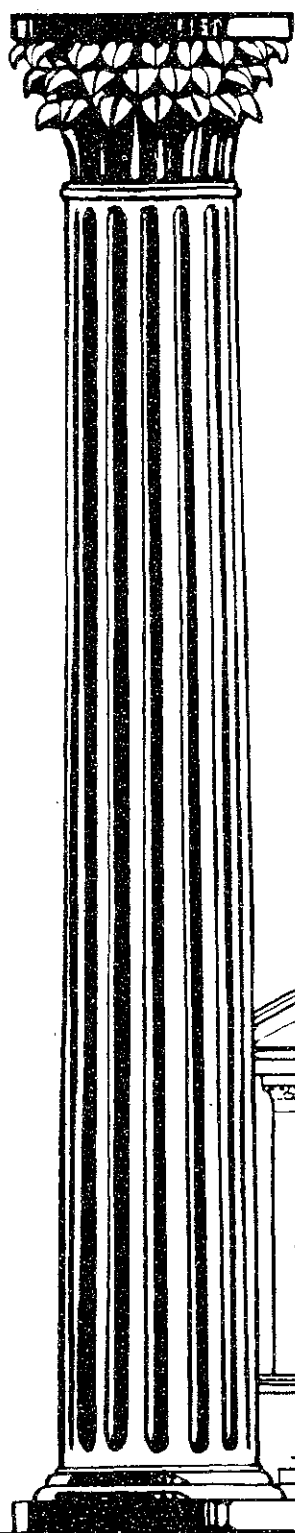
**HP 28C for sale.** Perfect condition, 1 month old. Performs graphics, calculus, derivatives and symbolic algebra. Programable, all manuals included. Call Calvin 603-882-5200 days, 617-658-8707 evenings-weekends.

### Gamemasters Attend!

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**The Tech Subscription Rates:** \$15 one year 3rd class mail (\$28 two years); \$39 one year 1st class mail (\$75 two years); \$44 one year foreign; \$8 one year MIT Mail (2 years \$15). *The Tech*, W20-483; or PO Box 29, MIT Branch, Cambridge, MA 02139. *Prepayment required.*

## Remember how concerned you were about choosing the right school?



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If you're graduating with a Bachelor's or Master's degree, we'd like the chance to tell you more about your bright future with us. We have challenging opportunities in VLSI Systems Design, Multi-processor Architectures, Communication Networks, Expert Systems, Manufacturing Technology, Systems and Network Software and Systems Architecture and Integration.

### On-Campus Interviews Wednesday, February 24

See your Placement Office to set up an interview with our NCR Representative. NCR is an equal opportunity employer.

**NCR... people working together to create value.**

# New student lounge to open

(Continued from page 1)  
light snack and relax for a while. Anything that tends to mix a variety of people is a good thing, Dickson said. In this regard, Cafe 13 would impart a personal touch to a portion of the campus that is predominantly academic, he added.

Once the plan has been approved, Rodriguez envisaged further changes in the cafe environment. He suggested revolving doors to regulate extreme weather conditions, more tables and chairs, a carpet to take care of

the acoustics and make the room warm and comfortable, audio equipment and a piano.

Rodriguez also recommended using the space from time to time for a variety of performances, such as those held this IAP, which he felt were immensely successful and generated a lot of public attention and enthusiasm.

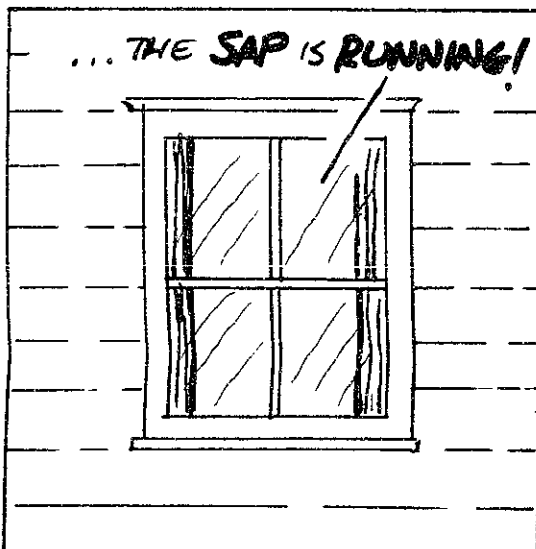
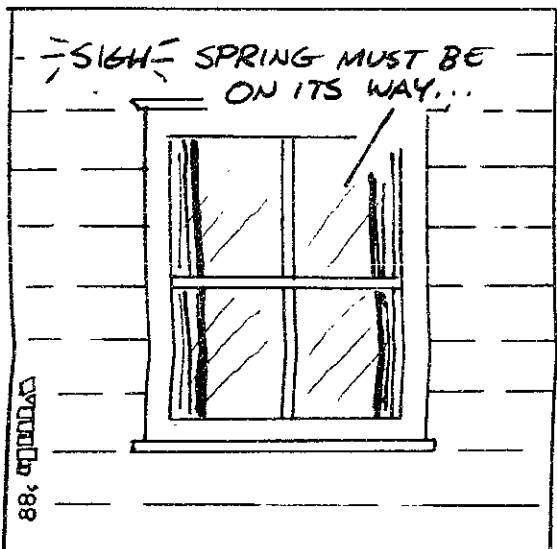
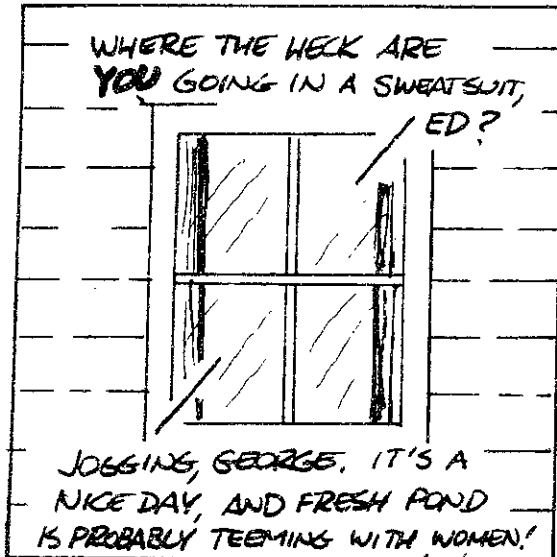
Opinions were divided as to the anticipated duration of time before the idea could be implemented. Dickson felt that implementation would not be possible before the next school year be-

cause it involves the process of getting the plan approved, the area cleared, alterations completed and an alternative "back of the house" space allocated.

However, Rodriguez felt that once the red tape had been cleared, Cafe 13 could kick off by early April.

Dickson stressed that he wanted the atmosphere in Cafe 13 to be very informal so that students and faculty could interact freely. He expected the scale of the project to be modest at first.

Outside Looking In  
By V. Michael Bove

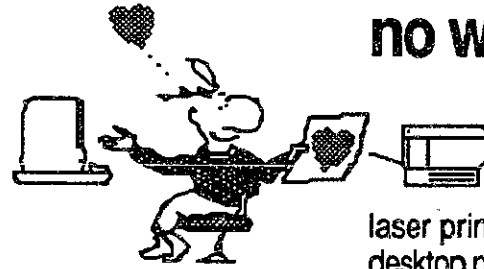


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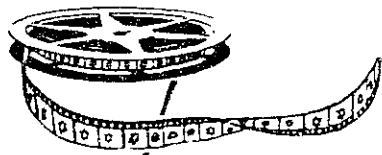
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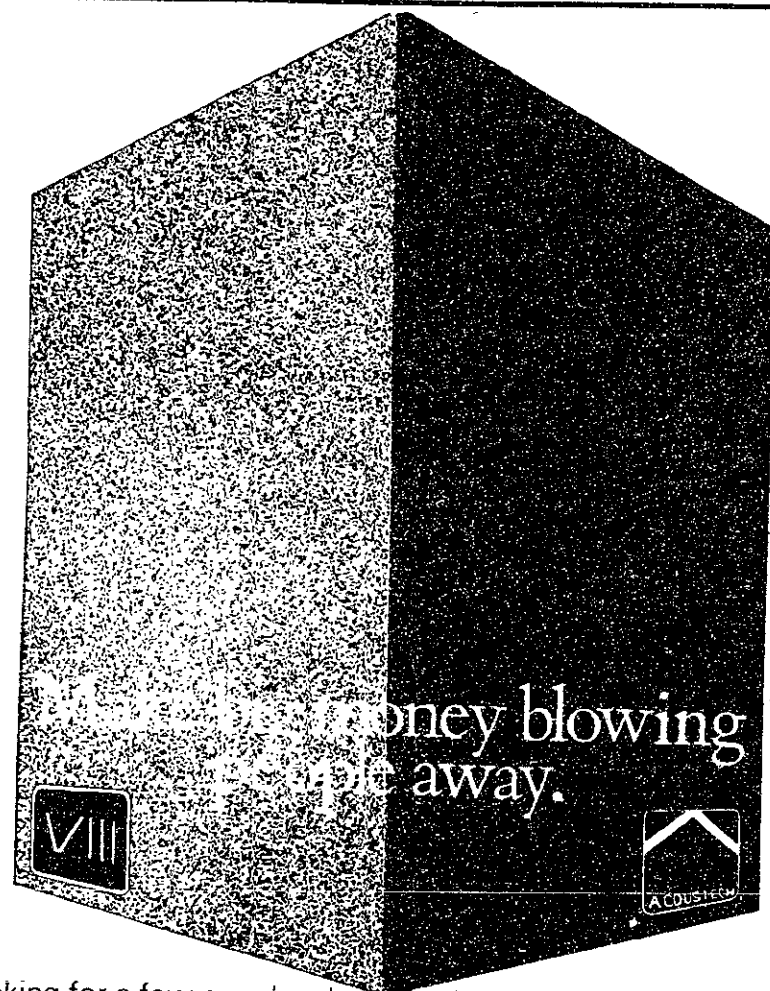
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# sports

## Men's hockey beaten in overtime, 6-5

By Peter Dunn

Sometimes a hockey team is a little more than they appear to be, and sometimes they are a little less. The MIT men's hockey team showed a great deal of the former in last Tuesday's game versus the Suffolk Rams — playing their most exciting home game of the season — but showed just enough of the latter to allow the Rams to pull off a 6-5 upset in overtime.

In a rematch of the opening round game of the Ben Martin hockey tournament, the Engineers again faced the Rams, who had bested them by a 7-4 score. This time the game would have none of the defensive lapses that allowed three goals in 27 seconds. The Engineers would lead from the outset, and it was only in overtime that their defense would fall apart to allow the winning goal.

But except for that *faux pas* in the final minutes of play, it was the defense that shone brightest. Star defenseman Alec Jessiman '88 and Rick Russell G played to their usual exceptional level, while workhorses Dale Archer G and Brian Luschwitz '89 showed that they too could rise to the occasion when the spotlight fell on them. Archer made the outstanding play of the game when he broke up a Suffolk drive in the MIT zone, then recovered the puck to skate rink-long for MIT's fourth goal; Luschwitz played a brilliant, physical game, highlighted at one point where he made a key defensive move despite playing without his stick.

While the Ben Martin tournament game was slow-paced, penalty-plagued, and dominated by Suffolk from the outset, this rematch was exactly the opposite: fast-paced with clean but hard hitting (only four penalties in the first two periods as compared to 14 in the previous match), and dominated by MIT from the outset. Both teams were checking hard but MIT seemed to be getting the better part of the deal as the Rams backed off, intimidated by MIT's show of force.

The Engineers were passing well and setting up well in the slot, but the most outstanding

quality of their offense was their shooting. While MIT often chooses their shots too carefully, sometimes losing the scoring opportunity in the process, in this game they were happy just to put the shot on the net, and to get good rebound opportunities in the strategy. The Engineers were the ones applying the pressure: both offensively with their shooting and a fast transition game, and defensively with deep forechecking and tight man-on-man coverage in the neutral zone.

MIT opened the scoring ten seconds past the halfway mark of the first period on a nice defensive play by Russell at the Suffolk blue line. Russell thwarted a Suffolk breakout and drove to the left boards, drawing the Suffolk defense, then passed to an open Tom Allen G for the goal. In response, Suffolk tried the same strategy as in their earlier matchup, headmanning the puck through the defensemen, but MIT was wary of this and the Rams were afforded few breakaway chances. Still, the Rams did manage to even the score on a 2-on-1 break and, with just more than two minutes left in the first period, it looked like it would stay tied going into the second. However, with exactly a minute left, John Santoro '89 again gave the Engineers the lead when he put in a sliding puck that Paul Tiao '89 had driven into the Suffolk zone with hard forechecking.

The Engineers lost some of their offensive fire starting the second period, but pressured well in the Suffolk zone. The lead was extended to 3-1 as both Jeff Bates '90 and Henry Dotterer '91 wacked at the puck at the Suffolk goal crease, with Dotterer finally putting it past the sprawled netminder. If Suffolk thought that MIT was an easy kill after their earlier win, by this point they realized that they had only caught the Engineers on a bad day.

Suffolk again tied the score as MIT got into penalty trouble and could not box out the play from near the net. Of Suffolk's three power plays during the period, the Engineers could only kill one. The Rams' first power-play goal developed from good passing up



Ken L. Church/The Tech

An MIT hockey player and his Suffolk opponent vie for the puck during Tuesday's game.

the left boards to behind the MIT net, where the puck was drawn to the front for the stuff. Their second power-play goal came right off a faceoff in the MIT zone as the Suffolk forward skated unhindered to the deep slot and let go a high, hard slapshot. It was at this point, with less than a minute left in the second period, and again looking as if the teams would head for the lockers deadlocked, that Archer made his brilliant drive up the ice to once again give the Engineers the 4-3 lead.

The Engineers again resorted to hard checking to intimidate the Rams, and it worked for the better half of the third period until Suffolk once again evened the

score at 4-4. Too eager to extend their lead, MIT spread themselves too thinly and allowed Suffolk a short-handed goal when the Rams flooded the MIT crease with players. Disheartened, the MIT offense slowed until Jessiman again reignited the fire. With less than five minutes to play Jessiman took control of the puck at the left point as the Rams tried clear the zone, skated in to center ice, scoring with a slow backhand. All the Engineers had to do was hold onto the lead.

Suffolk pulled their goaltender in the last minute of play and it looked as if MIT might hold onto the lead as time and again they blocked good scoring chances. However, as with the

Suffolk power plays during the second period, the Engineers had trouble as the Rams brought the puck behind the MIT net. With heavy traffic in front of the net, Suffolk again tied the game with 0:16 left on the clock when a high shot deflected off the back of goaltender Peter Gasparini '88 to find the top of the net.

In overtime the Engineers again dominated with hard hustle and quick breaks up the ice, but the defense had its one major moment of failure as the Rams easily scored on a 2-on-0 breakaway. Still, MIT gained the moral victory by proving to the Suffolk Rams that they were neither easy pushovers nor apt to lose confidence after losing a lead.

## Peace Corps On-Campus Interviews

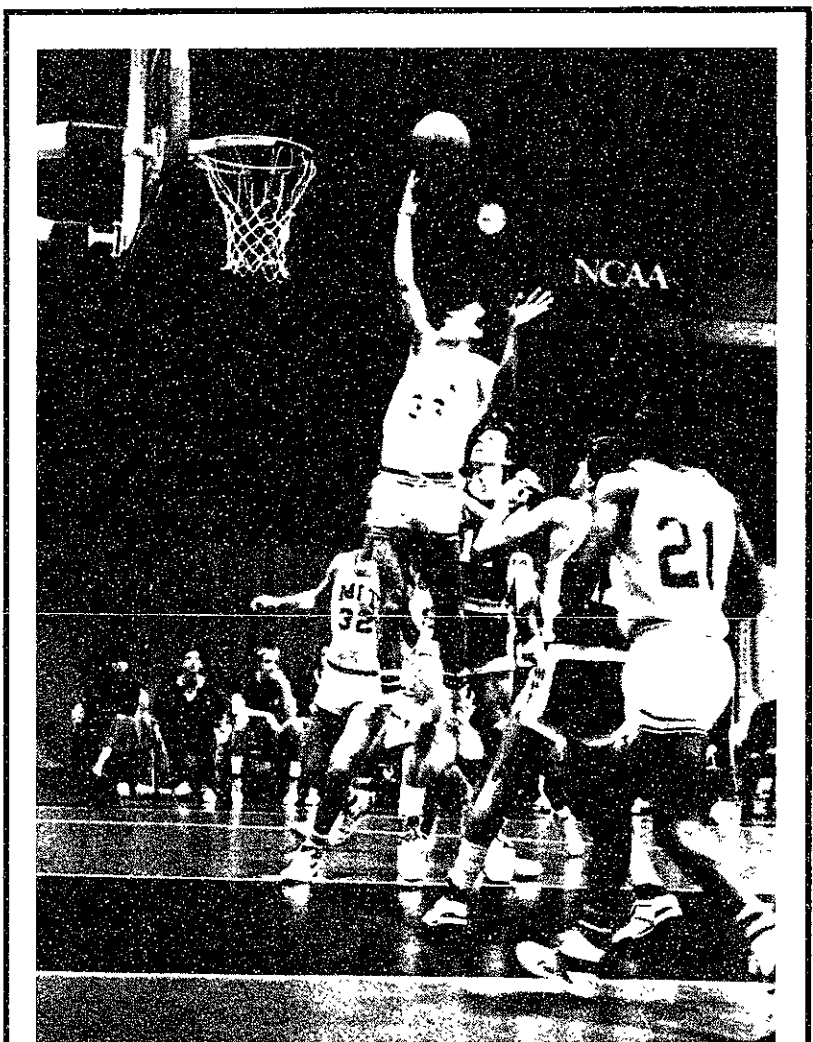


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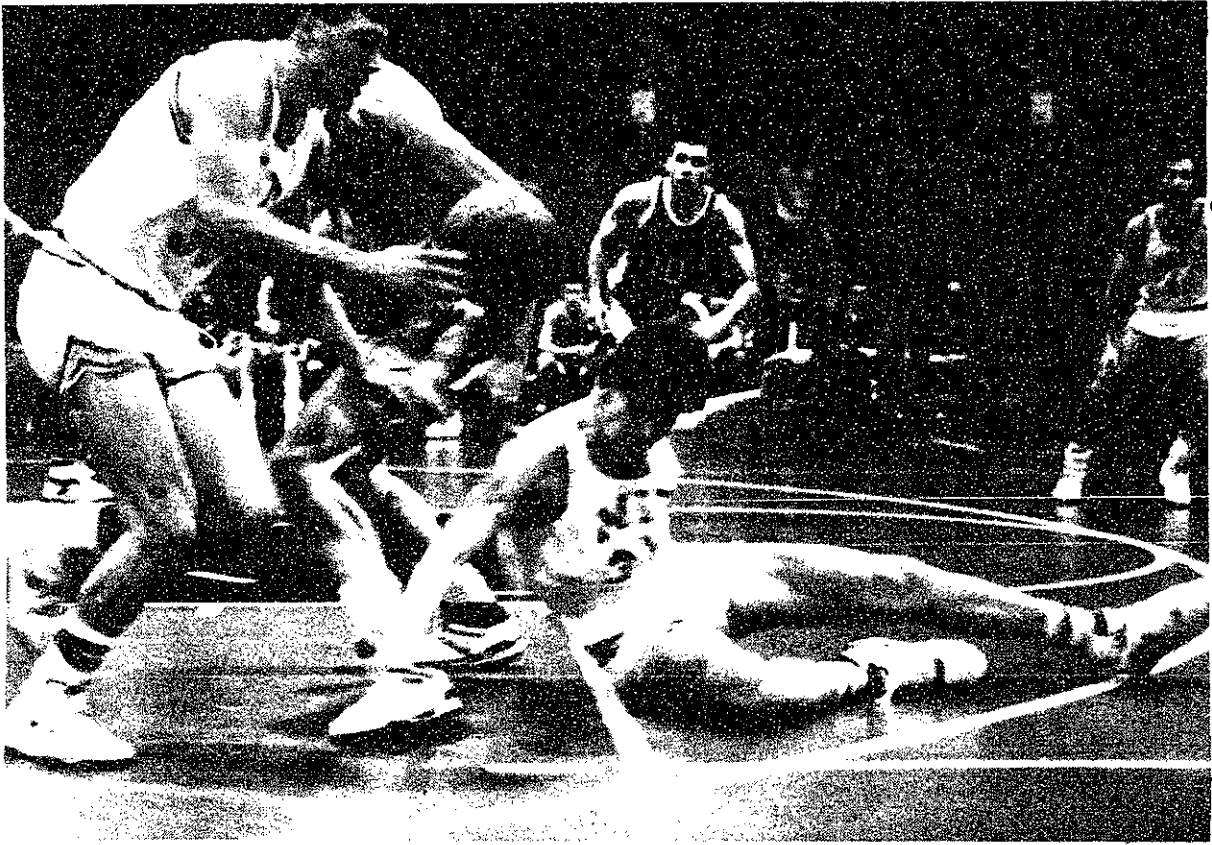
### Peace Corps Interviews at M.I.T.

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- \* Sign up in the Office Career Services - 253-4733
- \* Engineers, Math, and Science Majors/Minors are encouraged to apply!



Kristine AuYeung/The Tech

Dave Dellagrotte '90 leaps for the ball during yesterday's game against WPI. Although MIT lead at halftime 42-31, the Engineers suffered a narrow 70-74 defeat.



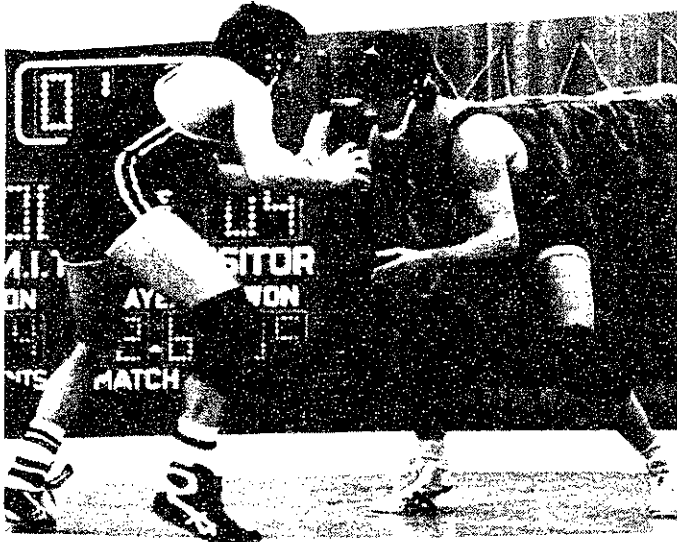
Kristine AuYeung



Kristine AuYeung



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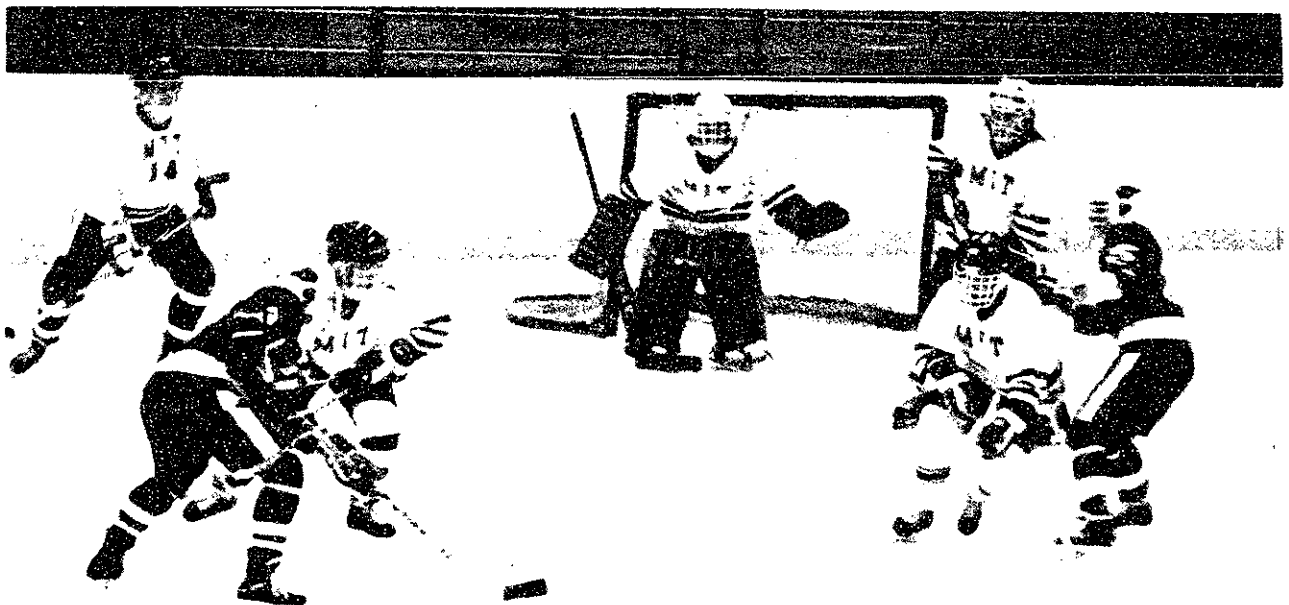


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# in Action



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