



Lisette W. M. Lambregts/The Tech

Revenge is sweet. . . Rey Villarreal '92 (right) takes a break from studying for the first 8.01 test to help Kyle Peltonen '89 drench Gayle Tomita '90 on Sunday night.

Departments to administer Phase II

By Sophia S. Wang

The responsibility for Phase II of the Institute Writing Requirement has been transferred to department coordinators without much difficulty, according to Les Perelman, coordinator of the writing requirement.

Perelman also said that the deadlines for completing the Phase II requirement would be more strictly enforced than in past years, and that the number of cooperative subjects have been expanded.

With Perelman's replacing Bonnie J. Walters as coordinator of the writing requirement last year came an important change in structure of the program. This revision, which was adopted by the faculty on Apr. 20, shifted the responsibility for overseeing the Phase II requirement from the Writing Requirement Office to the individual departments.

Freshmen encouraged to formulate IAP plans

By Tzielan Lee

Both this year's *Freshman Handbook* and an "Independent Activities Period Preview" distributed today by the IAP Policy Committee state that freshmen are expected to plan their IAP schedules with their academic advisors. But IAP Policy Committee Chairman James W. Mar '41 said the committee was simply encouraging advisors to discuss IAP with their students.

"IAP will still be optional," Mar said. "The only drastic changes will be in the area of making the three-and-a-half week term more appealing to everyone from undergraduates to faculty."

The suggestion that students formally plan their IAP was made by the IAP Policy Committee last spring. At that time, the committee also recommended that MIT take steps to increase faculty participation in IAP and that more credit-bearing subjects be offered during the January intersession.

The report followed the release

meant to engage upperclass students with specific writing that they will do in their careers and "in the specialized discourse of their professional studies."

In past years, papers coming in to satisfy the requirement have always been overseen by the Committee on the Writing Requirement, which then hired readers to evaluate the papers. These readers were usually people finishing their PhD's in the field in which the paper was written, teachers, or other people qualified in the field.

However, the committee decided that the best teachers and judges of written discourse in a particular discipline were the practitioners of that discipline, Perelman said. Each department is now able to set its own guidelines for evaluating students' papers according to its own standards. Each department will also decide its own policy on how the

of a controversial Undergraduate Academic Support Office study last fall which concluded that more than 60 percent of freshmen, sophomores, and juniors spent their time during IAP "non-productively."

"We are just starting to collect all the information from last year's IAP committee," Mar said. "It will take us a while to take a look at all of the notes and observations."

The committee's immediate goal is to try and recruit more undergraduates (especially freshmen) and faculty to participate in IAP. Academic advisors are supposed to encourage more student involvement, and the new "IAP Preview" is intended to give an "early, enticing glimpse" of the period.

Mar believed it was especially important to get freshmen interested in IAP, as they are new to IAP and do not know what it is about. Also, the *Freshman Handbook* called IAP "an integral

(Please turn to page 18)

IFC Judcomm duties grow

By David P. Hamilton

The new InterFraternity Council alcohol policy has greatly increased the responsibilities of the IFC Judicial Committee, according to Judcomm's outgoing chairman, Sean Walker '89. Saying the workload was putting to great a strain on his time, Walker will resign his post as of Oct. 26.

Chairing the Judcomm has become more time-consuming since the IFC adopted a new alcohol policy this year, Walker said. Judcomm shares responsibility for enforcement of the policy with the Community Relations Committee.

The new policy requires independent living groups to: notify neighbors of parties at least a week in advance, check identification of all guests, and have members attend an Institute-sponsored program in alcohol management. It also forbids the mentioning or depiction of alcohol on posters.

Judcomm has vigorously enforced the new policy, and the resulting caseload has demolished the tradition in which Judcomm chairman was a "rush only job," Walker explained. Walker is also president of Phi Gamma Delta fraternity.

In the past, the Judicial Committee operated mainly during the two weeks of Residence/Orientation. At that time, its responsibility is to enforce IFC rush regulations and the dry rush policy.

Judcomm's new authority has increased the strain on committee members, Walker said. "We're meeting weekly, and holding hearings every other week," he continued.

Manpower problems are a major concern, he continued. Cur-

rently there are ten members on the committee, which, according to Walker, is not enough.

"The current by-laws are not set up to handle the committee's expanded responsibility," Walker said. He mentioned the appeal process as another potential problem.

Under current Judcomm guidelines, a case is first heard by seven members of the committee. If the house is found guilty, it may

(Please turn to page 2)

Language classes see decline in enrollment

By David Rothstein

Preliminary figures released by the Foreign Languages and Literatures Section (FLL) of the Department of Humanities show a dramatic drop in the number of freshmen enrolled in third-semester language courses. Some FLL faculty blamed the drop, in part, on revisions to the Institute Humanities, Arts, and Social Sciences Distribution Requirement which came into effect this fall.

Meanwhile, no replacement has been found for former FLL section head Claire J. Kramsch, who resigned over what she perceived as a "breakdown in communication" between the FLL section and the Institute over the role of foreign languages at MIT. There is also an ongoing dispute over the quality and quantity of research conducted by FLL faculty.

Dean of the School of Humanities and Social Science Ann F. Friedlaender PhD '64 is serving as acting head of the section.

After an unsuccessful internal search this summer to find a replacement for Kramsch, the Institute will advertise nationwide for a "distinguished scholar at the professional level," with a "record in literatures and cultures in one or more of the principle

language groups," Friedlaender said.

The FLL section now has no independent vote on the School Council, which, among other things, rules on faculty appointments and tenure approvals, Kramsch noted.

Enrollment drops sharply

Among the major languages offered at MIT, Spanish has seen a drop from 18 incoming freshmen enrolled in Spanish III (21.277) last fall to only one this fall. Enrollment in the third-year French class has dropped from 19 last year to six this year, and German, from seven to three.

Friedlaender had not seen these figures a week ago, and seemed to give them little weight, but noted that changes in the HASS-D requirement could be made if the figures indicated a trend for decreased enrollment.

The drop came in the first year of the new HASS-D requirement, which was designed to "provide a more structured and intellectually coherent overall HASS requirement," according to the proposal for the new requirement.

But while the HASS-D changes may be good for humanities in

(Please turn to page 18)

MIT alumnus commands *Discovery*

By Anita Hsiung

Commanding the space shuttle *Discovery* which landed yesterday was Navy Capt. Frederick "Rick" Hauck, a MIT alumnus who received a master's degree from the Department of Nuclear Engineering in 1966. Other crew members on the four-day flight included Air Force Col. Richard O. Covey, pilot, and mission specialists John M. Lounge, George D. (Pinky) Nelson, and Marine Lt. Col. David C. Hilmers, all veterans of space flight.

Discovery landed yesterday at Edwards Air Force Base in California. The flight was hailed by NASA officials as a success, having launched the \$100 million tracking and data-relay satellite that was to have been launched by the *Challenger* in January 1986. The crew of the *Discovery* also performed many other experiments, and on Sunday, they held an orbiting press conference, during which they paid tribute to the *Challenger* astronauts.

Hauck was chosen as commander of this flight in January 1987. The flight was originally scheduled for Feb. 18. Hauck objected to that early date at a news conference at Johnson Space Center, stating that more testing and modification was needed before the shuttle could fly again.

Before this flight, Hauck had

flown two missions on the shuttle — the first one in April 1983 on the *Challenger* along with the first American woman astronaut, Sally Ride. Hauck's second flight was in November 1984 on *Discovery*'s second flight. That flight logged over 139 hours in orbit.

Hauck is a transplant from the West Coast — born in Long Beach, CA — but now living in Winchester, MA, and Washington, DC. He received a bachelor's degree in physics from Tufts University and then entered MIT.

(Please turn to page 20)



Photo courtesy NASA

Frederick H. Hauck SM '66, commander of the *Discovery* flight.

New IFC alcohol policy swells Judcomm duties

(Continued from page 1)

appeal the decision without specifying any grounds. If the remaining three members of the committee uphold the verdict, the house may again appeal — this time to the full IFC. Each living group may then cast a vote to make the verdict final.

Judcomm is still formulating its approach to the new policy, Walker said. For instance, although the committee has the authority to make spot checks of parties to ensure compliance, Walker said official Judcomm representatives would not be sent to parties unless the committee had heard of repeated or systematic violations by a particular living group.

One hearing completed

The Judicial Committee held hearings last Wednesday in which three fraternities were tried, and has scheduled two more nights of hearings before Walker's resignation takes effect. There are nine alleged violations to try on those two nights, four of them rush violations. The other five are violations of the alcohol policy.

Walker said the remaining alcohol violations were all violations of the poster policy, which prohibits any mention or depiction of alcohol on a party poster. These violations carry a fine of \$50 to \$100 each.

The committee is trying to "increase the awareness of the IFC" regarding the importance of the alcohol policy, Walker said. By punishing every infraction, even relatively minor poster violations, the Judicial Committee can deter houses from violating any portion of the policy, he continued.

Neal Dorow, advisor to fraternities and independent living groups, has expressed interest in reviewing the judicial process, Walker said. Dorow concurred, pointing out that the viability of the IFC depends on its ability to make its own guidelines and enforce them.

Dorow would like Judcomm to establish "a clear sense of purpose" regarding its mission. After talking with several of the IFC officers, he has concluded that there is a need for improvement in the procedures and enforcement guidelines Judcomm uses.

He declined to be too specific on what changes he thought would be necessary, saying that it would be important for IFC members to develop a system "that works for them."

There is some discontent about the strict enforcement of the new alcohol policy, Dorow said, although he thinks it is largely confined to the "rank and file" membership of the IFC. "Most of the presidents, social chairmen, and treasurers understand the need for this policy," he continued.

Beta Theta Phi punished

Judcomm found Beta Theta Phi guilty of several violations of the new alcohol policy at a hearing last Wednesday, sources told *The Tech*. Other charges also brought against the fraternity were dropped.

Dorow said he thought the violations were probably the result of a "lack of understanding" of the new guidelines on the part of the fraternity.

The complaint was brought against the fraternity by a Judcomm representative present at a house party in his official capacity. The party was held while rush guidelines were still in effect, according to Walker.

Minors were allegedly drinking in a common area during the party, Dorow said, but Judcomm was not able to prove that the

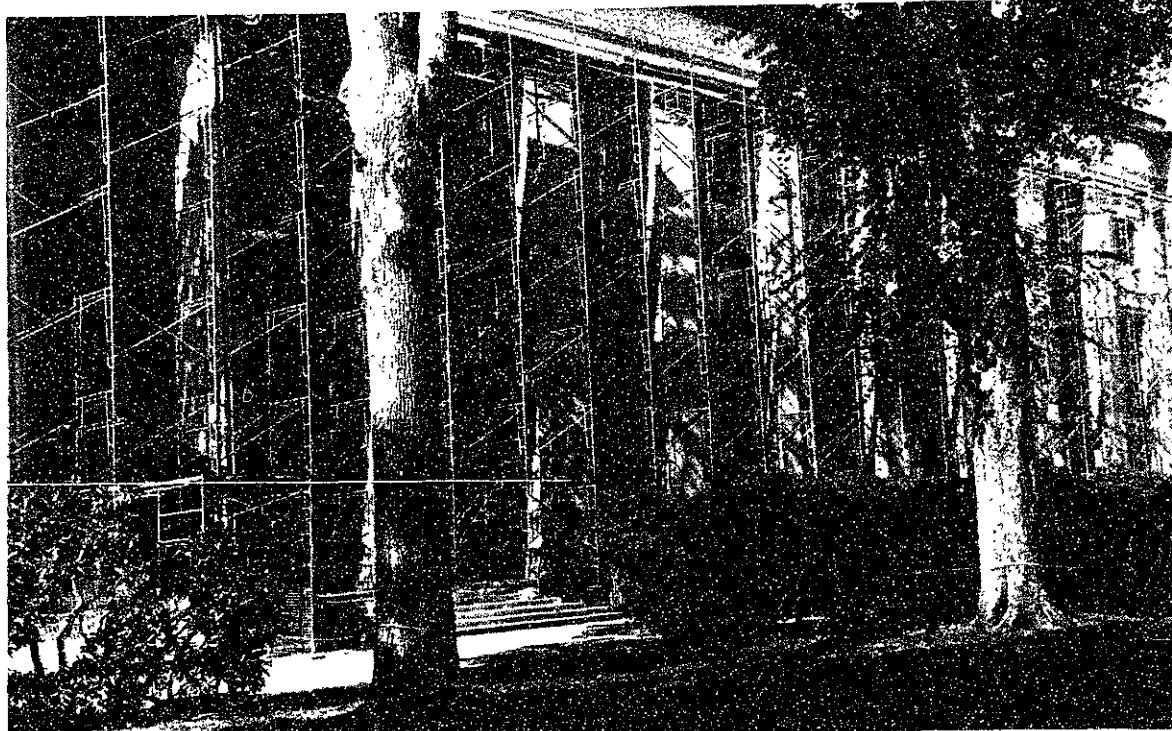
bartenders had served underage drinkers. He declined to be more specific about the other charges.

Beta Theta Phi must pay a \$500 fine for the unspecified violations. Walker did not know if the fraternity would appeal the ruling.

Mike Casagrande '89, president of BTP, declined to comment on the substance of the hearings.

The same night, Judcomm tried two other unidentified houses for rush violations. The charge against one of the houses, a violation of dry rush rules, was dismissed. The other house was fined \$75 for two "automatic" infractions during rush. Violations such as a display of insignia prior to the beginning of rush, or failure to turn in door records to the IFC after rush are considered "automatic" infractions.

Judcomm can levy sanctions ranging from a private reprimand to a \$500 fine per violation. The committee may also make a recommendation to the Community Relations Committee for mandatory community service. Judcomm occasionally publicizes the details of a hearing, although it is considered a severe sanction and is rarely done, Walker said.



Lisette W. M. Lambregts/The Tech
Scaffolding masks the view of Building 3 as Killian Court gets a facelift.

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news roundup

from the associated press wire

World

One Beirut hostage released

Freedom has come to one foreigner held hostage in Lebanon. But it is not clear yet whether any other hostages are going to be freed by their pro-Iranian captors.

The hostage released yesterday to Syrian custody was Mithileshwar Singh, an Indian who also holds resident alien status in the United States. Government sources in Syria said late last night that Singh had arrived in Damascus and would be turned over to the American ambassador. State Department spokeswoman Phyllis Oakly said American officials are anxious to talk with Singh to see if he has any information about Americans held hostage in Lebanon.

Reports had circulated earlier that American Alan Steen was about to be released. He was one of three American professors kidnapped with Singh on the campus of Beirut University College. Islamic Jihad had said in a statement Saturday that it would release one hostage as a gesture of goodwill to the United States.

Seoul Olympics end

The 1988 Summer Olympics — troubled by drugs but no violence — came to a close in Seoul, South Korea, on Sunday. The 16-day event was held amid extraordinary security to prevent any attacks. It was the first summer games attended by both the United States and the Soviet Union since 1976. The Soviets led the medal chase, collecting 132 medals, followed by East Germany and the United States. The games were tainted by drug use by some medal-winners — most notably Canada's Ben Johnson.

Chileans go to polls tomorrow

Anti-government demonstrations have been frequent in Chile, but Sunday it was tens of thousands of supporters who took to the streets in Santiago. Chileans vote yes or no Wednesday on continued rule of Gen. Augusto Pinochet. After supporters of the military government cleared out, small bands of opponents replaced them. Police used tear gas and water cannon to break up some of the anti-government protests.

US-Iran talks alleged

The editor of an Israeli weekly newspaper is sticking by the paper's story that the United States is talking with Iran about the release of American hostages held in Lebanon. Hesh Kestin, editor of *The Nation*, said talks have been going on all weekend near Geneva and will continue into the week. The paper said several hostages will be released in coming days. The Reagan Administration has denied any direct contact with Iran.

Pakistani violence reported

There are reports that ethnic violence in southern Pakistan has claimed more than 200 lives in recent days. The unrest continued on Sunday, when an unidentified group clash with police and set vehicles ablaze in Karachi.

Bomb attacks in Jerusalem

Israeli authorities said three girls and a seminary student were wounded when a bomb hidden in a loaf of bread blew up in a store frequented by Orthodox Jews. A second booby-trapped loaf of bread blew up outside another store in Jerusalem's Old City. Meanwhile, hospital officials in the occupied Gaza Strip said Israeli soldiers shot and wounded two Palestinians. The Israeli Army denied the report.

Botha meets with Zaire leader

South African officials are expressing elation following a meeting this weekend between President P.W. Botha and Zaire's President Mobutu Sese Seko. But foes of apartheid are not happy. South Africa's largest-selling black newspaper, *City Press*, editorialized that until apartheid is abolished, "peace will not come" to Botha's country. And leaders of the African National Congress guerrilla movement condemned Mobutu for meeting with Botha.

Alleged embassy attack thwarted

A newspaper in Lima, Peru, reported Sunday that the government this weekend thwarted a planned attack on the US embassy in the Peruvian capital. The newspaper *El Comercio* — quoting a government official — reported two guerrillas armed with guns and explosives were arrested outside the embassy on Saturday.

Welsh offices firebombed

A Welsh nationalist group is rolling up the welcome mat. Several real estate offices dealing in cottages in Wales have been firebombed over the weekend. Some Welsh are upset about the increasing demand for weekend homes in Wales among the English.

Arafat says he would accept Jews in government

A Kuwaiti newspaper reported Yasser Arafat has said he would welcome Jews in any possible Palestinian government. Palestinian nationalists are expected to gather in Algiers this month and discuss the creation of a provisional government.

League withdraws from debate

The League of Women Voters is withdrawing its sponsorship of the presidential debate later this month in Los Angeles. It said the Bush and Dukakis campaigns want to turn the debate into a charade by selecting camera shots and questioners.

The bipartisan Commission on Presidential Elections will now sponsor the debate. The commission, which was formed by the two national parties, sponsored the first Bush/Dukakis debate.

Turner accuses Bush of fostering Noriega ties

Former Central Intelligence Agency Director Stansfield Turner denied reports that he accused Vice President George Bush of restarting CIA payments to Panama's Gen. Manuel Noriega. But, in a new interview, Turner did accuse Bush of fostering close ties with Noriega. Turner said it is not coincidence that, every time Bush is in government, the United States is very friendly with what he calls "the Noriegas and the Marcoses."

Candidates hail shuttle

Vice President George Bush was among the first to greet the returning *Discovery* astronauts yesterday. The Republican presidential nominee was at the foot of the stairway when the crew came out of the spacecraft. He shook hands with the astronauts and called yesterday "a great day for our country."

Democratic presidential nominee Michael Dukakis also had a few words about the successful shuttle mission — the first since the *Challenger* disaster. During a speech in Hartford, CT, Dukakis said he was thrilled about the flight's achievements and the courage of the astronauts.

Child calls Bush a drug

Democrat Michael Dukakis took his campaign to a Hartford, CT, elementary school yesterday. When he asked students to list some drugs they should avoid, one child responded "Bush." Dukakis picked up on the surprise pronouncement, saying, "Puts you to sleep, right?"

Nation

Discovery returns triumphantly

For the space shuttle *Discovery*, it is mission accomplished. The first shuttle aloft since the *Challenger* disaster returned yesterday in a picture-perfect landing from a successful four-day mission in space.

After the craft glided out of a blue sky and touched down at Edwards Air Force Base in California, mission control's Baline Hammond radioed that it was "a great ending to the new beginning." The astronauts launched a communications satellite, did scientific experiments, and tested the more than 400 changes made in the shuttle and its launch system since the *Challenger* explosion. Commander Rick Hauck SM '66 said he has never seen a ship so free of problems.

New shuttle in works

Construction on the replacement for the *Challenger* space shuttle is approaching the halfway mark. Engineers said the new shuttle will look like the old one, but will include all the design changes that were prompted by the *Challenger* explosion. A name for the craft will be selected next May from entries submitted by schoolchildren.

Court to rule on black lung payments

The fate of black lung disability payments for thousands of coal miners is in the hands of the US Supreme Court. Lawyers for the miners yesterday told the justices that arbitrary standards were used to decide who received benefits. A lower court has ordered the Labor Department to review claims of miners who were unfairly denied benefits. Coal mine operators said that ruling could cost the industry more than \$13 billion in additional benefits.

Girl is shot at school

There has been another shooting at an elementary school. Yesterday, it happened in Mascotte, FL, where a gunman wounded a third grader as she took part in an outside physical education class. Authorities said the man apparently had been hiding in the brush before he jumped up and shot nine-year-old Leah Wilbanks in the arm and chest. She is in stable condition.

Tyson goes on rampage

The police chief of the town where boxer Mike Tyson lives said the heavyweight champion did nothing wrong when he hurled furniture through the windows of his mansion. The Bernardsville, NJ, police chief said Tyson's wife, Robin Givens, called police when her husband went on a rampage. Two New York papers are reporting that the boxer's fit was sparked by remarks his wife made in an ABC television interview, in which she said it was frightening to live with Tyson.

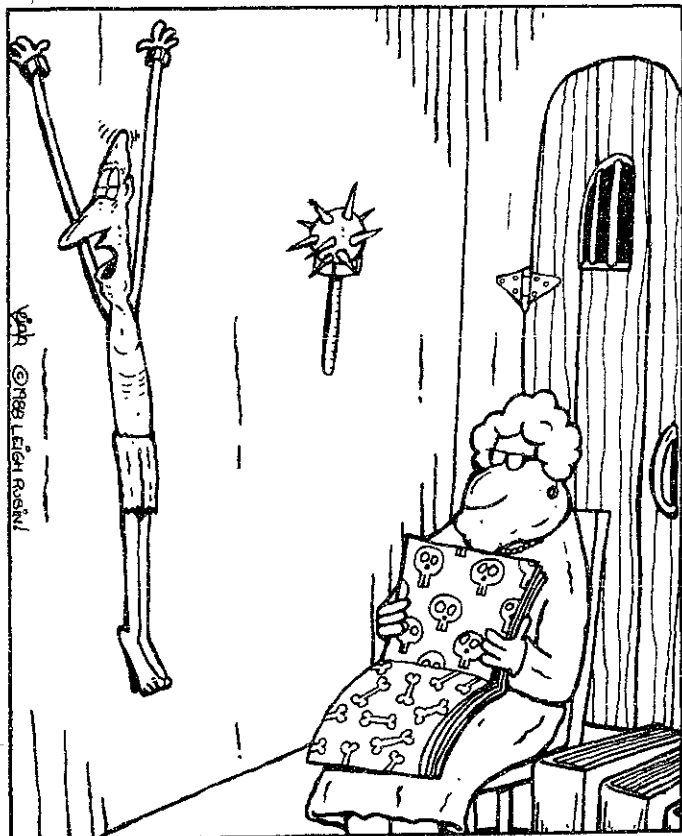
Campaign

VP debate set for tomorrow

Scheduled for tomorrow night is the one and only debate between the vice-presidential candidates. Democrat Lloyd Bentsen tossed a football yesterday with some former college athletes in Austin, TX. The Texas senator declared himself relaxed and ready for his face-off in Omaha, NE, with the Republican ticket's number-two man, Indiana Sen. Dan Quayle.

Rubes®

By Leigh Rubin



"No more! No more! I can't take it! Not another book of wallpaper samples!"

Weather

October Almanac

October is the month which finds us starting to slip back into a stormier weather pattern. Pressure differences will begin to increase, with the high pressure areas showing higher pressure than during the summer, and the low pressure areas appearing deeper. The average "normal" high for the month is 63.2°F and the average normal low is 47.5°F — giving a mean temperature for the month of 55.4°F. Normal precipitation for the month is 3.14 inches.

The full moon will occur on the 24th. In Indian folklore, this is the "Hunter's Moon." Jupiter brightens this month — surpassing Mars as it rises in the mid-evening.

Today, low pressure will spread rain into New England as it moves north-northeast along a frontal system located just off-shore. An arctic front will sweep across the area Wednesday morning, ushering in very chilly weather.

Tuesday: Mostly cloudy with rain and rain showers. Winds northeast 10-20 mph. High 53-56°F.

Tuesday Night: Rain tapering to showers. Winds becoming north 15-20 mph. Low 48-53°F.

Wednesday: Variably cloudy with showers, windy, and turning chilly.

Thursday: Partly cloudy and continued chilly. High 48-55°F. Low 36°F.

Forecast by Michael C. Morgan
October Almanac and Statistics
by Edward Nelson

Compiled by Niraj S. Desai

opinion



Column/David Gold

Business belongs in space

American astronauts are back in space again. Like many others, I experienced a sense of relief and elation after those infamous words that marked the doom of *Challenger*, "Go at throttle up," were spoken, and *Discovery* kept going strong. It has been a long time, too long, since Americans have been in orbit.

But NASA must be certain not to forget the lessons that *Challenger* taught. As a result of the *Challenger* a close look at America's space program was taken. The results of this examination were changes in space policy, law, and management.

Of the changes that were made the most important is that NASA no longer has a government forced monopoly over space launch services in the United States, and in fact NASA will no longer launch commercial satellites of any kind. This has finally opened the way for commercial launch services. It is amazing that the largest free market country in the world did not see the need or the value of space commercialization until after such a catastrophe. And even now the drive for commercialization comes more from a desire to alleviate the pressure on the shuttle rather than from the merits of commercialization itself.

NASA should not be in the business of doing mundane things, and launching of commercial satellites has certainly become commonplace. Rather, NASA should be pushing back the frontiers of space, doing risky things that have never been done before and show no immediate possibility of profit. If someone can make money by performing a service in space then there is no reason why NASA should be involved in such an area. The free market is a

powerful tool that can be used to help maintain America's preeminence in space.

The shuttle is the leading edge in space flight, and should be NASA's primary, although not exclusive, launch vehicle. However, many years in the future shuttle flights will become safer, more common, and even profitable, just as the launching of expendable vehicles has become. At that time it will be appropriate for private industry to begin to take over the shuttle industry, and for NASA to move on and continue to push back the frontiers of

space.

Years from now historians will look back at the *Challenger* as a critical turning point in the American space program. Either it will be the point at which America lost its roll as a leader in space, or it will be the start of an effective space policy geared towards commercialization that allowed the United States to once again lead the way in space. The choice is ours.

David Gold, a graduate student in the Technology and Policy Program, is a contributor to The Tech.

feedback

Voice of dormline was symbolic of MIT culture

To the Editor:

In Mark Kantrowitz's article ["Renovations Show Change," Sep. 27] he states that "the recording symbolizes the cold, inhuman nature of MIT." Well, I resent that remark! As the voice of dormline for the past four years or so, my term has represented the sort of anarchistic, bizarre and extreme life most MIT students come to know and love.

Who is the woman behind this "cold and inhuman" voice, behind this phrase that "evokes images of a hulking machine?" At the time of the initial recording, this woman was a boisterous sophomore and Senior House resident. With bleached blond hair and typically black attire, this chick is also known for her frenzied screaming off the band platform at Steer Roast, fake blood oozing from the corners of her mouth. The severe juxtaposition of this fun-loving punkette,

fulfilling such a traditional and fundamental role as the first voice anyone hears when they call into the MIT dormline system, epitomizes the MIT culture.

We all live the extremes at MIT: heavy partying, serious tooling, hacking, all-nighters, depressions, obsessions and rejoicing (i.e. after graduation) to name a few. The elimination of the dormline recording represents a rejection of all that is uniquely characteristic of MIT. With the new voiceless phone system comes the homogenization of the MIT student — the typical, the well-rounded, the humdrum, the mundane.

I suggest an old black dormline phone with a recording of "This is MIT. . ." be set up in the MIT Museum as a permanent shrine to the real MIT student — the masochist, the misfit, the nerd.

Jenny Hyman G

The Tech

Volume 108, Number 38

Tuesday, October 4, 1988

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The Tech (ISSN 0148-9607) is published Tuesdays and Fridays during the academic year (except during MIT vacations), Wednesdays during January, and monthly during the summer for \$17.00 per year Third Class by The Tech, 84 Massachusetts Ave. Room W20-483, Cambridge, MA 02139-0901. Third Class postage paid at Boston, MA. Non-Profit Org. Permit No. 59720. **POSTMASTER:** Please send all address changes to our mailing address: The Tech, PO Box 29, MIT Branch, Cambridge, MA 02139-0901. Telephone: (617) 253-1541. Advertising, subscription, and typesetting rates available. Entire contents © 1988 The Tech. The Tech is a member of the Associated Press. Printed by Charles River Publishing, Inc. Happy 21st Birthday to Ezra.



opinion

feedback

Space exploration is worth the risks

To the Editor:

I have actually finally sat down to write a letter to the editor of *The Tech*. There are a lot of issues on and off campus that I could write about: the Presidential election, pornography and sexual harassment, problems and changes in MIT education, the Student Center renovation, security on campus, the environment. Indeed, I have been tempted frequently to write a letter to the editor on various issues like these in the last few weeks. I usually have run out of enthusiasm to write it before I got around to it. But now I've got something to write about. I want us all to think about something different for a few moments.

Right now I am more excited than I have been in weeks. Months perhaps. I am so happy that I actually was tempted to stand up in Walker dining hall and announce it. I am writing this letter only half an hour after I saw it. *Discovery* was launched! After a time of confusion and second-guessing, we are once

again in space! This has got to be one of the most important moments in recent years. I think everyone should be as excited as I am. But the dozens of people watching the launch in Lobby 10 seemed to be afraid to cheer or clap until well after the solid booster separation.

Everybody needs high goals, both as individuals and as a society. One of the highest goals our society has set is the development of space. While the space shuttle was on hold, that mission was imperiled. Doubts cropped up about the purpose of going into space. The freshly realized dangers scared people. But space is a frontier. When the west was a frontier, it certainly was not entirely safe. Those who were afraid did not go west. But the pioneers did.

Yes it was dangerous. Many of them died — many hundreds of them. But it was worth it to them. The crew of the *Challenger* knew the trip was dangerous. But it was worth it to them, also. The others in the space program feel

the same way. We should not be scared away from this goal simply because it is dangerous.

Yes, we should try to minimize the dangers, and eliminate unnecessary hazard. But they cannot be totally avoided. Space is dangerous — and it will remain dangerous until we have totally settled it, just like the pioneers did in the West. We should remember the *Challenger* crew, but to live up to their standard we will have to continue the space effort.

I said that individuals also need high goals. This is often forgotten in a place like MIT where there is constant pressure on immediate concerns. But it is true. Every once in a while we need to sit back and remember why we are here. When we came here we all had the same goal. Perhaps those goals have changed since then. But there should still be some achievement that each of us is aiming for. A high goal that sets a purpose in life for us. Without that, we are simply running around in circles.

Whatever that goal is, it is likely that there are dangers involved in it. Failures may happen from time to time. But again, we should not be afraid to strive for that goal, even as we recognize the dangers. Occasional failure is a fact of life. But if the goal is high enough, it is worth the dangers. I think each of us should take a moment to think about ourselves, look up to the stars, and remember our goals.

Steve McDonald '84

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

Letters to the Editor are welcome. They must be typed double spaced and addressed to The Tech, P.O. Box 29, MIT Branch, Cambridge MA 02139, or by interdepartmental mail to Room W20-483.

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

Nightline's privacy won't be hurt by new phones

To the Editor:

Nightline was conceived as a confidential hotline available for any member of the MIT community. Anonymity was afforded by the telephone system, which had no easy way for determining where a call originated.

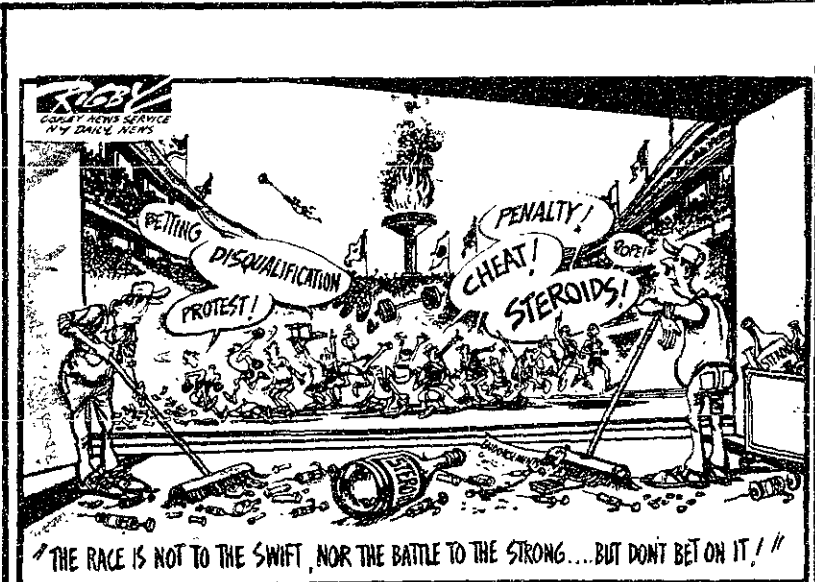
Now, there's a new telephone system. It's called the SESS, and it promises a plethora of new features and benefits for the MIT community. It now becomes possible for any digital phone to display the telephone number of the calling party. This display of the originating telephone number destroys the caller's anonymity.

Because anonymity is such an integral part of our operations, we have decided to remove the displays on our telephones. All of the displays provided in our new telephones have been removed, and will not be reinstalled in the

future. We wish to inform the MIT community about our action and its implications for the future. As with the old telephone system, all callers of Nightline will be completely anonymous.

Anything you want to talk about with us will be held in the strictest confidence. As before, we will be open from 7 pm through 7 am, seven days a week. There will always be two staffers on duty, a male and a female. We are not professionals, but students just like you. We are here to listen, anonymously. We hope any confusion which might have arisen out of the new telephone system is cleared up by this article. If you have any questions or concerns, feel free to call Nightline at either 253-7840 or our new number 253-8800. We're here to listen. Thank you.

The staff of Nightline



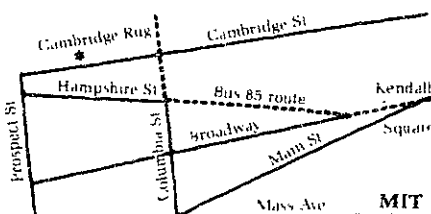
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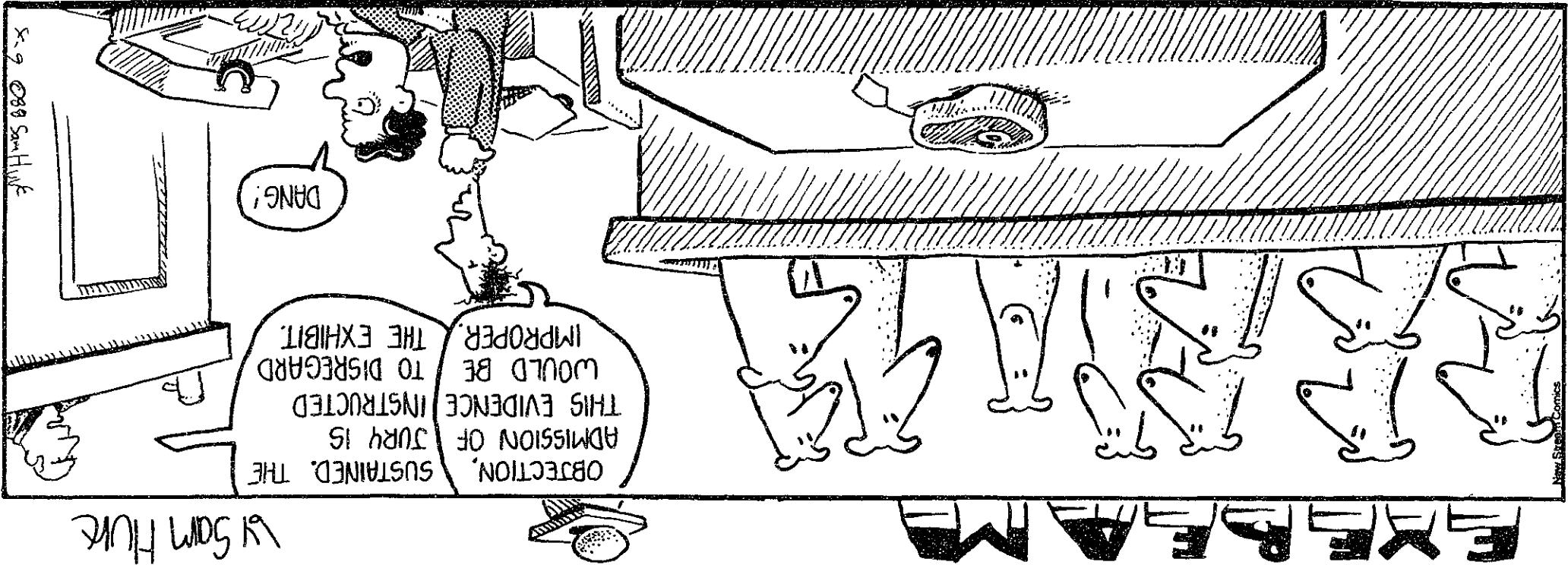
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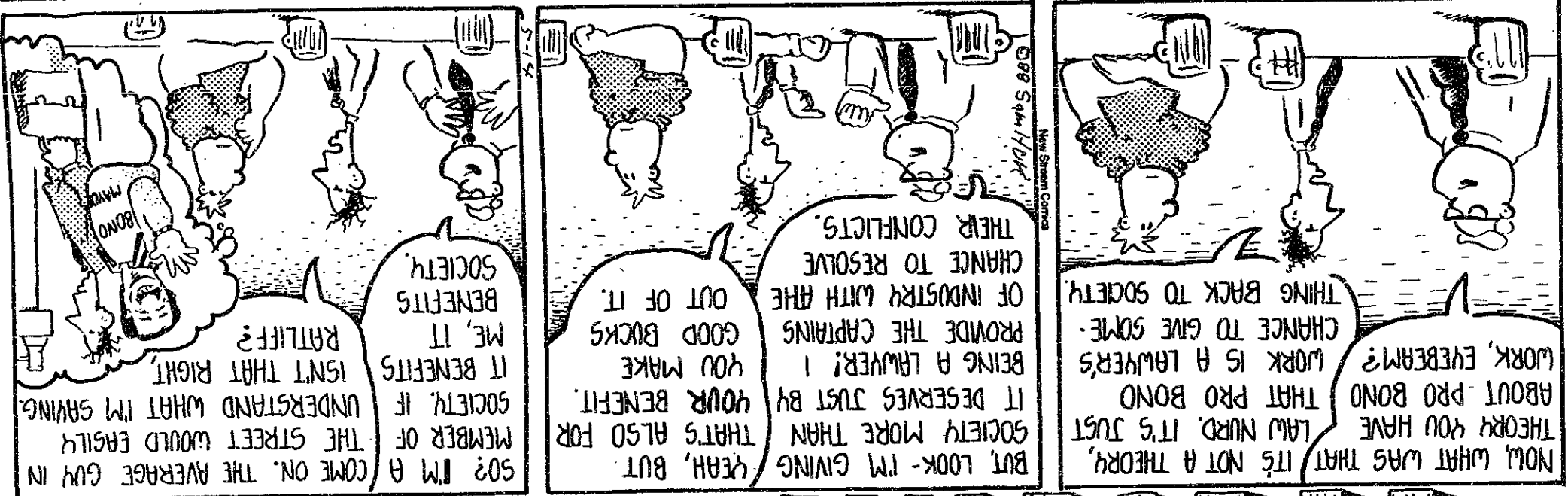
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Legal Problems? I am an experienced attorney and a graduate of MIT who will work with you creatively to solve these problems, answer your legal questions and provide legal representation. My office is conveniently located in downtown Boston just minutes from MIT via the MBTA. Call Attorney Esther J. Horwich at 523-1150.

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Men Against Sexual Assault

Monthly discussion group for concerned men on issues of rape and violence against women, the first Wednesday of every month from 7:30-9pm, beginning October 5. MIT Building E51, Room 218, (near Kendall Square T station). The sessions are supported by the MIT Office of Student Affairs and sponsored by MIT students and members of the Boston/Cambridge Men Against Sexual Assault (MASA), a volunteer organization working closely with the Boston Area Rape Crisis Center to stop rape and sexual violence in our communities. The first session will begin with a presentation of "Re-thinking Rape," an award winning film documentary. Discussion will follow. Other sessions will be devoted to discussions of rape, sexual violence, sexual harassment, pornography and rape, and other subjects. The discussion group is aimed at university students as well as the larger Boston/Cambridge area community. For further information, call Jeff at x3-2633.

The Tech Subscription Rates: \$17 one year 3rd class mail (\$32 two years); \$44 one year 1st class mail (\$86 two years); \$49 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.*

notices

Listings

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

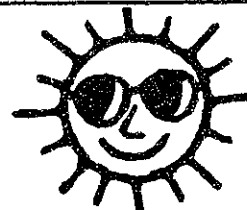
Announcements

Cameron Publishing Company announces a new **poetry contest** open to all. There is a \$1500 first prize plus other prizes. For contest rules, send an SASE to Cameron Publishing Company, 1109 S. Plaza Way #422, Flagstaff, AZ, 86001. The deadline for entry is November 10, 1988.

Howard Hughes Medical Institute is accepting applications for the **1989 Doctoral Fellowships in Biological Sciences**. The application deadline is November 14, 1988. For more information or applications, call (202) 334-2872 or write to Hughes Doctoral Fellowships, The Fellowship Office, National Research Council, 2101 Constitution Avenue, NW, Washington, DC, 20418.

The Newton Free Library will have **paintings** by Thomas Barron, Fay Grajower, and Arthur Yanoff from October 4-30. The library is located at 414 Centre Street, Newton Corner. For more information, call (617) 552-7145.

The MIT/Wellesley Upward Bound Program needs **Instructors and Tutors** to assist disadvantaged high school students in math, english, science, social studies, computer science, and foreign languages. For more information, call (617) 253-5124.



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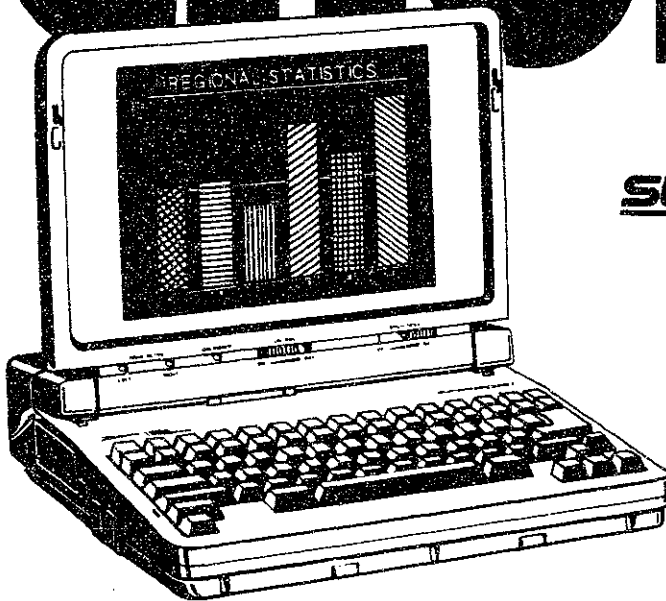
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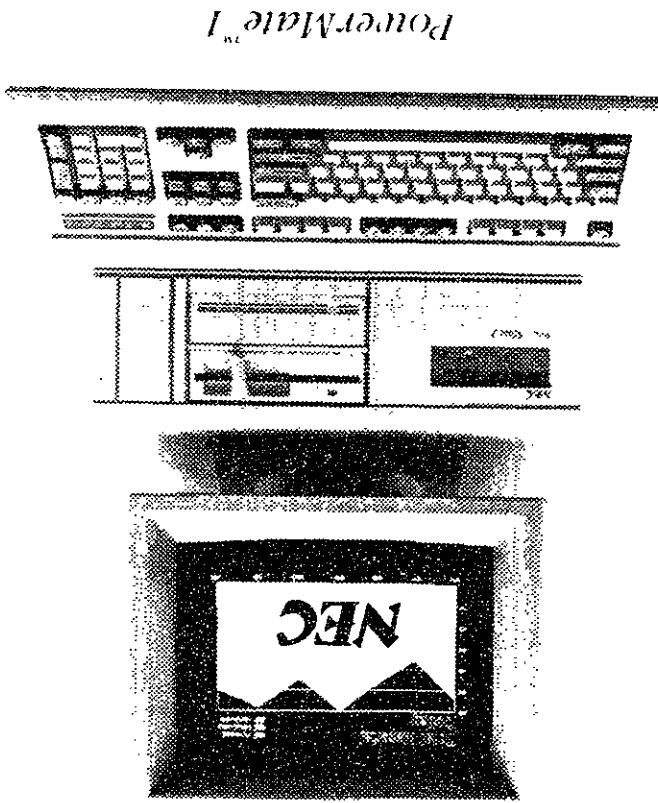
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notices

The Greater Framingham Area Veteran's Outreach Center is announcing the start of the New Rap sessions for Vietnam Veterans. These sessions will be held every Wednesday (except the third week of the month, when they will be held Thursday) at 7 pm. There is also a group for the wives of Vietnam Veterans. For more information, call 879-9888.

Would you like to give Relief Aid to hurricane victims in Jamaica? Contact John-Paul (x5-9518), Michael (x5-9515) or Wayne (x5-9256) for more information and drop-off points.

The National Consortium for Graduate Degrees for Minorities in Engineering, Inc., (GEM) is accepting applications for its 1989 Fellowship competition which will provide 150 awards to minority students in engineering. Applications must be received by December 1, 1988. For more information or for application materials, please write to GEM, P.O. Box 357, Notre Dame, IN, 46556.

The University of Massachusetts Medical Center has begun a new program to bring undergraduates into its laboratories. Fellowships are available for 5-10 month intervals. Deadline for application to the Spring-Summer 1989 program is November 15, 1988. More information and applications are available from the Office of Graduate Studies, University of Massachusetts Medical Center, 55 Lake Avenue North, Worcester, MA, 01655.

In an effort to inform students of their rights, the Office of Consumer Affairs and Business Regulation has prepared a pamphlet that summarizes your consumer rights. This is called "College Consumer." Copies of the college consumer guide should be available in the bookstore or the student center. If you can't find a copy, write the Office of Consumer Affairs and Business, One Ashburton Place, Boston, MA, 02108 or call (617) 727-7755.

Every Tuesday and Thursday from 11 to 3 pm surplus equipment is sent to the Equipment Exchange by departments in the institute for the purpose of making it available to any department or student by transfer. No funds needed. Thirty days after being advertised in Tech Talk the equipment is sold. NW30.

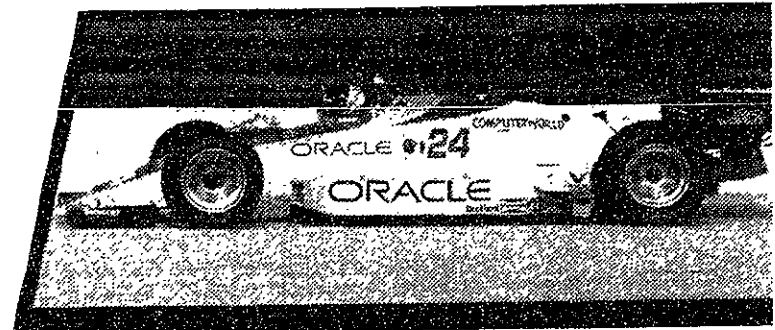
Are you concerned about your cholesterol level? If you have been told by your physician that your cholesterol level is mildly or moderately elevated, you may be eligible to participate in a study at Beth Israel Hospital that will determine the effectiveness of a new anti-cholesterol drug. For more information, call 735-3637.

The Beth Israel Hospital hosts a Rape Crisis Group on Tuesdays at 7:30 am for women who are experiencing disruption in their lives immediately following or up to six months after being raped. The long-term crisis group meets Thursdays at 6 pm. For more information, call (617) 735-4738.

The Epilepsy Association of Greater Boston's School Alert Program is looking for individuals who have epilepsy or their family members to talk with fourth grade students and school personnel in their local community about epilepsy. For more information, please contact Gayle Daley, School Alert Coordinator, Epilepsy Association of Greater Boston at 542-2292.

For students searching for ways to stretch the shrinking dollar abroad, the Council on International Educational Exchange announces the 1988 Student Travel Catalog. The Catalog is one of the most comprehensive, FREE budget travel guides available. It may be obtained from CIEE, Dept. STC '88, 205 East 42nd Street, New York, NY 10017, (212) 661-1414 or 312 Sutter Street, San Francisco, CA 94108, (415) 421-3473. Enclose \$1 for postage and handling.

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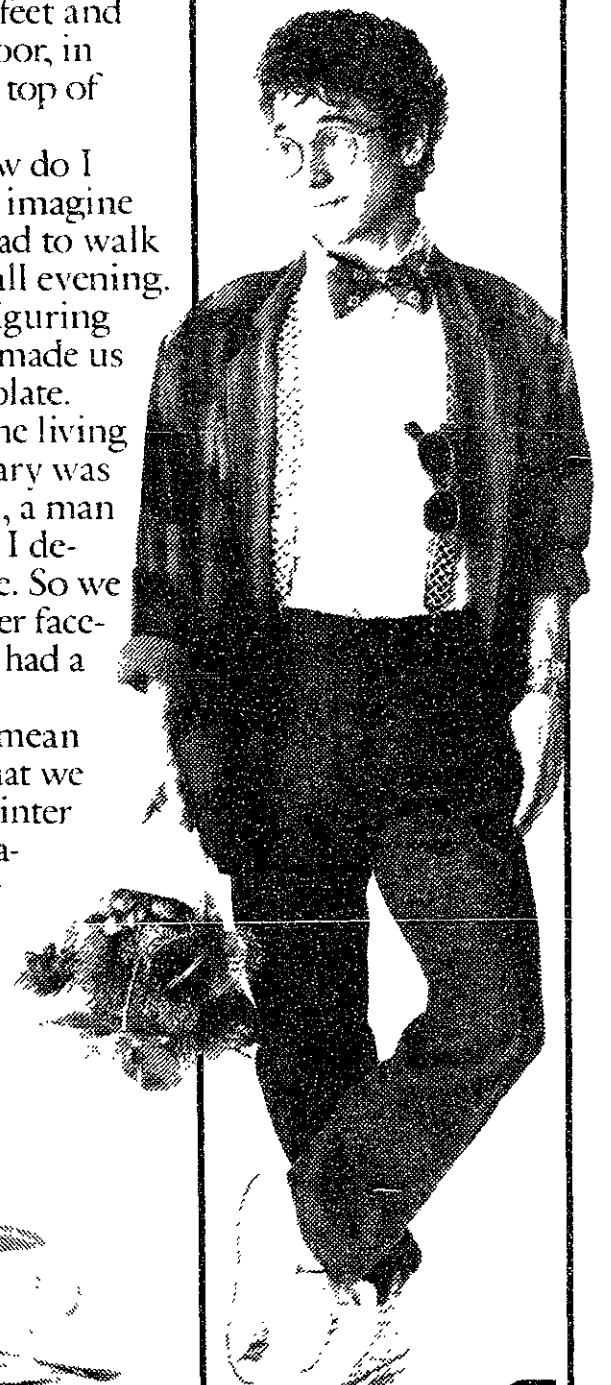
Intro. to The Short Story

When Carla told me that my date was a little short, I thought she was talking dollars and cents, not feet and inches. So there I was at the door, in my spiked heels, staring at the top of my date's head.

All I could think was, how do I get myself out of this? I could imagine how my legs would ache if I had to walk around with my knees bent all evening. So to stall for time, while figuring out how to fake malaria, I made us some Double Dutch Chocolate.

When I brought it into the living room, I discovered that Gary was a chocolate lover too. Ahh, a man after my own heart. Okay, I decided I'd give him a chance. So we sat down and saw each other face-to-face for the first time. He had a nice smile.

After some small talk—I mean conversation—I discovered that we both love Updike, hate the winter weather, and both have miniature schnauzers. So, we made a date to introduce Shadow and Scharzi next week.



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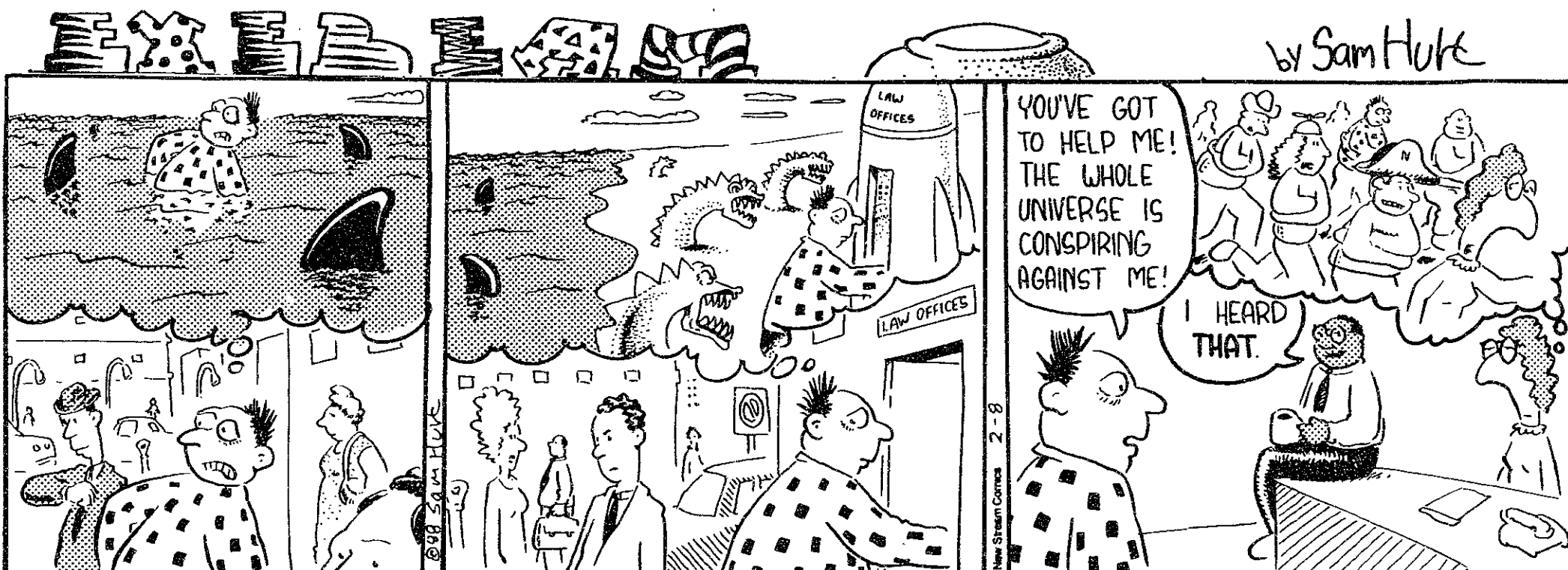
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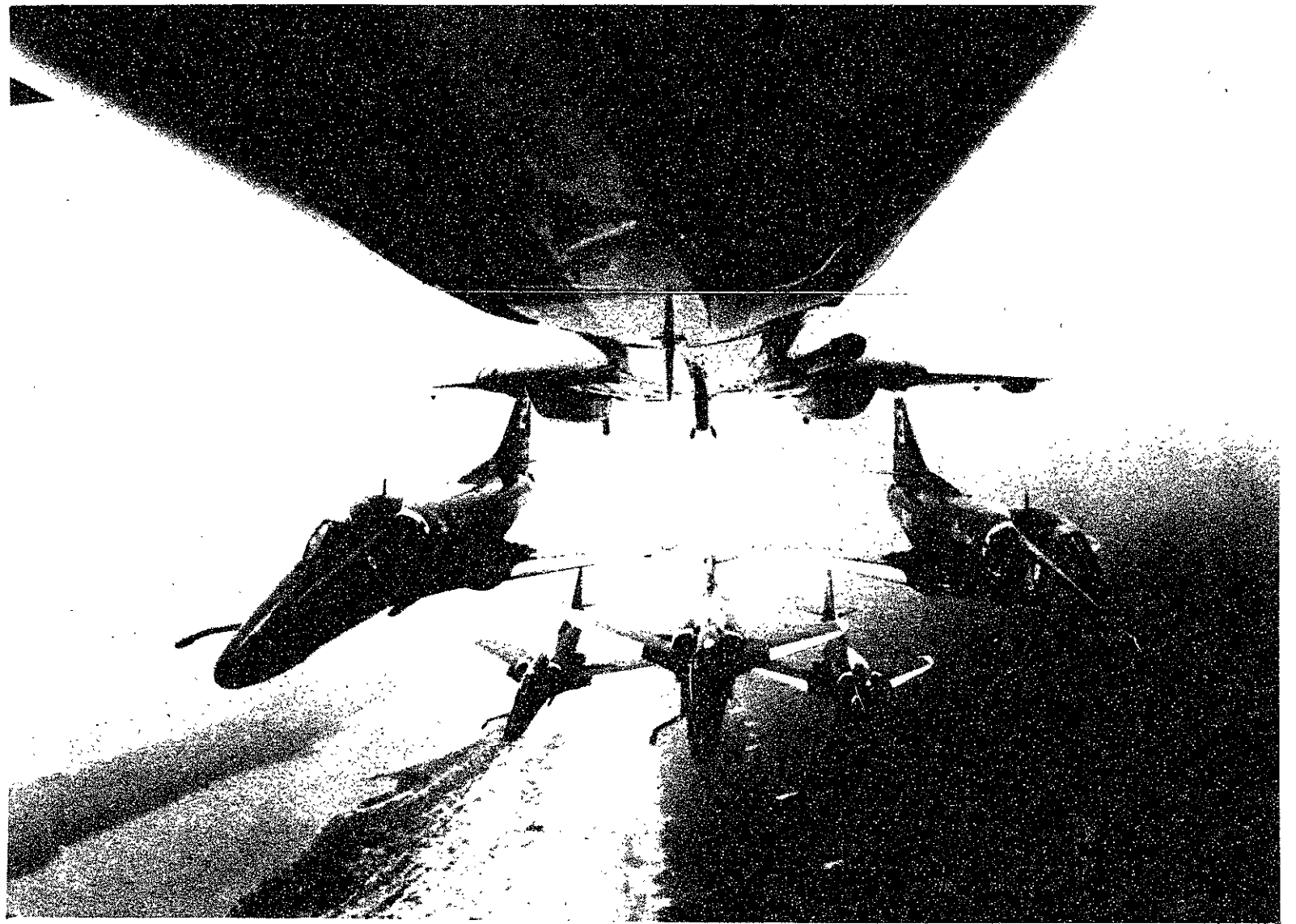
Filmed in Omnimax by Greg MacGillivray. Opens today at the Mugar Omni Theater, Museum of Science, Science Park. Continues through March. \$5 general, \$3 seniors & children.

By PETER DUNN

IMAGINE THE BLUE ANGELS in the photograph at right. Now imagine experiencing them in full-color, projected on a huge, curved screen that is 76 feet in diameter and fills both the viewer's horizontal and vertical peripheral vision. The Omnimax film "Speed," which opens today at the Museum of Science, does just that and is certainly the best and most entertaining way to make your stomach queasy short of boarding a speeding race car or a roaring jet airplane.

On the surface "Speed" is a simple account of the steps in man's ever-increasing rise in rapidity: from the bicycle to the car to the sound barrier to space and beyond. Greg MacGillivray's film could easily have fallen into a number of traps, but it didn't. The film might have been a dry documentary overblown to spectacle on the huge Omnimax screen. MacGillivray might have fallen into the clichés of this genre of film, quickly boring the audience with repetitive, stomach-churning extravaganzas.

But what raises "Speed" above the stereotype is MacGillivray's ability to evoke several emotions in exploring the scope of his subject matter: the humor as the audience watches a young Billy Vukovich, future Indianapolis 500 champion, hot-rod out of the reach of the police along the back roads of Fresno, California; the nostalgia as stock newsreel chronicles the quest to break the sound barrier; the majestic brilliance of jet powered drag racing. While the 33-minute long film is too short to amount to more than a mere overview of man's progress in precipitousness, MacGillivray does manage to instill the wonder



and excitement.

"Speed" still contains some of the clichés — a ride on a rollercoaster, panoramic views from a sailplane — but MacGillivray manages to subdue the overemphasis on Omnimax, all-around-screen spectacle and instead concentrate on employing the effect to more subtle use, for example in changing the point of interest on the immense screen.

The film's only failing is in its final seg-

ment where MacGillivray attempts to present a simulation of speed-of-light travel. This sequence has no basis in reality and too abruptly shifts the film from down-to-earth tangibility to speculative and uninteresting camera tricks. The sequence shows some promise in that it is the first attempt at special effects on the Omnimax screen (where the tolerance limits are far stricter than either 35 mm or 70 mm film because of the expansive projection size)

but nevertheless hardly seems appropriate to *Speed*.

"New England Time Capsule" is also presented in conjunction with "Speed" and is a nice, 5-minute introduction to New England for those from out of town. "Time Capsule" relies more heavily on spectacle than does "Speed" but this seems more appropriate in a brief view of the panorama of New England.

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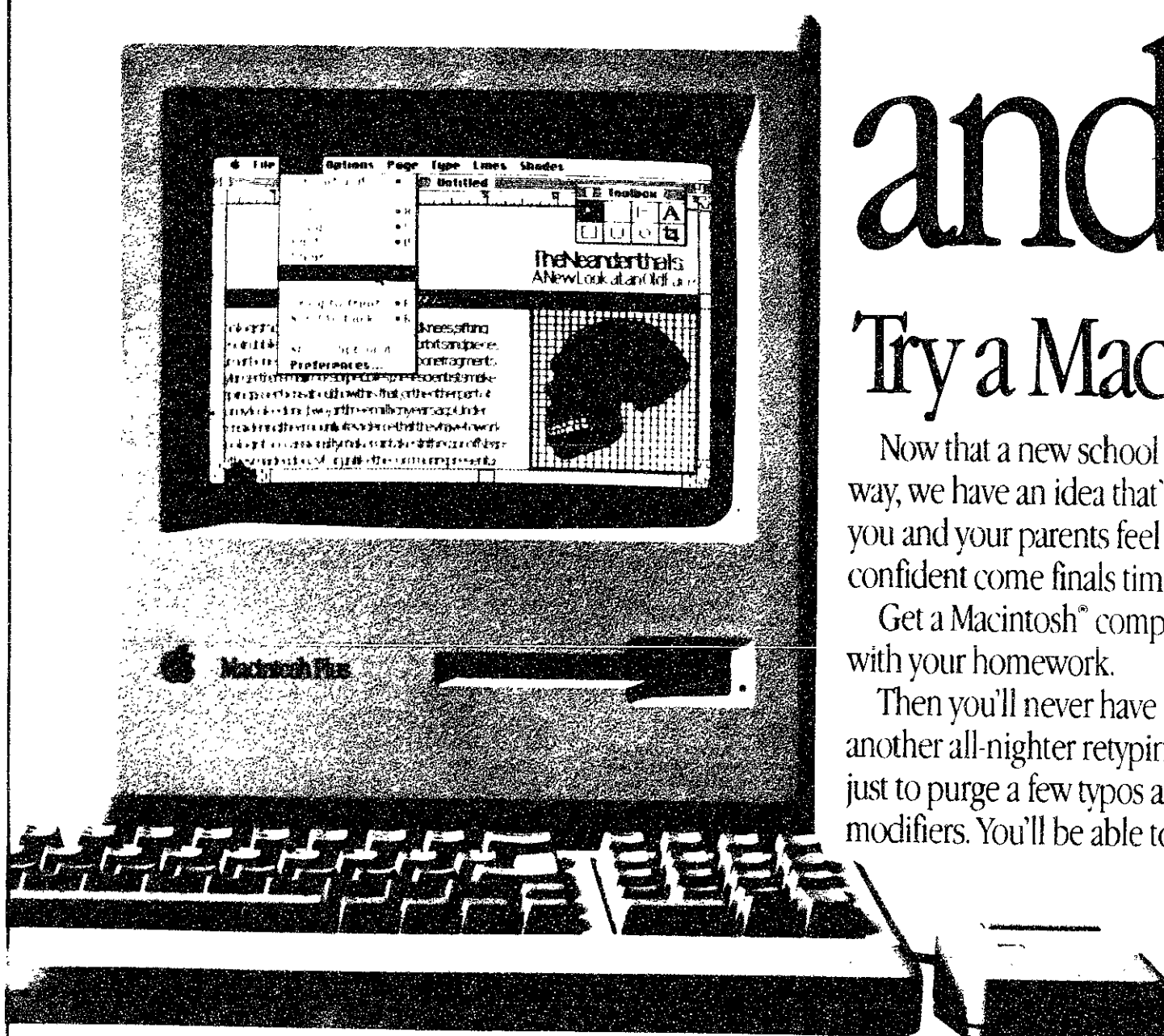
Now that a new school year is under way, we have an idea that'll make both you and your parents feel a bit more confident come finals time:

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'89 IAP Guide Preview

SPECIAL
PULL-OUT
SECTION



M.I.T.
INDEPENDENT
ACTIVITIES
PERIOD

What's IAP?

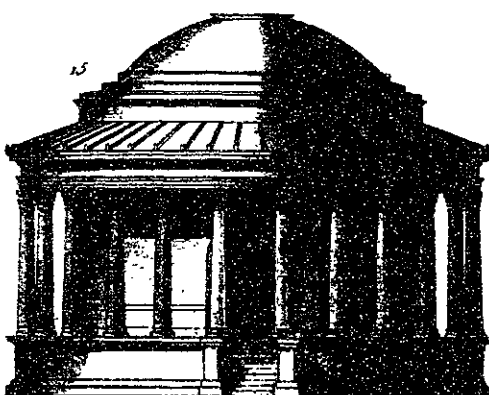
The Independent Activities Period (January 11 - February 1, 1989) is both a break from the rigors of MIT's regular academic semesters and an opportunity to explore alternative kinds of learning, pursue independent projects (including recreational ones!), and, in general, write your own ticket for a combination of experiences that will enrich your education.

What's this Preview for?

It's meant to give you an early, enticing glimpse of some of the activities that will be offered in IAP '89. The Preview offers only a small sampling of what will be available during IAP. You'll receive a full account of all 600+ scheduled activities in the IAP '89 Guide, which comes out in early December. What we want you to know about now is a number of relatively large-scale activities — lectures and film series, intensively conducted mini-subjects, labs, etc. — which will meet at least three times. Some of them carry academic credit or the option of credit. Many don't. The idea is to let you begin planning now for next January, with some sense of the larger horizon. One of these activities (or a combination of two or three) may become the center of your total IAP program.

Freshmen! Freshwomen!

Take a good look at what's available at MIT before you make travel or employment plans for the period from Christmas vacation through February 1. You'll soon be meeting with your advisor to work out a tentative IAP plan. Use this Preview. Talk with faculty and upper-classmen. Drop by the IAP Office, 7-103, to ask questions and look over copies of the IAP Guide from previous years. Plan for IAP now.



Freedom

Remember: What you do during IAP is up to you. (That's why it's called "independent.") Maybe you'll study. Maybe you'll ski or skate. Maybe work, travel, talk, sleep. Even read! There's no prescribed set of expectations you're supposed to meet, except to make IAP worthwhile for you, in your own way. But do try to consider the full range of options open to you.

If you find something in the Preview that appeals to you...

In most cases, just take note of it and wait for the December Guide to give you details on how to sign up. A few of the activities presented here list a contact person for immediate sign-up.

For policies regarding credit, tuition, room and board, veterans' benefits, special students, and student exchanges, consult page 48 of the MIT Bulletin.

If you want something that's *not* in the Preview...

If you have an idea for an independent study or research project, contact a faculty member in the field. If you'd like to organize your own activity, let the IAP Office know about it, 7-103, x3-1668. We'll tell you how to go about doing that or you can talk to the relevant IAP departmental coordinator. There's money available to help fund your activity. The deadline for funding and publicizing an activity in the IAP Guide is Tuesday, November 1.



Aeronautics and Astronautics

History of the U.S. Space Program

Prof. Leon Trilling will lead this seminar examining the motivations and the history of the US Space program. Participants will look at the basic technologies involved and discuss the space program as a vehicle for scientific research and human adventure, and also as an instrument of cold (and hot) war and of economic and social innovation (especially in communications). This seminar will require a term paper and will offer six units of credit. The tentative schedule is two hours per day from January 17 to 27.

Introduction to Engineering Drafting

Students will become familiarized with the fundamentals of drafting for engineers with practical examples from the field of aerospace. They will be introduced to concepts of drawing, including 2-views, 3-views, isometrics, and perspective drawings. Techniques covered will include pencil, pen, and possibly computer drawing. Contact Prof. David Akin for more information.

Anthropology/Political Science

Change from Below in Central America

Rather than view events from the standpoint of national governments or international relations, we will discuss forces for change that come from popular organizations within each country. Included among these are labor unions, peasant organizations, student and women's groups, and religious organizations. This approach will provide a deeper understanding of the sources of the present turmoil. It will also give a more realistic way of thinking about the future of the region. There will be four 90-minute sessions during the week of January 23. Profs. Jonathan Fox and Martin Diskin, instructors.

Architecture

Internship Program

Work in an architect's office to gain experience, improve your skills, and see the inner workings of everyday architectural practice. You will earn six units of academic credit but no salary. Internship appointments will be made by Dec. 11, based on your choice among participating workplaces. Past internships have been in small, medium, and large firms, design/build firms, state agencies, and community-based agencies which create low-income housing. For more information, contact Linda Okun, 7-303, x3-7791.

Athletics

The Athletics Department will offer a full program of physical education subjects, meeting four hours per week. Physical Education credit is available. Registration will be on Monday, January 9, at 10:30 am in Rockwell Cage.

- ☐ Aerobic Dance
- ☐ Badminton
- ☐ Basketball
- ☐ Stretch, Strength, and Low-Impact Aerobics
- ☐ Ballet and Jazz
- ☐ Folk Dance
- ☐ Fencing
- ☐ Exercise Fitness
- ☐ Hockey
- ☐ Box Lacrosse
- ☐ Pistol
- ☐ Skating
- ☐ Figure Skating
- ☐ Skiing
- ☐ Squash
- ☐ Beginning Swimming
- ☐ Table Tennis
- ☐ Advanced Tennis
- ☐ Weight Training

Art

Art Classes

The Student Art Association will offer a wide range of classes in drawing, painting, crafts, mixed media, ceramics, photography, and glassblowing. Most classes meet once a week. For more information, contact Ed McCluney, W20-429, x3-7019.

Biology

Human Genetics

This six-unit subject at the advanced undergraduate level will meet three times per week during IAP. Organized by Prof. Nancy Hopkins and Dr. Richard Erbe of Massachusetts General Hospital. Other MIT faculty will lead the sessions. Check the *Guide* for details.

Chemical Engineering

Introduction to Computer Methods (10.001)

Introduction to the use of computers in chemical engineering and to the computer environment on Athena. Exposure to methods for text and picture creation and manipulation, symbolic manipulation, and numerical programming. Elementary methods for numerical analysis are presented. Prof. R.C. Armstrong, instructor. Schedule to be arranged.

Chemistry

Basic Machine Shop

You will learn the skills needed to operate a lathe, drill press, miller, and other common machines encountered in a machine shop. This course will meet two hours per day for ten days. Limited enrollment. John Annese, instructor.

Lab in Protein Biochemistry (5.315)

Profs. Alexander Klibanov, John Essigmann, and Steven Tannenbaum will lead this course introducing undergraduates to modern experimental methods of protein chemistry. They intend to cover the fundamentals of experimentation in protein and enzyme biochemistry and to include various methods of isolation, purification, and characterization of proteins. This course will supplement 5.310/5.311 and will be offered for six units of credit. It will meet all day on Tuesdays and Thursdays throughout IAP.

Review of Organic Chemistry I (5.12)

A review of 5.12 (Organic Chemistry I) for those who plan to take 5.13 this spring and who took 5.12 in the spring of 1988 (or earlier). Approximately four sessions will cover structure and stereochemistry, organic acids and bases, displacement reactions and mechanisms, and chemistry of the carbonyl group. Prof. F. D. Greene, instructor.

Civil Engineering

Garage/Park at Post Office Square

If sufficient student interest exists, Prof. Robert Whitman will offer a "capping subject" about a development in Post Office Square in the heart of the financial district that is now occupied by a dilapidated two-story garage. This garage is to be removed, and a seven-level underground garage constructed with a public park at the surface. In the proposed capping subject, there would be introductory lectures (and a site visit) to define the nature and scope of the overall project, and to describe other major underground parking projects in Boston. Teams of undergraduate and graduate students would then look at various aspects of the project and prepare papers on general topics such as the relative merits of top-down vs. tied-back construction for the excavation, and impacts on the city during construction. They would also analyze specific technical questions such as predicted lateral earth pressures, design of reinforcing steel for slurry wall, estimating quantity of water flowing into the excavation, and the number and location of access ramps into the garage. There will be a final oral presentation/defense of conclusions and an opportunity to compare proposals with actual solutions being adopted. The course will meet for one or two weeks during IAP. Academic credit to be arranged. If you are interested, contact Prof. Whitman, 1-342, x3-7127.

Earth, Atmospheric and Planetary Sciences

Field Geology II (12.152)

Geological field studies in selected areas of California and Nevada to develop experience in recognition and mapping of metamorphic, igneous, and sedimentary rocks of structurally complex areas. Limited enrollment. Prerequisites: 12.151 or 12.051 in fall semester. Participants will pay approximately \$150 to cover food and lodging. It will run from January 3 to 27. For more information, contact B. C. Burchfiel, 54-1010, x3-7919 or L. McKennan, 54-1118, x3-2819.

Astronomy Field Camp at Lowell Observatory

Undergraduates will learn how professional astronomers carry out their research at a major observatory, by participating in a UROP-style research project under the supervision of a Lowell Observatory staff member. The program will take place for three weeks during IAP. The first two days will be devoted to meeting project advisors and learning about the research facilities at the observatory. Prerequisite: 12.117 or equivalent. Sign up with Ginny Siggia, 54-426, x3-6315. Prof. Jim Elliot, instructor.

Electrical Engin. and Computer Science

The department will offer a variety of three-unit courses during IAP. They are designed to be either precursors or extensions of the department's core courses. For further information, contact Prof. Martin F. Schlecht, x3-3407.

VLSI Design and Layout

Participants will have an opportunity to learn the basics of integrated logic circuit design and layout. After a brief introduction to design methodology, computer-aided design tools will be used to complete several example digital circuits. Enrollment is limited. 6.002 or equivalent is required.

Physical Interpretation of

Vector Analysis for Electromagnetism

This course is an in-depth review of the vector analysis required for studying electromagnetism. The physical meanings for the integral and differential laws used to express Maxwell's equations will be discussed. The rules of vector analysis will be studied. The course is intended for, but not limited to, students planning to take 6.013.

In-Depth Application of 6.013

to Real World Examples

This course is intended for students who have completed 6.013 or its equivalent and would like to study the examples and demonstrations used in the course to a greater depth. Basic principles will be used to study the design issues and engineering approximations needed for these and other real world problems.

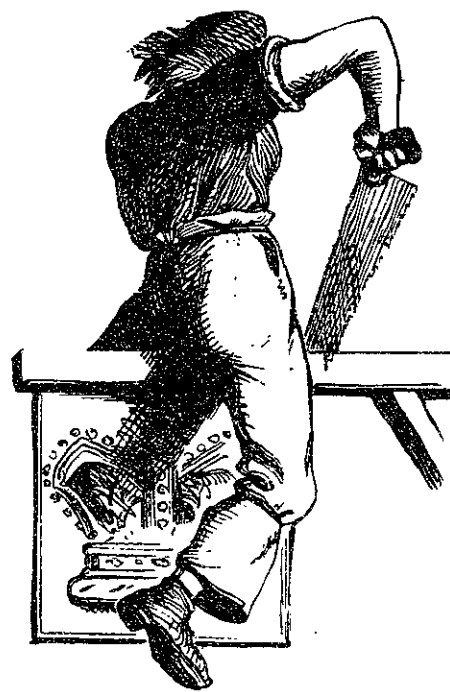
How to Use Laboratory Equipment

for Electronics

For those who have never had an opportunity to use an oscilloscope, a current probe, a network analyzer, etc. The course will provide hands-on experience with all of the standard laboratory equipment that is used to build and study electronic circuits.

Research Program in EECS

Ten to fifteen seminars will be given by the department faculty describing their research programs. Relevant literature will be distributed and discussed.



Engineering

Engineering Design Workshop

Profs. Daniel Hastings and Leon Trilling will lead this workshop in which participants will design (and when possible, build a working model of) a useful device. Last year, the workshop members designed a set of devices useful to a handicapped person confined to a wheelchair (e.g., door-openers, page-turners, devices to get a wheelchair up or down a curb). The class is divided into teams of four to six students; each team does a design; reports daily on progress and presents both an oral and a written final report; a graduate student or faculty member acts as an advisor to each team. Open to freshmen and sophomores, with priority for enrollment to Second Summer Program participants. The workshop will be scheduled for January 17 to 27.

Foreign Languages and Literatures

Four intensive introductory language subjects will be offered during January. They will meet daily and carry twelve units of credit. Watch the *Guide* for information on preregistration.

Intensive Japanese I (21.250)

Introduction to modern standard Japanese. Emphasis on developing proficiency in speaking and listening, using basic grammar and vocabulary. Development of basic skills in reading and writing. Language lab attendance required. Preference given to freshmen, sophomores, and juniors. No listeners.

Intensive Spanish I (21.175)

Introduction to understanding, speaking, reading, and writing Spanish. Maximal use of fundamentals of grammar in active communication. Language lab attendance required. Preference given to freshmen, sophomores, and juniors. No listeners.

Intensive German I (21.231)

Introduction to understanding, speaking, reading, and writing German. Course will emphasize the use of fundamental grammar in active communication. Language lab program supplements class work. Preference given to freshmen, sophomores, and juniors. No listeners.

Intensive Russian I (21.261)

A comprehensive course covering the alphabet, handwriting, the Russian sound system, all verb tenses, and a major portion of the declension of nouns and adjectives. For students with no previous background. Extensive use of Russian in class, daily homework, and language lab assignments. Readings on culture and geography. Students completing the course will qualify for second semester.

History

The Experience of War and Battle on Film

We will examine how the experience of war and battle has been depicted in movies over the past 50 years. We will look at five to six films and draw conclusions. Each film will be followed by a brief talk or discussion. Prof. David Ralston, instructor.

Literature

Five Funny Films

The Literature faculty will show five film comedies during IAP, each introduced by a member of the faculty who will discuss such formed and thematic issues as the film's place in the history of film comedy, comic acting styles, comedy as subversion, and reconstruction of received social values. Prof. Irene Tayler, coordinator.

Management

Organizational Reality

(or What You Don't Know Could Kill You)

What will your life be like after MIT? Most MIT graduates will spend a major portion of their lives in organizations. Will you know what you need to know when you arrive at the door of your organization? Do you know what you will need to know to thrive, or even survive?

Do you know:

- How salaries and promotions are determined?
- How technological ideas become commercial products?
- How to supervise, and how to be supervised?
- How groups work?
- How hierarchies are organized — on paper and in reality?
- How to handle ethical dilemmas?

This new, intensive IAP offering is designed to help seniors from all MIT departments to ask and answer these and many related questions now, while they still have time to prepare for the "real world."

We will meet over a three-week period for a series of talks, conversations, panel discussions, and group projects with some of the Sloan School's top faculty, with alumni, with young as well as experienced managers. There will be assigned readings. Regular attendance will be expected. Credit will be offered.

Enrollment will be limited. Those who let us know of their potential interest early will receive priority, and will be invited to help us determine such issues as scheduling, amount of reading, amount of credit, etc. To let us know, contact the Office of Undergraduate Programs in the School of Management, E40-148, x3-8614.

Do it now.

A Brief Introduction to Law

Now in its nineteenth year, this popular series presents and examines fundamental concepts and doctrines of Anglo-American law. Classes include Socratic analysis of cases together with informal discussion. Provides background for law-related subjects at MIT, and insight into the legal dimension of our daily lives. No registration required.

Interactive Learning for

Improving Corporate Management

Come participate in hands-on simulation games, computerized case studies, discussions, lectures, and other exercises designed to increase your intuitive understanding of complex social and economic systems. Will cover topics such as the causes of failure in a rapid growth, highly successful service business, production-distribution dynamics, converting to new technologies, integrating innovative human resource strategies with organizational growth, organizational learning. No previous computer experience is needed. Any session can be taken alone, although there will be a linkage of concepts throughout the four sessions. This course will be led by Profs. Jay W. Forrester and John Sterman and will meet Monday-Friday, January 23-27.

Materials Science and Engineering

Growth Atom by Atom

This activity is proposed as a continuation of last year's very successful IAP symposium "From Growing Materials Atom by Atom to Looking at Materials Atom by Atom." While we focused in 1988 on characterization, this year we propose to concentrate on "Growth Atom by Atom." The purpose of this symposium is to provide a basic, in-depth review of growth techniques at the forefront for what we call "Artificially Structured Materials," and present them in the context of research being carried out at MIT and hence accessible to the curiosity of students. By "Artificially Structured Materials" we mean materials whose atomic architecture has deliberately been altered by man to create novel materials properties. A good example of such structures are quantum wells, which consist of a stack of very thin films (called a "superlattice"), each film being of the order of 1 to 7 nm thick, where the mobility of electrons reaches values that could not be attained in materials, unless they are part of a superlattice. Each morning, a specialist will present his or her understanding and scientific perspective on one of the state-of-the-art techniques to grow materials with control on structure and composition at the atomic scale. Coffee and pastries will be provided, and the format will be as relaxed and interactive as possible so that students will get to know the speakers and contribute to the presentation through their questions. Several speakers will be selected from MIT's newest and youngest faculty, and there will be the possibility to visit their laboratories in the afternoon. The course will meet daily for one week during IAP. Prof. Nicole Herbots, coordinator.

What do:

Doc Edgerton's "Bones"
Shirley McBay's "McBayonettes"
and
Jay Keyser's "Cool Jazz"
all have in common?

Answer:

They've all performed at Cafe IAP!
Come and see our new line-up
for Cafe IAP '89
in January.

Glassblowing Studio

This studio will familiarize students with hot glass working techniques used to make hand-blown vessels, providing a unique interactive experience with glass and refractory materials. Learn how skill changes the properties of materials. Students will obtain actual "hands-on" experience with glass and glass working equipment including melting furnace, reheating furnace, and annealing oven. The seminar will run from the first to the last day of IAP for four to six hours per day with individuals signing up for time slots within those hours. Prof. Michael Cima, instructor.

Toolmaking by the Blacksmith

Traditional blacksmithing techniques will be used to make simple tools, such as punches, chisels, and small knives. Forging, hardening, and tempering of tool steel will be explained and demonstrated at the initial meeting of the activity. Participants will then make simple tools of their own design. Depending on enrollment, each person may be limited to a single laboratory session. The tentative schedule is Wednesday, January 25 to Wednesday, February 1, (times to be arranged). Limited enrollment. Preregistration required. Sign up with Marie McTighe, 13-5062. Prof. Samuel Allen, instructor.

Mathematics

Interesting but Basic Math

The department plans to offer a lecture series given by members of the faculty on various topics that are interesting and accessible to students without a lot of math background, but are usually not touched on in the basic math courses. We expect to have about nine 1½ hour lectures. Students who attend for credit will be given some reading and a homework assignment on each lecture. This will probably be offered for four units (representing a level of work per week a little higher than a regular term twelve-unit course). All students are welcome, whether for credit or not. We hope freshman wanting to explore their own interests in math would find this especially exciting. Prof. Mark Haiman, coordinator.

Mechanical Engineering

Human-Powered Hydrofoil

A student-led group is designing and building a human-powered hydrofoil with the aim of beating the existing waterspeed record for human-powered boats. Some construction should be under way in IAP, and there should be the possibility of some rather specialized work in some areas. Contact Marc Shafer, 267-3286 for more information.

Human-Powered Submarine Project

A group of MIT students, staff and faculty is entering a race for human-powered submarines, to be held in Florida in June 1989.

There will be intense activity in IAP '89. The actual tasks to be undertaken then will depend upon what has been accomplished in the fall term, but will certainly involve some designing, building and instrumentation and, if we have made good progress, possibly testing, at least of subassemblies and models.

MIT Sea Grant is providing leadership and some funds and Cliff Goudey of Sea Grant will lead the activity. UROP or ME-department credit is obtainable by working with Prof. David Gordon Wilson, 3-455, x3-5121.

Frontiers in Mechanical Engineering

A series of lectures on topics of research and general interest will be given by the faculty in the department. Freshmen and undergraduates are especially invited to come and find out more about the hot topics in mechanical engineering. Arrangements may be made for lab tours following some lectures. Check the IAP Guide for details and schedule.

Project Laboratory (2.672)

Engineering laboratory subject for mechanical engineering juniors and seniors. Major emphasis on interplay between analytical and experimental methods in solution of research and development problems. Communication (written and oral) of results is also a strong component of the course. Groups of two or three students work together on three problems during the term. All the prerequisites for 2.672 must be filled. A sign-up sheet, with further details is available through Peggy Garlik in the Mechanical Engineering undergraduate office, 3-156. Six units of credit is available. Prof. Peter Griffith, instructor.

Media Lab

Holography

A laboratory-based exploration of the principles, techniques, and applications of holography as a 3-D image communication medium, emphasizing white-light holograms and computer generated holograms. Lab fee. Limited enrollment. Four meetings. Prof. Stephen Benton, instructor.

Associative Style in Cinematic Narrative

An exploration of cinematic narrative as a function of associative style. Students will each annotate one film from among our selections, and present their observations to the group. Using a documentary case study about development in New Orleans, they will each then construct a short narrative on a visual work station. Limited enrollment. Meets four times with four hours of preparation for each meeting. Profs. E. Ackermann and G. Davenport, instructors.

Music

Memorable Movies with Music

We will watch some memorable movies and then talk about them and their music. The films may be shown on campus, or we may go to different Boston movie houses. This will take place three evenings during IAP. Contact Martin Marks, x3-8779, for more information.

Physics

Frontiers in Physics for Freshmen

The Physics Department faculty will offer a sequence of eight lectures (about 1½ hours each) using only freshman-level physics. Areas of current research that will be explored include X-ray astronomy, the early universe, elementary particles, nuclear physics, accelerators, superconductivity at "high" temperatures, and surface physics. Prof. Saul Rappaport, coordinator.

Introduction to Special Relativity (8.20)

Prof. Michel Baranger will lead this seminar which analyzes time stretching, Lorentz contraction, limiting speed of light, solutions to the twin paradox using invariance of the interval, Lorentz transformation, and space-time diagrams. It will also analyze particle collisions, interactions, transformations, creations, and annihilations, using conservation laws and the energy-momentum 4-vector. It will examine examples from MIT research projects, puzzles, and paradoxes and briefly discuss the theory of gravitation (general relativity). This nine-unit subject will be taught at a level appropriate for sophomores or freshmen with consent of the instructor. It will meet daily during IAP.

Remembering the Vietnam War through Videos

Want to learn about something Dan Quayle would rather not remember? If you never saw the widely-acclaimed PBS series on the thirty-year war in Indochina, this is your chance. The now-classic series presents the war from its roots in French colonialism through the US involvement. "Vietnam: A Television History" will be complemented by several independent documentaries, including "Hearts and Minds" and "Vietnam: A Secret Agent" (since it's on Agent Orange, this is a must for Chem/ChemE majors who want to make informed career decisions). It will meet for a total of fifteen to sixteen hours during IAP.

A Video Introduction to Social Change in the Third World

If you've never left North America, you've got to see it to believe it: war, poverty, cultures, customs, and languages you can't begin to imagine. If you're tempted to learn more, if you've been thinking about traveling to see for yourself, you'll want to check out this series of new videos about Asia, Africa, and Latin America. Issues covered include: the movement against apartheid in South Africa, the causes of hunger, village life and the role of women in China, and the wars of revolution and counter-revolution in El Salvador and Nicaragua. It will meet for a total of eight to ten hours during IAP.

National Security and Democracy at Home and Abroad

Why have we heard so much about the CIA lately? Maybe because they took so long taking General Noriega off the payroll. Maybe because Vice President Bush is so proud that he was once its director, a high point on his resume. But what does the CIA really do, and what are the implications for our Constitution and democratic process? Two controversial and provocative videos grapple with these questions: Allen Francovitch's "Inside the CIA: On Company Business," and Bill Moyer's "The Secret Government." It will meet for a total of four or five hours during IAP.

Undergraduate Research Opportunity Program Projects

One exciting way to use IAP is going full tilt on a research project: designing a feeding device for a paraplegic client, defining the reproductive cycle of unicellular algae, completing the research for a history of genocide in Cambodia, or anything else you can imagine (and can persuade a faculty member to supervise). For information and advice on how to start a UROP project, contact the Undergraduate Education Office, 20B-141. Although you can't do a UROP project just for January, you can start one now and continue it in January. Or start planning and making arrangements now so that come January you're able to concentrate on a project you'll continue in the spring.

Student Research Partners

What if you are a freshman, and aren't sure what you'd like to get into? What if you are sure, but find that faculty are saying, "Sorry, you don't yet have enough course work (or lab experience) to join up with me as a UROPer?"

UROP has a new, experimental program called "Student Research Partners" which runs only during IAP and is directed to freshmen. We will match you with an upperclassman, who will take you under his/her experienced wing for three weeks, introduce you to life in the laboratory or research center, and teach you some basic skills.

Please note that Student Research Partners, as a new program, has a limited number of openings. If you are a freshman interested in participating, feel free to give us a call. If you have an experienced upperclassman in mind to work with, let us know. Contact Jane Sherwin, 20B-141, x3-7909.

Wellesley Winter Session

MIT students can participate in Wellesley College's mini-version of IAP. The exchange bus will be running on a revised schedule. As at MIT, there is no formal registration process during this period.

Intensive Foreign Languages

Each year Wellesley offers three intensive language classes which meet every day for three weeks during IAP and offer twelve units of MIT credit. This year's offerings are beginning French, beginning Spanish, and intermediate Chinese. Check the Independent section of the *IAP Guide* for details on preregistration.

Going International:

A Workshop for Intercultural Living

In our world today, ethnocentrism is no longer a survival skill. Intercultural skills are necessary for the survival of the planet. To develop these skills, students will examine the values and assumptions we carry with us. Through films, educational games, and discussions, students will explore different cultural viewpoints. For more information contact Barbara Brown, Foreign Study Advisor at Wellesley College, 235-0320, x2320, or x187-2320.



Writing Program

Free Consultation and Advice on Writing

The Writing Center, 14N-317, x3-3090, will offer free consultation and advice on any writing problems, including the following: finding a topic, idea generation, overcoming writer's block, grammar, sentence structure and variety, wordiness, paragraphs, organization, and the use of evidence. The Center can help with Phase I and II papers, with theses, with graduate school and job applications, as well as with papers for courses.

Workshops on Engineering Writing:

A Review for Graduate Students

These workshops (three sessions within a two-week period) will cover processes of organizing and drafting professional papers, improving writing style, and revising documents in the respective field.

Help with Meeting Phase II

Three two-hour workshops will provide help for revising reports to fulfill Phase II of the Writing Requirement.

IAP Faculty Lecture Series

Come sit back and listen to some of MIT's most interesting professors, including Doc Edgerton and Jeremy Wolfe! Meet them in person and at the receptions afterward. To be held at 4 pm from January 23 to 27 in 34-101. See the *IAP Guide* for more details. Priscilla Songsanand, coordinator.

ARTS

Pro Arte's eleventh season gets off to a brilliant start

PRO ARTE

CHAMBER ORCHESTRA

Conducted by Larry Hill and Jeffrey Rink.
 Ronald Haroutunian, solo bassoon.
 Sanders Theatre, October 2.
 Event in The Tech Performing Arts Series.

By DEBBY LEVINSON

THE PRO ARTE CHAMBER ORCHESTRA's eleventh season got off to a brilliant start last Sunday night. Although Music Director Larry Hill had been laid low over the summer by serious surgery, he was in top form musically, as were his musicians.

Pro Arte opened with Bach's *Suite no. 1 in C*, a rolling and complex piece full of chromatic runs and mathematically-crafted phrases. The overture's more flowing sections were complemented by difficult arpeggios, well-played on the bassoon, and grace-note laden violin lines brought off with aplomb. The harpsichord, though, was barely audible, a problem which persisted during the ensuing *Courante*.

The *Gavotte I and II*, while meshing four separate themes carried by violin, oboe, cello, and harpsichord, weakened in its quieter spots, the violin section sounding somewhat unsure. Fortunately, this weakness was corrected in the fifth movement, *Menuet I and II*, which displayed not only beautifully hushed passages but showcased the previously quiet harpsichord as well.

The final two movements, *Bourree* and *Passepied I and II* featured a lovely, balanced interplay between oboe and bassoon. Lead oboe player James A. Bulger should be complemented for his excellent work in the *Passepieds*; his quick runs up and down the scale conveyed images of a swiftly running brook. Music Director Hill should also be recognized for his restrained but effective conducting of a difficult piece. Hill clearly had not fully recovered from his illness (he conducted while seated), but he coaxed a fine performance from the orchestra.

After a short break, Hill was replaced



Larry Hill with members of the Pro Arte Chamber Orchestra

by guest artist Jeffrey Rink, the assistant conductor of the Handel and Haydn Society. Bassoonist Ronald Haroutunian, one of Pro Arte's founding members, moved to the front of the stage, to perform Vivaldi's *Concerto in B Flat for bassoon, strings, and continuo*.

The concerto started slowly, with lethargic strings playing dismal two or three note phrases during the opening *La Notte*, "The Night." Haroutunian's bassoon provided occasional flashes of brightness, however, and the harpsichord fleshed out the sparse arrangement nicely. The second

movement, *Fantasmie "Nightmares,"* has similarities to the opening painting in Mussorgsky's *Pictures at an Exhibition*: maybe Mussorgsky was influenced by it. There are impossibly fast chromatic runs of six and seven notes in this movement; Haroutunian delivered the impossible with panache.

Haroutunian's skill continued to shine during the the amazingly complex bassoon trills of *Sorge L'Aurore*, "Dawn," where he decorated the simple cello and bass parts colorfully. Haroutunian displayed enormous skill on this piece.

Intermission was followed by Elgar's brief (ten minutes) *Suite from "The Spanish Lady."* The impressionistic first movement and dark, moody bass notes of the *Burlesco's* showed Pro Arte producing quite a different sound from the stricter Bach and Vivaldi pieces. There were some problems with the pizzicato ending of the *Burlesco*, but the *Sarabande*, came across well: it was regally played but not overbearing, with pleasant viola and cello swells. The plaintive cello and bass lines were lovely, and highly emotional. A few sour high notes were struck by the violins during the last section, *Bourree*, but these were corrected quickly.

The final piece, and perhaps the most well-known, was Aaron Copland's *Appalachian Spring*. A ballet dealing with the emotions of a newlywed farming couple, *Appalachian Spring* was composed in 1943-44 for a group of thirteen instruments: piano, flute, oboe, clarinet, bassoon and strings.

Rink's opening strains conveyed twin images of dawn and hope with slow, gorgeous violin and viola lines while the piano struck a single bass note, (in this case, slightly out of tune) to punctuate the phrases. Over a moving vibrato, a wishful strain was begun by the flute and echoed by clarinet and bassoon. The famous *allegro* portion of the piece was sharply executed, and though the woodwinds seemed naked and weak at times, the section was crystalline and clear. An ethereal middle section was suddenly and precisely interrupted by clarinet and flute, clearing the way for the syncopation and double stops that give this piece a Midwest or Western feel. The final section, variations on the old Shaker hymn *Simple Gifts*, was inventively done, even the fast, staccato flute scale towards the end came across flawlessly. *Appalachian Spring* was the highlight of the evening, a brilliant finish to an already excellent concert. If this concert is any indication of the progression of Pro Arte's eleventh season, their future performances should be fine indeed.

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notices

There is a **Food Addiction Hotline** being provided by the Florida Institute of Technology and the Heritage Health Corporation. This hotline is to provide information about food addiction, gather data about the nature and extent of food addiction, and raise the awareness in the population that food addiction exists. The hotline number is 1-800-USA-0088.

* * * * *

CALL, a toll-free telephone service, is available throughout Massachusetts and provides free information about **colleges, graduate schools, financial aid sources, and career opportunities**. CALL counselors can also refer callers to other sources such as schools, training programs or other education-related agencies available in specific areas. CALL operates Monday through Thursday, 9 am to 9 pm; Friday and Saturday 9 am to 5 pm; and Sunday 2 pm to 6 pm at 1-800-442-1171. Counselors are also available on a walk-in basis at the Higher Education Information Center located at the Boston Public Library, 666 Boylston Street, next to the Copley Plaza.

* * * * *

Do you have questions about **Distribution subjects** and fields, **Concentration requirements** or procedures, what are **HASS Elective subjects**? Come to the Humanities, Arts, and Social Sciences Office, 14N-409 for help with anything to do with the HASS Requirement. We are open 9-5. Stop by or call us at x3-4441.

* * * * *

The **Foreign and Domestic Teachers Organization** needs teacher applicants in all fields from kindergarten through college to fill over six hundred teaching vacancies both at home and abroad. Should you wish additional information about our organization, you may write The National Teacher's Placement Agency, Universal Teachers, Box 5231, Portland, Oregon 97208.

* * * * *

Every Tuesday at 1 pm in Walker 220, there is a **Japanese Lunch Table**. Bring a bag lunch, make friends and join this lively group. All levels are welcome!

* * * * *

The **Off-Campus Housing Service** welcomes any member of the community who either has available housing or who is searching for housing to contact our office in Room E32-121, ext. 3-1493.

* * * * *

The professional tutor staff of the **MIT Writing and Communication Center** (14N-317) will be glad to consult with you on any writing or oral presentation project (papers, theses, letters, etc.) from 10-6 Monday thru Friday. You may either phone for an appointment (x3-3090) or just drop in. In addition, workshops for those for whom English is a second language are held in the Center on Wednesdays from 6:15-7:15. All services are free.

* * * * *

The **Samaritans** — someone to talk to and befriend you, are on call 24 hours a day, 7 days a week. The center, at 500 Commonwealth Avenue, Kenmore Square, is open from 8-8 every day for people to come in and talk. Service is free and completely confidential. Call 247-0220.

Explorer Dr. Barry Barker of the **National Institute for Exploration** is organizing a series of expeditions during 1987 in an attempt to discover the hidden answers of mysterious and strange happenings in Peru. The results of these expeditions will be a full color book representing the best journalistic and photographic efforts of more than 100 individuals. For further details, call or write Dr. Barry W. Barker, Director, National Institute for Exploration, 111 N. Market St., Champaign, Il., 61820, 217-352-3667.

* * * * *

The **Science and Humanities Libraries** (Hayden Building Libraries) are now open from noon Sunday to 8 pm Friday — 24 hours a day — and from 8 am to 8 pm on Saturday. From midnight to 8 am access to the libraries is limited to members of the MIT community. Circulation and reference services are not available during restricted hours.

* * * * *

The **MIT Museum** has many ongoing exhibits. The Museum is located at 265 Massachusetts Ave., and is open Monday through Friday, 9-5, Saturday 10-4. Admission is free.

The **Student Conservation Association** (SCA) is providing opportunities for about 150 students to obtain expense-paid volunteer positions in conservation and resource management. Volunteers this winter and spring will serve in such areas as: the Virgin Islands, San Francisco, Florida, Arizona, Idaho, and Hawaii. Telephone the SCA at (603) 826-5206/5741 or send a postcard to: Student Conservation Association, PO Box 550C, Charlestown, NH 03603.

* * * * *

Today, more than one million men and women are demonstrating by their personal example that alcoholism is an illness that can be arrested. If you have an alcohol related problem please get in touch with the **Alcoholics Anonymous** group nearest you — with complete assurance that your anonymity will be protected. Call 426-9444 or write: Alcoholics Anonymous, Box 459, Grand Central Station, NY 10163. You will receive free information in a plain envelope.

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ARTS

On The Town

Compiled by Peter Dunn



Because of Columbus Day Holiday, *On The Town* will not appear on Tuesday, October 11. Instead, a longer version appears today and a shorter, weekend version will appear on Friday, October 14. *On The Town* will return to its regular Tuesday schedule on October 18.

Ongoing Theater

The American Clock, Arthur Miller's panoramic mural of the 1930s crafted in newsreel fashion, continues through October 16 as a presentation of the Huntington Theatre Company at the Boston University Theatre, 264 Huntington Avenue, Boston. Performances are Tues-Sat at 8 pm, with Wed, Sat, and Sun matinees at 2 pm. Tickets: \$13 to \$28. Telephone: 266-3913.

Broadway Bound, the third instalment in Neil Simon's autobiographical trilogy, continues through October 9 at the Colonial Theatre, 106 Boylston Street, Boston. Performances are Tues-Sat at 8 pm, with Thur, Sat, and Sun matinees at 2 pm. Tickets: \$22.50 to \$27.50. Telephone: 426-9366.

Fool for Love, Sam Shepard's scorching portrait of a tragic love affair, continues through November 20 at the New Ehrlich Theatre, 539 Tremont Street, Boston. Performances are Thur-Fri at 8 pm, Sat at 5 pm & 8:30, and Sun at 2 pm. Tickets: \$12 to \$15. Telephone: 482-6316.

Forbidden Broadway 1988, the latest updated version of Gerard Alessandrini's musical comedy revue, continues indefinitely at the Terrace Room, Boston Park Plaza Hotel. Performances are Tues-Fri at 8 pm, Sat at 7 pm & 10 pm, and Sun at 3 pm & 6 pm. Tickets: \$16 to \$22.50. Telephone: 357-8384.

Lydie Breeze, part of John Guare's lyrical trilogy about the dissolution of a utopian community on Nantucket in the years following the Civil War, continues through October 22 at the Alley Theatre, 1253 Cambridge Street, Cambridge, near Inman Square. Performances are Thur-Sun at 8 pm. Tickets: \$12. Telephone: 491-8166.

Murder at Rutherford House, the amusing audience-participation murder mystery, continues indefinitely at the Wilbur Theatre, 246 Tremont Street, Boston. Performances are Thur-Sat at 8 pm, matinees Sat-Sun at 2 pm. Tickets: \$33.50 to \$37.50 (includes dinner). Telephone: 423-4008.

Nunsense, depicting the talent show staged by the Little Sisters of Hoboken in order to raise money to bury four of their number currently in the convent freezer, continues indefinitely at the Charles Playhouse, 74 Warren Street, Boston. Performances are Tues-Fri at 8 pm, Sat at 6 pm & 9 pm, matinees Thur at 2 pm and Sun at 3 pm. Tickets: \$15.50 to \$26.50. Telephone: 426-6912.

Shear Madness, the long-running comic murder mystery, continues indefinitely at the Charles Playhouse, 74 Warren Street, Boston. Performances are Tues-Fri at 8 pm, Sat at 6:30 and 9:30 pm, Sun at 3 and 7:30 pm. Tickets: \$16 and \$19. Telephone: 426-6912.

Those Were The Days, the musical revue celebrating the "good old days of Scully Square," continues through October 14 at the Wilbur Theatre, 246 Tremont Street, Boston. Performances are Mon-Wed at 8 pm, Sat at 2 pm, and Sun at 6 pm. Tickets: \$33.50 to \$37.50 (includes lunch or dinner). Telephone: 426-1988.

What the Butler Saw, Joe Orton's wild melée of disappearances, disguises, and discoveries set in a lunatic asylum, continues through October 16 at the Lyric Stage, 34 Charles Street, Beacon Hill, Boston. Performances are Wed-Fri at 8 pm, Sat at 5 pm & 8:30, and Sun at 3 pm. Tickets: \$12.50 to \$15.50. Tel: 742-8703.

Yankee See, Yankee Do, an off-beat, irreverent look at how New Englanders act and think, continues at the Boston Baked Theatre, 255 Elm Street, Davis Square, Somerville. Performances are Thur-Fri at 8 pm and Sat at 8 pm & 10:15. Tickets: \$11 to \$14. Telephone: 628-9575.

Ongoing Exhibits

ON CAMPUS

Heinrich Hertz: The Beginning of Microwaves continues through December 31 at the MIT Museum, N52-2nd floor, 265 Massachusetts Avenue, Cambridge. Gallery hours are Tues-Fri 9-5 and Sat-Sun 12-4. Telephone: 253-4444.

In Gratitude and Admiration: A Celebration of Walter Gropius, an exhibit of birthday cards sent to Walter Gropius on his 60th and 70th birthdays to celebrate the 50th anniversary of the Gropius House, continues through December 31 at the MIT Museum, N52-2nd floor, 265 Massachusetts Avenue, Cambridge. Gallery hours are Tues-Fri 9-5 and Sat-Sun 12-4. Telephone: 253-4444.

Progetti per Napoli, 22 architectural designs for the city of Naples focusing on the problem of change in a historic setting, continues through November 11 at the MIT Museum Compton Gallery, between lobbies 10 and 13. Gallery hours are weekdays 9-5. No admission charge. Telephone: 253-4444.

OFF CAMPUS

Imagine: Art with the Macintosh, an exhibition of full color, computer generated art emphasizing original and creative use of the medium, continues through October 15 at the Computer Museum, Museum Warf, 300 Congress Street, Boston. Gallery hours are Sat-Thur 10-5 and Fri 10-9. Admission: \$4.50 general, \$3.50 seniors and students. Tel: 423-6758.

Where Images Come From: Drawings and Photographs by Frederick Sommer, featuring 55 works by one of America's leading experimental and avant-garde photographers, continues through October 16 at the Museum of Fine Arts, 465 Huntington Avenue, Boston. Telephone: 267-9300.

Eidetic Memory of Sommer continues through October 20 at the Kaji Aso Studio, 40 St. Stephen Street, Boston. No admission charge. Telephone: 247-1719.

Family Pictures, photographs by Judith Black and William Clift, continues through October 22 at the Clarence Kennedy Gallery, 770 Main Street, Cambridge, just north of MIT. Gallery hours are Tues-Sat 11-5. Telephone: 577-5177.

Art in Fashion/Fashion in Art, exploring relationships between fashion design and art, continues through October 23 at the Boston University Art Gallery, 855 Commonwealth Avenue, Boston. Gallery hours are Mon-Fri 10-4, Fri evening 7-9, and Sat-Sun 1-5. No admission charge. Telephone: 353-3329.

The John P. Axelrod Collection of Memphis: The Contemporary Design Group, featuring furniture, ceramics, glass, textiles, prints, and jewelry by the Italian design group Memphis, continues through October 30 at the Museum of Fine Arts, 465 Huntington Avenue, Boston. Telephone: 267-9300.

Jewelry by Heinz Brummel, Judy Corlett, Sydney Lynch, Steve Vauhel, and Jim Yemberger, and **Animals**, pine sculptures by Norton Latourelle, continues through November 6 at Ten Arrow Gallery, 10 Arrow Street, Cambridge. Gallery hours are Mon-Sat 10-6, Thur 10-9, and Sun 1-5. Telephone: 876-1117.

The BINATIONAL: Art of the Late 80s, American Artists continues through November 27 at the Museum of Fine Arts, 465 Huntington Avenue, and at the Institute of Contemporary Art, 955 Boylston Street, Boston. *German Artists* is presented December 16 to January 29. Tel: 267-9300 (MFA) and 266-5151 (ICA).

Mummies and Magic: The Funerary Arts of Ancient Egypt continues through December 11 at the Museum of Fine Arts, 465 Huntington Avenue, Boston. Telephone: 267-9300.

Twenty Years of Tapestry Acquisitions: 1965-85 continues through December in the William I. Koch Gallery, the Museum of Fine Arts, 465 Huntington Avenue, Boston. Telephone: 267-9300.

Tuesday, Oct. 4

CLASSICAL MUSIC

CRITIC'S CHOICE ★ ★ ★ Soprano **Laura Padellaro**, accompanied by pianist **Stephen Steiner**, performs works by Bizet, Brahms, Mozart, and Barab at noon in MIT's Elizabeth Killian Hall (14W-111), Hayden Library, Cambridge. No admission charge. Telephone: 253-2906.

CRITIC'S CHOICE ★ ★ ★ **The Boston Symphony Orchestra**, Seiji Ozawa conducting, performs Beethoven's *Symphony No. 9* at 8 pm in Symphony Hall, corner of Huntington and Massachusetts Avenues, Boston. Tickets: \$16 to \$42.50, \$5 student rush tickets available day of show. Telephone: 266-1492.

THEATER

CRITIC'S CHOICE ★ ★ ★ **Sex, Drugs, and Rock 'n Roll**, the one-man show by actor-writer Eric Bogosian is presented at 8 pm at the Loeb Drama Center, 64 Brattle Street, Cambridge. Also presented October 5 and 6 at 8 pm and October 8 at 7 pm and 9:30. Tickets: \$14 to \$28. Telephone: 547-8300.

Sunday on the Rocks, local playwright Theresa Rebeck's contemporary comedy, opens today at the New Ehrlich Theatre, 539 Tremont Street, Boston. Continues through October 23 with performances Tues-Fri at 8:00, Sat at 5:00 & 8:30, and Sun at 2:00. Tickets: \$10 to \$15. Telephone: 482-6316.

FILM & VIDEO

The Somerville Theatre presents **Koyaanisqatsi** — *Life Out of Balance* (Godfrey Reggio, 1985) at 8 pm and **Mondo New York** (Harvey Keith, 1988) at 6 pm & 10 pm. Also presented Wednesday, October 5. Located at 55 Davis Square, West Somerville, just by the Davis Square T-stop on the red line. Admission: \$4.50 general, \$3 seniors and children (good for the double bill). Telephone: 625-1081.

The Harvard Film Archive continues its Tuesday series **Women and the American Cinema** with a Greta Garbo double bill, **Flesh and the Devil** (Clarence Brown, 1927) at 5:30 and **Queen Christina** (Rouben Mamoulian, 1933) at 8:00. Also, the HFA continues its film series **Critiques of a Culture with Nashville** (Robert Altman, 1975) at 7:30. Located at the Carpenter Center for the Visual Arts, Harvard University, 24 Quincy Street, Cambridge. Admission: \$3 general, \$2 seniors & children, \$5/\$4 for the double feature. Telephone: 495-4700.

The Boston Museum of Science presents **Speed** (Greg MacGillivray) and **New England Time Capsule** at the Mugar Omni Theater, Museum of Science, Museum Park, Boston, near the green line T-stop of the same name [see review this issue]. Continues through March with screenings Tues-Thur at 11 am, 1, 2, 3, 7, & 8 pm, Fri also at 9 & 10 pm, and Sat-Sun every hour from 10 am to 8 pm. Admission: \$5 general, \$3 seniors and children. Tel: 742-6088 or 723-2500.

The Brattle Theatre continues its Tuesday series **Showing New International Cinema** with **Faces of Women** (Desire Ecare, 1985, Ivory Coast) at 4 pm & 8 pm and **A Boy from Calabria** (Luigi Comencini, 1987, Italy) at 6 pm & 10 pm. Located at 40 Brattle Street, Harvard Square, Cambridge. Admission: \$5 general, \$3 seniors and children. Telephone: 876-6837.

LECTURES

CRITIC'S CHOICE ★ ★ ★ **Henri Langlois and the Cinematheque Francaise**, a lecture by Glenn Myrland, co-biographer of Langlois, is presented at 8 pm at the Institute of Contemporary Art Theater, 955 Boylston Street, Boston. Tickets: \$3.50 general, \$2.50 ICA members, seniors, and students. Telephone: 266-5152.

Medieval Paris Today, an illustrated lecture in French by Alice H. Jouve, is presented at 7 pm at the French Library in Boston, 53 Marlborough Street, Boston, near the Arlington T-stop on the green line. Tickets: \$5 general, \$3 Library members, seniors, and students. Telephone: 266-4351.

POPULAR MUSIC

The John Hiatt Band and The Rain perform at the Paradise, 967 Commonwealth Avenue, Boston. Tel: 254-2052.

Wed., Oct. 5

CLASSICAL MUSIC

The New England Conservatory presents **A Concert of Works by Daniel Pinkham** in celebration of the composer's 65th birthday at 8 pm in Jordan Hall, New England Conservatory, corner of Gainsborough Street and Huntington Avenue, Boston. No admission charge. Telephone: 262-1120.

The Boston Conservatory Orchestra, Ronald Feldman conducting, performs Bartok's *Viola Concerto* and Mozart's *Symphony No. 29* at 8 pm in Scully Hall, Boston Conservatory, 8 The Fenway, Boston. No admission charge. Telephone: 536-6340.

FILM & VIDEO

The Brattle Theatre continues its Wednesday film series **Distraught Housewives** with **Sheer Madness** (Margarethe von Trotta, 1983) at 3:45 & 7:55 and **Entre nous** (Diane Kurys, 1983) at 5:45 & 9:55. Located at 40 Brattle Street, Harvard Square, Cambridge. Admission: \$4.75 general, \$3 seniors and children (good for the double feature). Telephone: 876-6837.

The Harvard Film Archive continues its Wednesday series **Contemporary World Cinema (1960-85)** with **Oedipus Rex** (Pier Paolo Pasolini, 1967, Italy) at 5:30 & 8:00. Located at the Carpenter Center for the Visual Arts, Harvard University, 24 Quincy Street, Cambridge. Admission: \$3 general, \$2 seniors & children. Telephone: 495-4700.

EXHIBITS

CRITIC'S CHOICE ★ ★ ★ **Special Effects: The Science of Movie and Television Magic** opens today at the Museum of Science, Science Park, Boston, near the green line T-stop of the same name. Continues through January 5 with gallery hours Tues-Sun 9-5. Admission: \$5 general, \$3 seniors and children. Tel: 742-6088 or 723-2500.

Paintings by Fitz Hugh Lane, presenting a comprehensive showing of the work of the much-admired New England painter, opens today at the Museum of Fine Arts, 465 Huntington Avenue, Boston. Telephone: 267-9300.

LECTURES

The Museum of Fine Arts begins its lecture series **Magic for Eternity: Funerary Art and Ritual in Ancient Egypt** with **The Survivors: Mourning and Other Reactions to Death in Ancient Egypt**, with Edna Russman from the New York Metropolitan Museum of Art, at 8 pm in Remis Auditorium, MFA, 465 Huntington Avenue, Boston. Lecture series continues October 19 and November 2. Tickets: \$7.50 general, \$6.50 MFA members, seniors, and students. Telephone: 267-9300 ext. 306.

POPULAR MUSIC, ETC.

In case you plan on missing them at tomorrow SCC Strat's Rat, **They Might Be Giants**, with guests **Hiding In Public**, perform at the Paradise, 967 Commonwealth Avenue, Boston. Tel: 254-2052.

Aswad, with guests **Danny Tucker and One Love**, perform at the Channel, 25 Necco Street, near South Station in downtown Boston. Tickets: \$9.50 advance/\$10.50 at the door. Telephone: 451-1905.

The Rain Dogs and Border Patrol perform at Johnny D's, 17 Holland Street, Somerville, just by the Davis Square T-stop on the red line. Tel: 776-9667.

JAZZ MUSIC

San Francisco trombonist **J. A. Deane** performs at 8 pm at the Institute of Contemporary Art, 955 Boylston Street, Boston. Tickets: \$8 general, \$6 ICA members, seniors, and students. Telephone: 266-5152.

Thursday, Oct. 6

CLASSICAL MUSIC

Harpischorist **Jennifer Paul** performs Scarlatti Sonatas as part of the **MIT Thursday Noon Chapel Series** at 12:05 in the MIT Chapel. No admission charge. Telephone: 253-2906.

CRITIC'S CHOICE ★ ★ ★ **The Boston Symphony Orchestra**, Seiji Ozawa conducting, performs Mahler's *Symphony No. 9* at 8 pm in Symphony Hall, corner of Huntington and Massachusetts Avenues, Boston. Also presented Friday, October 7 at 2 pm. Tickets: \$16 to \$42.50, \$5 student rush tickets available day of show. Telephone: 266-1492.

Flutist **Lynelle West** performs works by Bach, Piston, Messiaen, and Mozart at 12:30 in the Federal Reserve Bank of Boston's auditorium, 600 Atlantic Avenue, across from South Station in downtown Boston. No admission charge. Telephone: 973-3454 or 973-3368.

THEATER

CRITIC'S CHOICE ★ ★ ★ **The Effect of Gamma Rays on Man-In-The-Moon Marigold's**, Paul Zindel's drama of an embittered mother who vents her unhappiness on her two daughters, opens today at The Performance Place, 277 Broadway, Somerville. Continues through October 22 with performances Thur-Fri at 8 pm and Sat at 6 pm & 9 pm. Tickets: \$6. Telephone: 623-5510.

DANCE

CRITIC'S CHOICE ★ ★ ★ **Boston Ballet** performs August Bournonville's *La Sylphide* at 7 pm at the Wang Performance Center, 270 Tremont Street, Boston. Continues through October 16 with performances at 8 pm. Tickets: \$10.50 to \$34.50. Telephone: 542-1323.

CRITIC'S CHOICE ★ ★ ★ **The Merce Cunningham Dance Company** performs at 8 pm in John Hancock Hall, 180 Berkeley Street, Boston. Also presented October 7 and 8. Tickets: \$18, \$20, and \$22 (reduced price tickets also offered through *The Tech* Performing Arts Series). Telephone: 572-7617.

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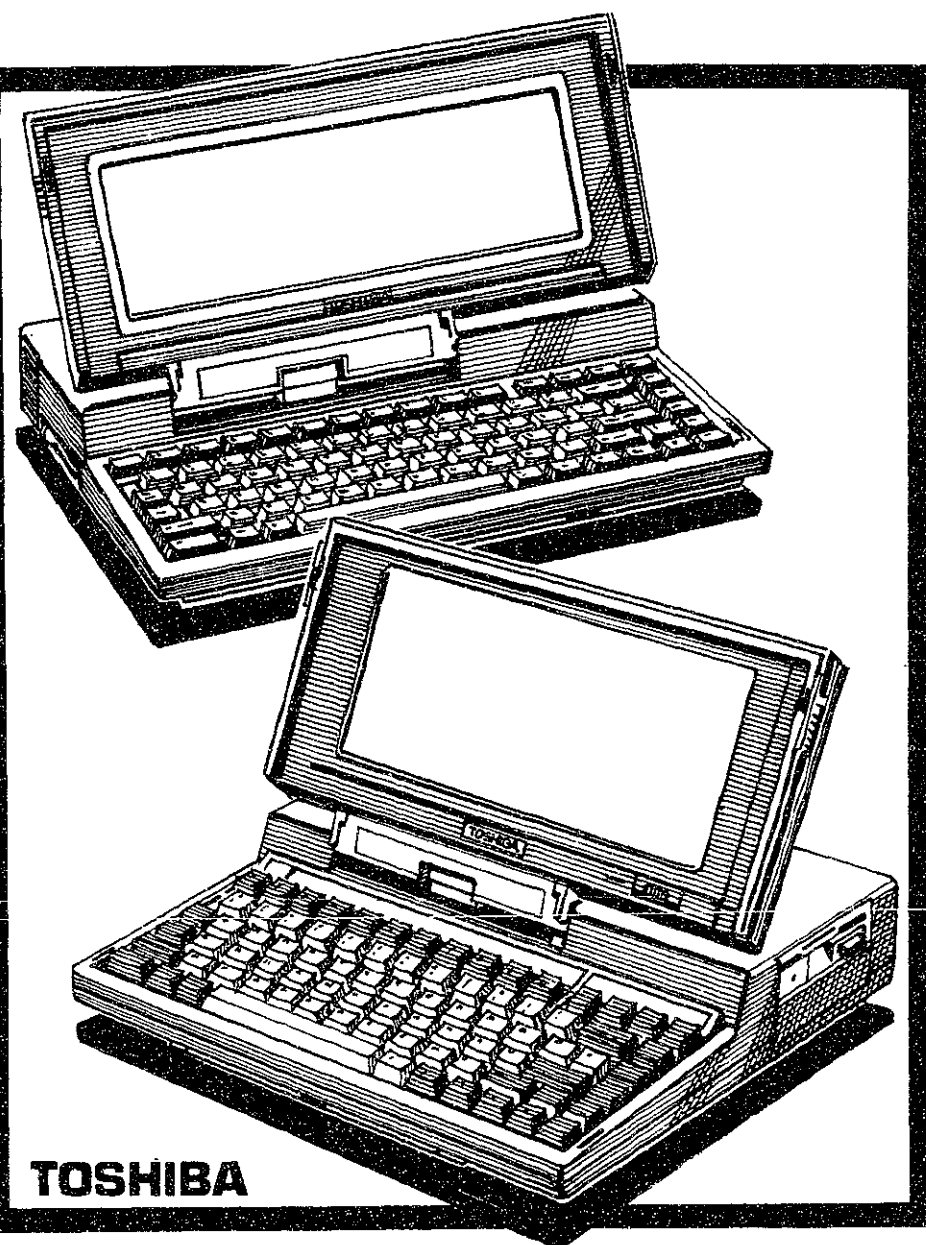
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ARTS

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John Hancock Hall, October 7 at 8 pm.

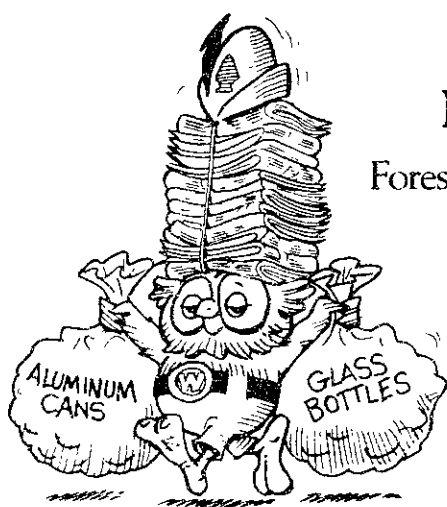
JULIAN BREAM

One of the world's most accomplished guitarists gives a recital ranging from Bach to Takemitsu and Lutoslawski.
Jordan Hall, October 14 at 8 pm. *MIT price: \$5*

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,
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ARTS

On The Town

Compiled by Peter Dunn



POPULAR MUSIC, ETC.

*** CRITIC'S CHOICE ***
 SCC Strat's Rat presents *They Might Be Giants* in Lobdell Dining Hall, MIT Student Center. No admission charge.

Frank Sinatra, Liza Minnelli, and Sammy Davis Jr. perform at the Worcester Centrum, 50 Foster Street, Worcester. Also presented October 7. Tickets: \$30 and \$50. Telephone: 508-798-8888.

O Positive and Whoville perform at Axis, 13 Lansdowne Street, just across from the entrance to the bleachers at Fenway ballpark, near Kenmore Square. Tickets: \$6 advance/\$7 at the door. Telephone: 262-2437.

The Hubcaps and Screaming Coyotes perform at Johnny D's, 17 Holland Street, Somerville, just by the Davis Square T-stop on the red line. Telephone: 776-9667.

617, Don't Try This At Home, and Mind Over Matter perform at the Rat, 528 Commonwealth Avenue, Kenmore Square, Boston. Telephone: 536-9438.

The Jeff Healy Band performs at T.T. the Bear's, 10 Brookline Street, Cambridge, just north of MIT. Telephone: 492-0082.

JAZZ MUSIC

Richie Cole and Alto Madness and the Mal Waldron Duo perform at 7:30 & 10:00 at Nightstage, 823 Main Street, Cambridge, just north of MIT. Telephone: 492-8200.

FILM & VIDEO

The Brattle Theatre continues its film series *Truffaut Thursdays* with *Jules and Jim* (1961), starring Jeanne Moreau, at 3:45 & 8:00 and *The Soft Skin* (1964) at 5:45 & 10:00. Admission: \$4.75 general, \$3 seniors and children (good for the double feature). Telephone: 876-6837.

The Harvard-Epworth Church concludes its series of *Films of Ernst Lubitsch* with *Cluny Brown* (1946), starring Jennifer Jones and Charles Boyer, at 8 pm. Located at 1555 Massachusetts Avenue, Cambridge, just north of Harvard Square. Admission: \$3 donation. Telephone: 354-0837.

The Museum of Fine Arts continues its series *Late Picnics: Short Film Feast* with *Black Menu* (1987), Penn and Teller's *Invisible Thread* (1986), and *Frankenweenie* (1985) at 5:30 and *The Duxorist* (1987), *One of Those Days* (1988) *Picnic* (1988), and five others at 7:30. Screenings in Remis Auditorium, MFA, 465 Huntington Avenue, Boston. Admission: \$4 general, \$3.50 MFA members, seniors, and students. Telephone: 267-9300.

The Somerville Theatre presents *Polyester* (John Waters, 1985, in Odorama) at 6:00 & 9:30 and *Hairspray* (John Waters, 1988) at 7:45. Located at 55 Davis Square, West Somerville, just by the Davis Square T-stop on the red line. Admission: \$4.50 general, \$3 seniors and children (good for the double bill). Telephone: 625-1081.

LECTURES

The Museum of Fine Arts begins its lecture series *Art of the 1980s*, with Rebecca Nemes, at 6 pm in the Mabel Louise Riley Seminar Room, MFA, 465 Huntington Avenue, Boston. Series continues October 13, 18, and 25. Series subscription: \$36 general, \$30 MFA members, seniors, and students. Telephone: 267-9300 ext. 306.

Friday, Oct. 7

POPULAR MUSIC, ETC.

AC/DC performs at the Boston Garden, Causeway Street, Boston, near the North Station T-stop on the green and orange lines. Tickets: \$17.50. Tel: 720-3434.

The Del Fuegos, with guests The Unstated, The Dawgs, and The Breakdown, perform at the Channel, 25 Necco Street, near South Station in downtown Boston. Tickets: \$7.50 advance/\$8.50 at the door. Telephone: 451-1905.

David Lindley and El Rayo-X perform at the Paradise, 967 Commonwealth Avenue, Boston. Telephone: 254-2052.

Barrance Whitfield and She Cried perform at T.T. the Bear's, 10 Brookline Street, Cambridge, just north of MIT. Telephone: 492-0082.

Think Tree, A Scanner Darkly, and Society of Children perform at the Rat, 528 Commonwealth Avenue, Kenmore Sq., Boston. Telephone: 536-9438.

Fat City performs at Johnny D's, 17 Holland Street, Somerville, just by the Davis Square T-stop on the red line. Telephone: 776-9667.

Commander Cody and the Original Lost Planet Airmen and Jack Smith and the Rockabilly Planet perform at 8 pm & 11 pm at Nightstage, 823 Main Street, Cambridge, just north of MIT. Telephone: 497-8200.

JAZZ MUSIC

*** CRITIC'S CHOICE ***
 Saxophonist Michael Brecker performs at 7:30 at the Berklee Performance Center, corner of Boylston Street and Massachusetts Avenue, Boston. Tickets: \$14.50 and \$16.50. Telephone: 266-7453.

FILM & VIDEO

The MIT Lecture Series Committee presents *Pride and Prejudice*, starring Greer Garson and Sir Laurence Olivier, at 7:30 in 10-250 and *D.O.A.*, starring Dennis Quaid and Meg Ryan, at 7:00 & 9:30 in 26-100. Admission: \$1.50. Telephone: 258-8881.

The Somerville Theatre presents *Rosa Luxemburg* (1986, Germany) at 3:30 & 7:45 and *High Tide* (1988, Australia) at 5:45 & 10:00. Located at 55 Davis Square, West Somerville, just by the Davis Square T-stop on the red line. Admission: \$5 general, \$3 seniors and children (good for the double bill). Telephone: 625-1081.

The Brattle Theatre continues its Friday/Saturday series *Hollywood Through the '50s: Films of the Cold War with Invasion of the Body Snatchers* (Don Siegel, 1956) at 6:05 & 10:00 and *My Son John* (Leo McCarey, 1952) at 3:45 & 7:45. Admission: \$4.75 general, \$3 seniors and children (good for the double feature). Telephone: 876-6837.

*** CRITIC'S CHOICE ***
 The French Library in Boston begins its film series *Le Québec vivant* with *Le déclin de l'empire américain* (The Decline of the American Empire, Denis Arcand, 1986) at 8 pm. Also presented October 9 and 10. Located at 55 Marlborough Street, Boston, near the Arlington T-stop on the green line. Admission: \$3.50 general, \$2.50 Library members. Tel: 266-4351.

The Museum of Fine Arts continues its Friday series *Real-Life Characters: New Documentaries with Inheritance* (Bill Donovan, 1987) at 5:30 and *Halftime* (David Sutherland, 1988), with the director and David Keller present, at 7:30. Screenings located in Remis Auditorium, MFA, 465 Huntington Avenue, Boston. Admission: \$4 general, \$3.50 MFA members, seniors, and students. Telephone: 267-9300.

The Harvard Film Archive continues its series *Images in the Shadows: A History of Spanish Cinema with The Tower of the Seven Hunchbacks* (Edgar Neville, 1944) at 7 pm and *Race* (Jose Luis Saenz de Heredia, 1941) at 9 pm. Located at the Carpenter Center for the Visual Arts, Harvard University, 24 Quincy Street, Cambridge. Admission: \$3 general, \$2 seniors & children, \$5/34 for the double feature. Telephone: 495-4700.

The Institute of Contemporary Art premieres Bill Seaman's video installation, *The Design of the Grip*, today with an introduction by the artist at 6 pm. The installation remains on view through October 23. Located at 955 Boylston Street, Boston, near the Auditorium T-stop on the green line. Telephone: 266-5152.

CLASSICAL MUSIC

The Benjamin Britten 75th Anniversary Concert Series continues at 8:30 in the Boston University Concert hall, 855 Commonwealth Avenue, Boston. Tickets: \$6 general, \$3 seniors and students. Telephone: 353-3345.

The Academy of St. Martin in the Fields performs works by Mozart and Stravinsky at 8 pm in Symphony Hall, corner of Huntington and Massachusetts Avenues, Boston. Tickets: \$20. Tel: 266-1492.

*** CRITIC'S CHOICE ***
 The Boston Chamber Music Society performs works by Schumann, Mendelssohn, and Tchaikovsky at 8 pm in Jordan Hall, New England Conservatory, corner of Gainsborough Street and Huntington Avenue, Boston. Also presented on October 9 in Sanders Theatre, Harvard University, corner of Kirkland and Quincy Streets, Cambridge. Tickets: \$7, \$10, and \$15. Telephone: 536-6868.

Harpichordist Peter Sykes performs works by Bach, Couperin, Rameau, and Ligeti at 8 pm in the Edward Pickman Concert Hall, Longy School of Music, Garden and Follen Streets, Cambridge. Admission: \$10. Telephone: 876-0956.

EXHIBITS

Works Since 1950, examining the work of the New York-based feminist artist Nancy Spero; *Visual Impressions of an Invisible Sculpture*, mechanical and environmental sculptures by Santa Monica artist Carl Cheng; and *The Bear in the Marketplace: Anticommunism and Patriotism in Recent American Advertising*, a visual essay by the Boston artist Richard Bolton analyzing the influence of superpower politics on advertising, open today at the List Visual Arts Center, MIT Wiesner Building E15, 20 Ames Street, Cambridge. Exhibits continue through December 4 with gallery hours weekdays 12-6 and weekends 1-5. No admission charge. Telephone: 253-4680.

Saturday, Oct. 8

CLASSICAL MUSIC

*** CRITIC'S CHOICE ***
 The MIT Chamber Players perform at 8 pm in MIT's Elizabeth Killian Hall (14W-111), Hayden Library, Cambridge. No admission charge. Telephone: 253-2906.

THEATER

Saturday at the Cut 'n Wave, by Karen Schneiderman, is presented by Theatre in Process at 8 pm at the Blacksmith House, Cambridge Center for Adult Education, 56 Brattle Street, Cambridge. Also presented Sunday, October 9 at 6 pm. Admission: \$5. Tel: 547-6789.

COMEDY

MTV's Presidential Candidate, Rande of the Redwoods, performs in a comedy concert at 8 pm at the Somerville Theatre, 55 Davis Square, West Somerville, just by the Davis Square T-stop on the red line. Tickets: \$11.50, \$13.50, and \$15.50 advance, \$2 more at the door. Telephone: 625-1081.

POPULAR MUSIC, ETC.

Elton John performs at the Worcester Centrum, 50 Foster Street, Worcester. Also presented October 9 and 10. Tickets: \$22.50. Telephone: 508-798-8888.

*** CRITIC'S CHOICE ***
 Midnight Oil performs at the Orpheum Theatre, Hamilton Place, Boston. Also presented October 9. Tickets: \$16 and \$17. Telephone: 492-1900 or 787-8000.

The Neighborhoods, with guests The Joneses, The Royal Pains, The Shok, and Street Kid, perform at the Channel, 25 Necco Street, near South Station in downtown Boston. Tickets: \$5. Telephone: 451-1905.

The Ben Vaughn Combo, The Merchants, and Inside Outburst perform at T.T. the Bear's, 10 Brookline Street, Cambridge, just north of MIT. Telephone: 492-0082.

The Neats, Eight Balls, and Ten Times perform at the Rat, 528 Commonwealth Avenue, Kenmore Square, Boston. Telephone: 536-9438.

John Lincoln Wright and Garr Lange and the Big Rig perform at Johnny D's, 17 Holland Street, Somerville, just by the Davis Square T-stop on the red line. Telephone: 776-9667.

NRBQ performs at 8 pm & 11 pm at Nightstage, 823 Main Street, Cambridge, just north of MIT. Telephone: 497-8200.

FILM & VIDEO

The MIT Lecture Series Committee presents *The Fox and the Hound* at 3:00, 7:00, & 9:30 in 26-100. Admission: \$1.50. Telephone: 258-8881.

The Brattle Theatre continues its Friday/Saturday series *Hollywood Through the '50s: Films of the Cold War with Invasion of the Body Snatchers* (Don Siegel, 1956) at 4:25 & 8:00 and *Them!* (Gordon Douglas, 1954) at 2:30, 6:05, & 9:40. Admission: \$4.75 general, \$3 seniors and children (good for the double feature). Telephone: 876-6837.

The Harvard Film Archive continues its series *Images in the Shadows: A History of Spanish Cinema with Eloisa is Underneath an Almond Tree* (Rafael Gil, 1943) at 7 pm and *The Tower of the Seven Hunchbacks* (Edgar Neville, 1944) at 9 pm. Located at the Carpenter Center for the Visual Arts, Harvard University, 24 Quincy Street, Cambridge. Admission: \$3 general, \$2 seniors & children, \$5/34 for the double feature. Telephone: 495-4700.

Sunday, Oct. 9

POPULAR MUSIC, ETC.

*** CRITIC'S CHOICE ***
 The Slaves, Cave Dogs, The Matweeds, The Titans, Blackjacks, Neutral Nation, Dogzillas, Screaming Broccoli, Condo Pygmies, Rash of Stabbings, and Big Huge perform in a record release party at 1 pm at the Channel, 25 Necco Street, near South Station in downtown Boston. Tickets: \$5.50 advance/\$6.50 at the door. Telephone: 451-1905.

FILM & VIDEO

The MIT Lecture Series Committee presents *Being There*, starring Peter Sellers and Shirley MacLaine at 8 pm in 26-100. Admission: \$1.50. Telephone: 258-8881.

The Somerville Theatre presents *Big*, starring Tom Hanks, at 4 pm & 8 pm and *The Graduate*, starring Dustin Hoffman, at 6 pm & 10 pm. Also, beginning at midnight, is the *Attack of the Killer B's* film marathon, 13 hours of horror and schlock movies. Located at 55 Davis Square, West Somerville, just by the Davis Square T-stop on the red line. Admission: \$5 general, \$3 seniors and children (good for the double bill). Telephone: 625-1081.

The Brattle Theatre continues its Sunday film series *Capra at Columbia with It Happened One Night* (1934), starring Claudette Colbert and Clark Gable, at 3:30 & 7:30 and *Dirigible* (1931), starring Fay Wray, at 1:30, 5:30, & 9:30. Admission: \$4.75 general, \$3 seniors and children (good for the double feature). Telephone: 876-6837.

The Harvard Film Archive continues its series *Images in the Shadows: A History of Spanish Cinema with Life in the Shadows* (Lorenzo Ilobet Gracia, 1948) at 4 pm and *Furrows* (Jose Antonio Nieves Conde, 1951) at 7 pm. Located at the Carpenter Center for the Visual Arts, Harvard University, 24 Quincy Street, Cambridge. Admission: \$3 general, \$2 seniors & children, \$5/34 for the double feature. Telephone: 495-4700.

Monday, Oct. 10

FILM & VIDEO

The Somerville Theatre presents *Diva* at 5:30 & 10:00 and *Bagdad Café* at 7:50. Also presented Tuesday, October 11. Located at 55 Davis Square, West Somerville, just by the Davis Square T-stop on the red line. Admission: \$4.50 general, \$3 seniors and children (good for the double bill). Telephone: 625-1081.

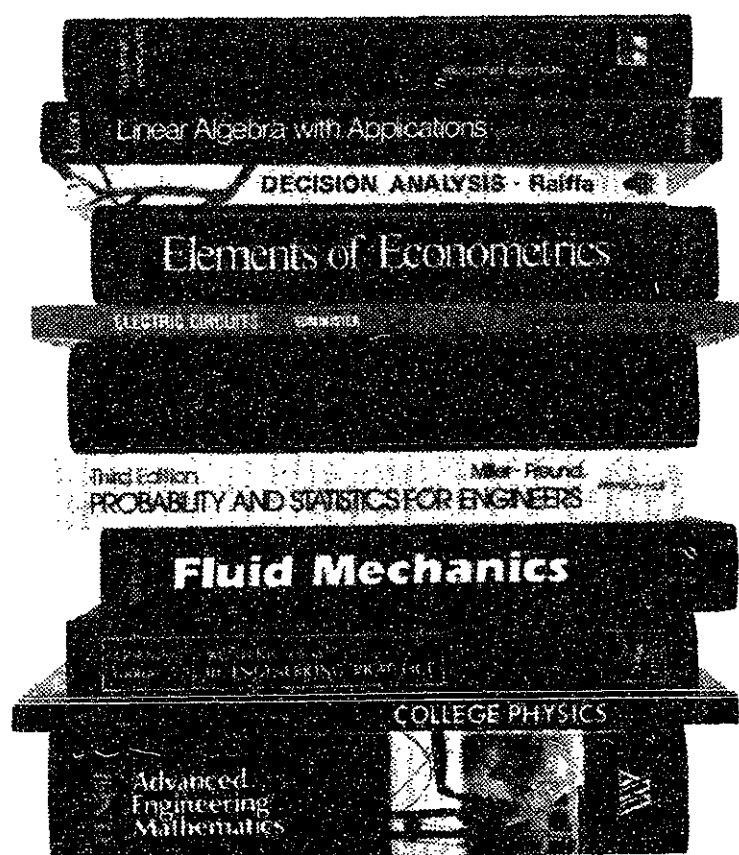
The Brattle Theatre continues its Monday series of *Film Noir* with *The Postman Always Rings Twice* (Tay Garnett, 1946), starring Lana Turner and John Garfield, at 3:35 & 7:55 and *Gaslight* (George Cukor, 1944), starring Ingrid Bergman, at 1:30, 5:45, & 10:00. Admission: \$4.75 general, \$3 seniors and children (good for the double feature). Telephone: 876-6837.

Tuesday, Oct. 11

THEATER

*** CRITIC'S CHOICE ***
 Clarence Darrow, David W. Rintels' play starring and staged by George C. Scott, opens today at the Colonial Theatre, 106 Boylston Street, Boston. Continues through October 16. Telephone: 426-9366.

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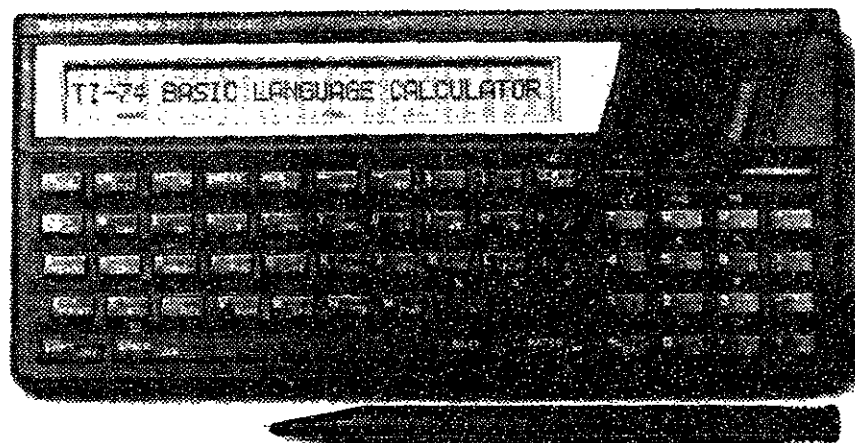
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TEXAS INSTRUMENTS

FLL classes see drop in enrollment

(Continued from page 1)

general, "they are not making it easy for students to take foreign languages," Kramsch said. Third-level language courses were stripped of their distribution status under the new system.

Many incoming freshmen still choose their courses on the basis of whether they carry HASS-D status or not, and that is most likely the cause of the decreased enrollment, Kramsch said.

Friedlaender explained that although "foreign languages have a clear role in general education, and link various streams of thought," the HASS Committee concluded that the "breadth of culture or language and literature is not sufficiently great [in third-level courses] to warrant HASS-D status."

Committee examines FLL

A committee formed by Friedlaender in February examined, among other things: making new appointments in the FLL section; deciding on the proper balance of faculty/non-faculty positions within the FLL section; and deciding on the balance of resources to be put into the level I-IV courses.

Friedlaender said that the committee, which included members of the FLL section, did not reach any final conclusions. She noted that the FLL section is an "institutional anomaly that no one has been able to deal with."

The FLL faculty is burdened with the heavy teaching loads incumbent upon foreign language teachers, and thus has less time to conduct research, she noted. Research output is one of the Institute's criteria in choosing faculty and granting tenure status.

Currently, 90 percent of the courses in the FLL section are taught by non-faculty, according to Kramsch, who found that figure disturbing.

"If MIT has difficulty assessing excellence of multi-disciplinary research, it is hard to retain good faculty," Kramsch said.

Friedlaender maintained that the Institute is "very interested" in such research.

Proponents of a strong program in foreign languages at MIT point to the increasingly international character of engineering fields. "As MIT rethinks the role of the engineer of the 21st century," education must be broad, Kramsch noted. "It is not enough to put foreign words on paper; you must understand foreign points of view."

In the 1930s, MIT carried a foreign language requirement, according to Professor Travis R. Merritt, head of the Undergraduate Academic Support Office. The requirement was aimed particularly at German, which then

was one of the primary languages of science and technology. That requirement was dropped during World War II.

Kramsch neither envisions nor really desires a language requirement at MIT, preferring not to teach to a "captive audience."

Merritt, who in 1985 chaired a committee which examined the history and status of MIT's HASS programs and requirements, sees the role of foreign languages and humanities at MIT as critical to determining the character of the Institute.

"It MIT means to have the significant characteristics of a real university [as opposed to an institution]," he said, "then it cannot afford to use as a criterion in forming its curriculum some peculiar relevance to science and engineering."

Freshmen are encouraged to formulate plans for IAP

(Continued from page 1)

part of your educational experience at MIT," and said "it's very important to get involved in your first one." The *Handbook* also said freshmen would evaluate IAP with their advisors when the period ended, a practice recommended by the Policy Committee report.

Mar offered no specifics on how he would increase faculty participation, except by talking with representatives of various departments. Former IAP Policy Committee Chairman David Gordon Wilson noted last spring that some faculty would rather spend the month working on research

than making a commitment to IAP.

The full IAP schedule has not been planned yet. The committee is strongly considering many ideas, including condensed courses that may carry three, six, or nine units of credit, more student-run activities, and more one-day workshops, Mar said. A range of options being considered — "it is similar to ordering a hamburger and trying to decide what to put on it," Mar commented.

The finalized IAP Guide, which will list all of the over-600 IAP activities, will be distributed in December.

The Tech News Hotline: 253-1541

TECHNICAL & BUSINESS CAREERS

THE GTE APPROACH

ON-CAMPUS INFORMATION RECEPTION

DATE: Tuesday, October 4th
TIME: 4:30PM-6:30PM
PLACE: Building 4 Room 159

Learn about the outstanding opportunities at GTE for people with varied backgrounds and degrees, before you interview, by attending GTE's On-Campus Information Reception. Talk with our recruiters. Ask questions. Find out about the enormous scope of our operations, and the challenging technical and business careers in electronics and telecommunications that GTE has to offer.

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OPEN HOUSE & INFORMATION MEETING*

Date: October 12, 1988
Time: 5pm - 7pm (Open House)
7pm - 9pm (Information Meeting)

INTERVIEWING

October 13 and 14, 1988

*Attendance at the Information Meeting is mandatory for interviewing.

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ARTS

SinfoNovaSinfoNova SinFantastic!

The Tech Performing Arts Series is pleased to announce its most spectacular deal yet. We've arranged to make \$48 subscriptions for SinfoNova, Boston's finest chamber orchestra, available at MIT for only \$11 for the three concert series.

The concerts, on October 29, February 25 and May 12 include Mozart's *Jupiter Symphony*, *Concerto for Two Pianos*, K. 365 (played by the Paratore brothers) and *Sinfonia Concertante*, K. 364; two *Bach Brandenburg Concerti*; a *Beethoven* symphony and overture; and works by *Strauss*, *Pärt* and *Alfred Schnittke*;

Mozart has always been a very special composer for SinfoNova, whose players have an uncanny ability to simultaneously tap Mozartean pathos and joy, and send the audience away enraptured. But there's something special to everything SinfoNova does, so why not sign up for a subscription at this unusual bargain price?

Please note that there are limits to the number of subscriptions we can accept at this price; orders will be filled in the order of receipt. Please complete the order form in the SinfoNova brochure (only forms stamped with "The Tech" are acceptable; forms are available at

The Tech and at the Technology Community Association, 4th floor, Student Center), including your full mailing address and affiliation with MIT. Mail it with your check payable to "SinfoNova" to Jonathan Richmond, at MIT Room 1-090. Your tickets will be returned by mail

Three great concerts for only \$11!

FILM & VIDEO

The Brattle Theatre continues its Tuesday series *Showcasing New International Cinema* with *Faces of Women* (Desire Ecure, 1985, Ivory Coast) at 4 pm & 8 pm. Admission: \$5 general, \$3 seniors and children. Telephone: 876-6837.

The Harvard Film Archive continues its Tuesday series *Women and the American Cinema* with Josef von Sternberg's *The Scarlet Empress* (1934), starring Marlene Dietrich, at 5:30 & 8:00. Located at the Carpenter Center for the Visual Arts, Harvard University, 24 Quincy Street, Cambridge. Admission: \$3 general, \$2 seniors & children. Telephone: 495-4700.

LECTURES

Poets Charles Stein and Harriet Zinnes read from their works at 8 pm at Boylston Hall, Harvard Yard, Cambridge. No admission charge. Tel: 547-4908.

Wed. Oct. 12

POPULAR MUSIC, ETC.

The Stray Cats perform at Axis, 13 Lansdowne Street, just across from the entrance to the bleachers at Fenway ball park, near Kenmore Square. Tickets: \$15 advance, \$16 at the door. Telephone: 262-2437.

The Titans perform at Johnny D's, 17 Holland Street, Somerville, just by the Davis Square T-stop on the red line. Telephone: 776-9667.

The Radiators perform at the Channel, 25 Necco Street, near South Station in downtown Boston. Telephone: 451-1905.

JAZZ MUSIC

The Mark Isham Band performs at 8 pm at the Somerville Theatre, 55 Davis Square, West Somerville, just by the Davis Square T-stop on the red line. Tickets: \$14.50, \$16.50, and \$18.50 advance, \$2 more at the door. Tel: 625-1081.

CLASSICAL MUSIC

The Boston Conservatory Wind Ensemble performs works by Shostakovich and Malcolm Arnold at 8 pm in Scully Hall, Boston Conservatory, 8 The Fenway, Boston. No admission charge. Telephone: 536-6340.

FILM & VIDEO

The Brattle Theatre continues its Wednesday film series *Distraught Housewives* with *The Stepford Wives* (Bryan Forbes, 1975) at 3:45 & 7:55 and *No Down Payment* (Martin Ritt, 1957) at 5:55 & 10:00. Admission: \$4.75 general, \$3 seniors and children (good for the double feature). Telephone: 876-6837.

*** CRITIC'S CHOICE ***
The Harvard Film Archive continues its Wednesday series *Contemporary World Cinema (1960-85)* with Jean-Luc Godard's *2 or 3 Things I Know About Her* (1966) at 5:30 & 8:00. Located at the Carpenter Center for the Visual Arts, Harvard University, 24 Quincy Street, Cambridge. Admission: \$3 general, \$2 seniors & children. Telephone: 495-4700.

The Institute of Contemporary Art begins its series *The Middle East: Four New Films with Wedding in Galilee* (Michel Khleifi) at 7:00 & 9:15. Continues through Thursday, October 18. Located at 955 Boylston Street, Boston, near the Auditorium T-stop on the green line. Admission: \$4.50 general, \$3.50 ICA members, seniors, and students. Telephone: 266-5152.

LECTURES

*** CRITIC'S CHOICE ***
John Cage begins his series of six *Charles Eliot Norton Lectures* at 4:30 in Sanders Theatre, Harvard University, corner of Kirkland and Quincy Streets, Cambridge. The lectures continue October 26, February 8 and 22, and April 5 and 19. No admission charge. Telephone: 495-2791.

Thursday, Oct. 13

CLASSICAL MUSIC

The Mannheim Quartet performs works by Mozart, Haydn, and Viotti as part of the MIT Thursday Noon Chapel Series at 12:05 in the MIT Chapel. No admission charge. Telephone: 253-2906.

Organist Victoria Sirota and pianist Lois Shapiro perform works by Elizade, Ptashko, Martin Brody, Peter Liberson, and Robert Sirota as part of the US-USSR Young Composers Exchange: "Music for Keyboard" series at 4 pm at the First and Second Church, 66 Marlborough Street, Boston. Tickets: \$5 general, \$3 seniors and students. Telephone: 437-0231.

*** CRITIC'S CHOICE ***
Sueños is presented by The Boston Musica Viva and Mahou Mines theater company at 8 pm in Alumni Auditorium, Northeastern University, Huntington Avenue, Boston, near the Northeastern T-stop on the Arborway green line or the Ruggles T-stop on the orange line. Also presented October 14 and 15. Tickets: \$10 and \$12.50. Telephone: 353-0556.

The Boston Quartet performs Brahms' *String Quartet in A Minor, Op. 51, No. 2*, at 12:30 in the Federal Reserve Bank of Boston auditorium, 600 Atlantic Avenue, across from South Station in downtown Boston. No admission charge. Telephone: 973-3454 or 973-3368.

THEATER

*** CRITIC'S CHOICE ***
An Evening of One-Act Plays is presented by MIT Dramashop at 8 pm in Kresge Little Theatre. Also presented October 14 and 15. No admission charge. Telephone: 253-2877.

FILM & VIDEO

The Brattle Theatre continues its film series *Truffaut Thursdays* with *Fahrenheit 451* (1966) at 3:45 & 7:45 and *The Green Room* (1978) at 5:50 & 9:55. Admission: \$4.75 general, \$3 seniors and children (good for the double feature). Telephone: 876-6837.

The Museum of Fine Arts presents the New England Premiere of *Rachel River* (Sandy Smolan, 1987), with the director and Pamela Reed present, at 8 pm. Admission: \$6 general, \$5 MFA members, seniors, and students. The MFA also begins its series *Mummies on Film* with *The Night of Counting the Years* (Shadi Abdelsalam, 1969) at 5:30. Admission: \$4 general, \$3.50 MFA members, seniors, and students. Located at the MFA, 465 Huntington Avenue, Boston. Telephone: 267-9300.

LECTURES

Marie Laberge, Quebec's noted playwright and actress, speaks about her art at 7 pm at the French Library in Boston, 53 Marlborough Street, Boston, near the Arlington T-stop on the green line. Admission: \$5 general, \$3 Library members, seniors, and students. Telephone: 266-4351.

CIRCUS

*** CRITIC'S CHOICE ***
The Ringling Bros. and Barnum and Bailey Circus is presented at 7:30 at the Boston Garden, Causeway Street, Boston, near North Station T-stop on the green and orange lines. Continues through October 23 with performances at noon, 4 pm, and 8 pm depending on date. Tickets: \$10.50 to \$12.50 general, \$1.50 off on children under 12. Telephone: 227-3200.

Friday, Oct. 14

POPULAR MUSIC, ETC.

Heretix performs at the Channel, 25 Necco Street, near South Station in downtown Boston. Telephone: 451-1905.

Rick Berlin, Runaway Dan, and Funhouse perform at the Rat, 528 Commonwealth Avenue, Kenmore Square, Boston. Telephone: 536-9438.

CLASSICAL MUSIC

The MIT Brass Ensemble performs at 12 pm in the Hayden Library Building Courtyard (rain location: Elizabeth Killian Hall (14W-111)). No admission charge. Telephone: 253-2906.

The Boston Symphony Orchestra, Seiji Ozawa conducting, performs Brahms' *Piano Concerto No. 2* and Beethoven's *Symphony No. 7* at 8 pm in Symphony Hall, corner of Huntington and Massachusetts Avenues, Boston. Also presented October 15. Tickets: \$16 to \$42.50, \$5 student rush tickets available day of show. Telephone: 266-1492.

The Lydian String Quartet performs works by Firsava, Tschauschjan, Peter Child, Thomas Oboe, and Stravinsky as part of the US-USSR Young Composers Exchange: "Music for String Quartet" series at 8 pm at the Longy School of Music, Garden and Follen Streets, Cambridge. Tickets: \$5 general, \$3 seniors and students. Telephone: 437-0231.

DANCE

Liz Lerman/Exchange and Dancers of the Third Age perform at 8 pm as a presentation of Dance Umbrella at the Suffolk University Theatre, 55 Temple Street, Beacon Hill, Boston. Also presented October 15 at 8 pm and October 16 at 3 pm. Tickets: \$12 general, \$10.50 Dance Umbrella members, seniors, and students. Tel: 492-7578.

FILM & VIDEO

The MIT Lecture Series Committee presents *A Night at the Opera*, starring the Marx Brothers, at 7:30 in 54-100 and *Cry Freedom* (Richard Attenborough) at 6:30 & 10:00 in 26-100. Admission: \$1.50. Telephone: 258-8881.

The Brattle Theatre continues its Friday/Saturday series *Hollywood Through the '50s: Films of the Cold War with High Noon* (Fred Zinnemann, 1952), starring Gary Cooper and Grace Kelly, at 4:00 & 7:55 and *Johnny Guitar* (Nicholas Ray, 1954) at 5:45 & 9:40. Admission: \$4.75 general, \$3 seniors and children (good for the double feature). Tel: 876-6837.

Upcoming Events

Penn and Teller at the Colonial, October 18 to November 13. Toni Childs at the Paradise on October 20. Prince at the Worcester Centrum on October 20, 21, and 22. Sonie Youth at the Somerville Theatre on October 27. Moscow Classical Ballet at the Wang Center, November 4 to 6. Los Lobos at the Berklee Performance Center on November 9.

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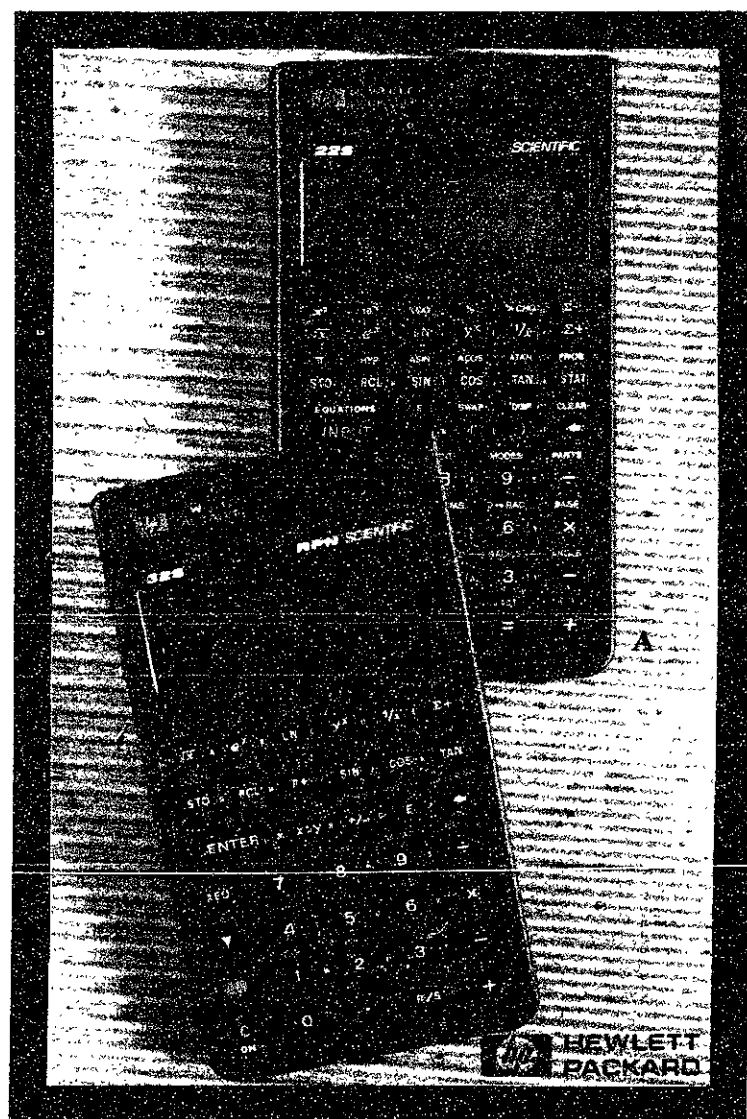
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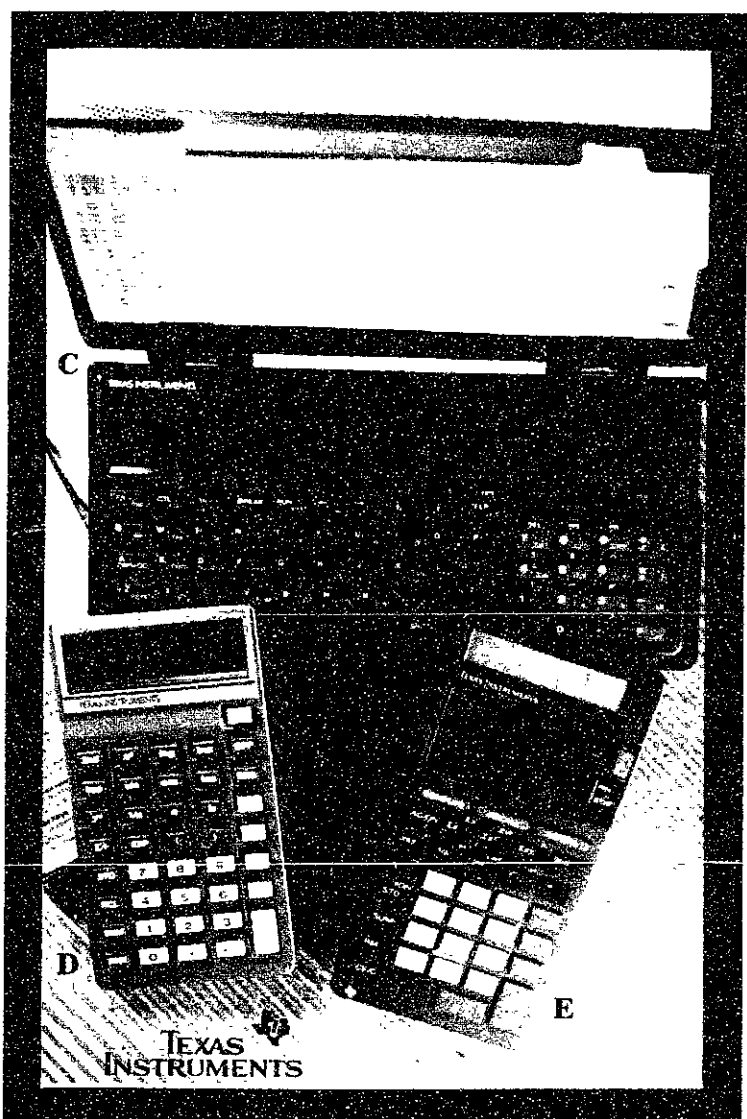
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Departments to administer Phase II

(Continued from page 1)

Department of Mathematics, was asked by the department chair to take on the position. Kleiman said he took the position because he "cares about good work and finds it rewarding to help people."

The math department is unique in that its program has been going on for the past two years, Kleiman said. The basic process is that after a student writes a paper, he gives it to his instructor. The instructor then vouches for the technical content and comments on the quality of writing. The paper is then brought to the department office where each paper is read.

The paper is judged to be either good or in need of rewriting. If the paper needs to be rewritten, it is given to writing TAs who then go over the paper with the student. The student rewrites the paper, and then resubmits it. About half of all papers need to be rewritten, Kleiman said.

This system has "worked well," Kleiman said, and now the math department has a six-person committee to run the program and handle borderline cases.

Two other changes in satisfying Phase II

The Writing Requirement Office has also instituted two other major changes in the way students satisfy Phase II.

The number of cooperative technical subjects in which writing is incorporated have been expanded, Perelman said. Students can use these subjects to satisfy Phase II.

Perelman stressed that these cooperative subjects are in line with a national movement toward integrating technical and writing subjects. As Perelman put it, "Rather than teaching writing as a separate course, it is being taught with the technical course a student takes." Writing cooperatives have existed in some form at MIT since 1957, though they were only formally established as a program in 1976.

In addition to structural changes, the revisions also include stricter and firmer rules for enforcing deadlines. Although there have always been deadlines for satisfying the Phase II requirement, they have never really

been enforced, according to Perelman.

In the future, students who do not meet the deadline will be forced to take a writing class the next term, Perelman said. In this way, seniors will be forced to take the consequences if they procrastinate on Phase II, Perelman noted. Compelling a senior who has not satisfied Phase II to take a writing class will also alleviate the worry about not graduating in the spring term and will allow him to concentrate on looking for a job, applying to

graduate schools, or achieving certain degrees.

Perelman noted that two seniors did not graduate last year because they did not fulfill Phase II. No exceptions will be given this year either if seniors do not complete the requirement, he affirmed.

This year, students need to find out from their department when the deadline is for satisfying Phase II of the writing requirement. Next year, the deadline will be the end of the fall term of the senior year, Perelman said.

Rick Hauck commands space shuttle *Discovery*

(Continued from page 1)

In 1965, Hauck became the first thesis student for Professor Michael J. Driscoll NuclE '64. What Driscoll remembers of his student was a "very well-organized, very bright" kid who did "a great job on his thesis on a nuclear reactor." Hauck was very interested in nuclear engineering, but Driscoll was not sure if he had a deep interest in space at that time. Other professors were working on the space program, but Hauck chose to do a nuclear engineering thesis, Driscoll noted.

Driscoll did remember that Hauck was going on to flight school after getting his degree. Hauck always "knew what he was doing, did a good job," Driscoll said. "I'm certainly proud of him."

Hauck started his Navy service by flying 114 combat missions in Vietnam. He then became a test pilot.

MIT so far has produced the second highest number of astronauts, a total of 16. The US Naval Academy has 28, with the Air Force Academy a close third behind MIT at 15.



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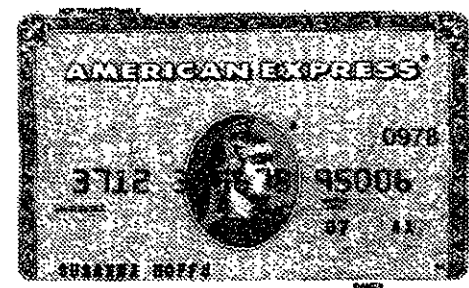
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Erratum

Because of an editing error, the article "Provost calls for new R/O committee" (Sept. 30) misstated Undergraduate Association President Jonathan Katz's position. Katz believes a committee should focus on the entire housing situation, rather than "looking at little parts."

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sports

Graduate students top IM cycle race

By Dan Connelly

A pair of graduate students carried the day in the annual MIT intramural cycling road race. Mike Lagasse G sprinted to

IM Cycling

Overall

1. Mike Lagasse G
2. Mark Drela, DTD
3. Matt Thompson '89, TX
4. Steve Parker, DTD
5. Andy Parsons '91, TX
6. Gary Breton G
7. Richard Pawlawicz
8. Keith Dionne G, ChemE
9. Brad Layton '92, DP
10. Jarad Sumner G, ChemE
11. Terry Totemeyer '91, TX

Women

1. Laura Miller G
2. Illana Stern G
3. Kumiko Murasugi G

tion, and Laura Miller G placed first among the women. Theta Xi won the team trophy.

Fifty-three riders started the three-lap, 32.8 mile contest. A large group of cyclists remained bunched together at front throughout much of the race. The group, numbering 20, completed the first lap in a fast 27:03. Although the pace later slowed, the pack's ranks were reduced to ten by the finish of the third lap.

As he rounded the last turn before the finish, Lagasse sprinted into the lead for good, winning with an average speed of 23.25 mph. Closely following were Mark Drela '92 and Matt Thompson '89.

A trio of graduate students dominated the women's race;

Laura Miller G, Illana Stern G, and Kumiko Murasugi G worked together in a paceline most of the race. With half a mile to go, Miller caught the draft of passing cyclist Albert Lew '91 and rode on to win. Stern edged out Murasugi in a sprint for second.

Despite strong efforts from Delta Tau Delta and Chemical Engineering, Theta Xi won the team award. Matt Thompson '89 and Andy Parsons '91 finished in the lead pack of ten for the house, with Thompson earning a ten-second time bonus for his third-place finish. Teammate Terry Totemeyer '91 flatted a half mile from the end but rode on to finish soon enough to secure the trophy for Theta Xi.

victory in Saturday's competi-

Beaver offense falls flat in 12-7 loss to Warriors

(Continued from page 24)

had control of the ball, which he bobbled and dropped.

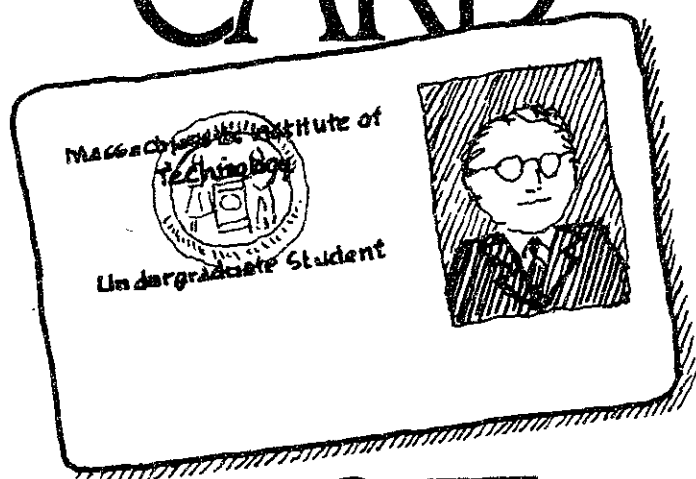
With time running out in the fourth quarter, MIT began to get desperate. Trick plays, such as a reverse from LaHousse to Lapes, didn't fool anyone.

The MIT defense gave the offense one last chance, as they continued to stay tough. Matt Britton '91 came up with a key stop on third down, one of the few times that evening Merri-

mack was unable to turn the corner on a sweep.

MIT had the ball on their own 14-yard line and two minutes to go. But the Warrior defense smelled victory, and came swarming in. The Beaver line collapsed under the onslaught, and after the right and left defensive ends met in the middle of Day's chest for a sack on second down, they caught Day again in the end zone on the next play for a sack, a safety, and a victory.

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Ray T. Powell/The Tech
Sprinting up the field, Jessamy Tang '89 puts the pressure on Mount Holyoke opponents with teammates Vanessa Feliberti '92 and Azza Idris '91 following up. See story page 23.

MIT wins Salem State tourney

By Nyla Hendrick

The MIT women's volleyball team captured the Salem State Invitational Championship this past weekend, thus improving their match record to a flawless 17-0 overall.

During the course of the two-day tournament, the Engineers soundly defeated Salem State College, Fitchburg, Eastern Nazarene College, Rogers Williams College, Southeastern Massachusetts University, Gordon and Eastern Connecticut State College. All teams are regionally ranked and four are being considered for national contention.

Although the team got off to a slow start, strong performances in serving, hitting, and digging by all team members helped bring the tournament to a victorious end. An all-around outstanding performance by Cecilia Wapinski '90 led her to be selected to the all-tournament team.

This week, the team travels to Brandeis University on Tuesday and Gordon College on Saturday where they hope to continue their winning streak.

(Nyla Hendrick '92 is a member of the women's volleyball team.)

Women's Volleyball

10/1- MIT 2(15-13, 15-2)	Salem St 0
10/2 MIT 2(15-5, 15-9)	Fitchburg 0
MIT 2(13-15, 15-2, 15-7)	E Nazarene 1
MIT 2(15-13, 13-15, 15-11)	R Williams 1
MIT 2(15-2, 15-11)	SMU 0
MIT 2(15-10, 15-9)	Gordon 0
MIT 2(15-1, 13-15, 15-8)	Eastern CT 1

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sports

Bentley bests MIT baseball

By Manish Bapna

The MIT men's varsity baseball team suffered a heartbreaking loss Friday afternoon to Bentley College. Near the end of the game, however, more concern was given to Scott Williams '90 who was hit by a pitch near his left temple. The ball caught him right underneath the helmet. Williams was down by the plate for over 20 minutes. Finally, an ambulance came to take him to the hospital where he eventually was released after an examination. Although he did need several stitches for the cuts, the possible outcome could have been much worse.

Men's Baseball

Bentley	0	0	1	2	0	0	1	4	5	0
MIT	0	0	0	0	0	0	0	0	0	0

The game started off on a positive note when MIT scored their first run in the bottom of the third. After a groundout, Eric Hopkins '92, MIT's starting pitcher, walked and took second on a passed ball. He moved up to third on another groundout, and came home on an infield single by Kevin Tow '89. Tow promptly stole second but was stranded there as Bentley's ace fanned the next batter.

Bentley came straight back with two runs in the top of the next inning. After an infield single, Bentley executed the hit-and-run to perfection — a liner between first and second resulted in runners on the corners with no one out for the Falcons. A groundout to the shortstop scored the first run for the Falcons, while the runner at first advanced to second. A blooper to

right brought the next run in as Bentley threatened to rally even further. Another picture-perfect hit-and-run came through for Bentley, but Hopkins ended the inning by forcing a groundout from the next batter.

MIT came close in the bottom of the fifth and seventh innings but couldn't bring another run home. Hopkins was again the pivotal player in both of these rallies. Unfortunately, no one came up with the clutch hits for the Engineers. Bentley's pitchers had definitely something to do with this ineffectiveness as they struck out 16 batters. The two pitchers struck out the side three times while only allowing three hits in the entire game.

In the top of the eighth, the Falcons added one to their score off a single and some good baserunning. In the ninth, they scored once again to finalize the score at 4-1. MIT's offense could not get itself started against the two big Bentley hurlers. However, there is good news in that

Williams is healthy. Otherwise, this game might have been a much more painful loss for MIT to swallow.

* * * * *

On Saturday, the Engineers played a double-header against the University of Massachusetts at Boston and came away with two promising victories. In the first game Eric Hopkins '92 again had an amazing game with four RBI's as MIT handily won both games 8-4 and 5-1. Another freshman stole the spotlight in the second game. Matt Gimre '92, a lefty starter for MIT, went the distance, allowing only three hits and one run while striking out five. Manager Fran O'Brien was very pleased with the performance of his relatively young and inexperienced team. "We have made excellent progress since September 1 in preparing ourselves for the spring season."

MIT will be hosting Wentworth Institute at 3:30 Friday afternoon.



Ken L. Church/The Tech
Charlie Freeman '91 wings the ball towards first base. MIT beat UMass Boston 8-4 and 5-1 in a doubleheader.

Textile Regatta opens crew season for women

By Beth Jones

The MIT women's novice and varsity crews raced this past Sunday in the Textile Regatta. Even though this was the first race of the season all the teams raced well, especially the varsity crews who competed at a higher level than in years past. The varsity's first boat competed in the championship eight race, the most competitive of the women's events.

The three mile head races were held on the Merrimack River in Lowell. In a head race, crews start one at a time in ten second intervals and the crew with the fastest time over the three mile course wins. Starting sixth out of nine boats, the championship eight had a good position for overtaking boats who started before them. MIT started well and passed two boats, Connecticut College and Colgate, within the first mile.

Next MIT started moving up to pass Boston University's second boat. BU would not give way to let MIT pass, which cost BU a 30 second penalty. After a grueling two miles of head to head racing with BU, MIT finished the race with a time of 20:26. The time was good enough for third place. They were beaten by BU's first boat (20:07), and University

of Massachusetts (20:17).

MIT's second eight raced in the club eight event. They raced well, but were disappointed about losing to the first place boat, Colgate, by only two seconds. MIT's second place time was 21:16.

The best finishers of the day were the lightweight four of Lola Matysiak '91 (stroke), Laura Beecroft '91, Catherine Anderson '90, Karen Lewis '89, and Tricia Roxas '89 (coxswain). They came in first out of six boats with a time of 23:26, 22 seconds ahead of the second place boat, Riverside.

The novices raced in four boats of eight and came in second, eighth, 10th, and 11th. The first boat was beaten by a more experienced boat from Worcester Polytechnic Institute. The second novice eight was handicapped when one of the riggers tore loose from the boat and they were not able to have all eight row at once.

The varsity coach, Mayrene Earle, was pleased with the results and is looking forward to improving and winning some more races this fall. The women will race next this Saturday in the Mount Holyoke Women's Regatta.

(Beth Jones '90 is a member of the women's varsity crew team.)

Soccer falls short against Holyoke

By Al Armendariz

The MIT women's soccer team lost a close but disappointing game against New England Women's Eight Conference rival Mount Holyoke College by a 2-1 score last Friday. Though MIT scored first, and seemed to be on their way to victory, the combination of excellent saves by the Mount Holyoke goalie and their relentless offense gave the Lyons control of the game and victory.

The Engineers took the lead on a straight ahead power play midway through the first half on a goal by Lorraine Cirillo '90. This goal, along with several excellent saves in the first quarter of the half by the MIT goalie Susie Wee '90, raised the spirits and the en-

ergy level of the team. However, the MIT women were not able to coordinate an effective offensive attack.

Mount Holyoke then scored on a textbook head-in goal that tied the game at one apiece only minutes before halftime. This goal seemed to drain the energy from the Engineers and the Lyons carried this momentum into the second half.

Women's Soccer

MIT	1	0	0	0	0	0	0	0	0	0
Mount Holyoke	0	0	0	0	0	0	0	0	0	0

Mount Holyoke started the second half applying constant of-

fensive pressure on the MIT women. This led to the second Lyon goal just minutes into the half and gave them the lead for good, 2-1. The game was scoreless the rest of the way as the defenses tightened up and neither offense was able to move effectively.

With only minutes to go before the final whistle, the Engineer offense came alive, and took five runs towards the Mount Holyoke goal within two minutes. But all five attempts failed to produce a goal, and when MIT could not convert a last-chance corner kick, the Lyons came away victorious.

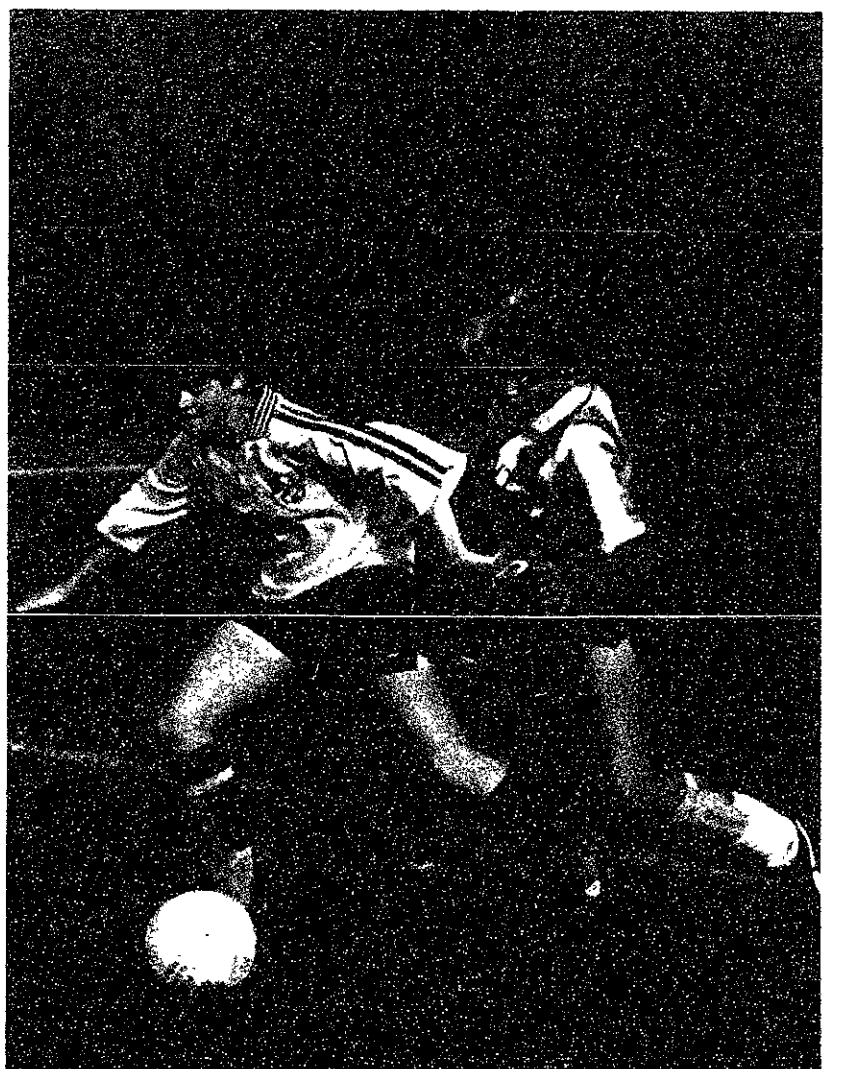
The team will face off against conference opponent Wellesley College today at 7 pm on Jack Barry Field.



Ken L. Church/The Tech
Mike Griffin '89 bats against Bentley on Friday. The Engineers lost 4-1.



Ray T. Powell/The Tech
Stepping in with style, Azza Idris '91 catches a Mount Holyoke opponent by surprise in Friday's soccer game.



Ray T. Powell/The Tech
"That ball's mine," says the determined look of Eileen Murphy '89, during the women's soccer game against Mount Holyoke last Friday.

sports

Football flat in 12-7 loss to Merrimack



By Harold A. Stern

Maybe it was because of the natural letdown after a big win on opening day. Maybe it was because they were not used to playing at night. And maybe it was because they stayed up too late Thursday night completing problem sets. But whatever the reason, the MIT varsity football team lost a game they should have won Friday night, and they lost because they were up against a Merrimack College squad that just played harder. Dropped passes, trick plays that failed, and offensive collapses in key situations made the difference in the Beavers' 12-7 defeat.

MIT faced a tough Warrior club team which was playing to prove that they were talented enough to play in Division III. The Engineers came armed with a different offense than the overpowering machine which rolled up 419 yards on the ground in the 29-7 victory over Stonehill College just one week ago. This unit, disguised in MIT's cardinal-and-gray uniforms, was pushed all over the field by the Warrior defense and managed a mere 48 yards rushing on 34 carries.

Shane LaHousse '90, who had 260 yards in the Stonehill romp, suffered a mild concussion on the game's opening drive; although he did return to action, he had trouble recognizing his teammates and remembering the plays. Even if he was playing at 100 percent, it might not have mattered. The Warrior defensive front took control of the line of scrimmage, and the Beaver offensive line was unable to open up holes for the ballcarriers or protect quarterback Tim Day '89 when he dropped back to pass. "We just weren't into it," LaHousse said later.

On the plus side for MIT, the Beaver defense, a question mark before the season started, put in its second consecutive solid performance and kept MIT close throughout the game. Linebacker Darcy Prather '91 (19 tackles, ½ sack) and defensive linemen Rodrigo Rubiano '92 (17 tackles, ½ sack) and Shin Hirose '90 wreaked havoc with the Warrior

offense, coming up with big plays to shut down several scoring opportunities.

The game started slowly, as neither offense was able to mount a drive. Both teams played remarkably similar styles of play, keeping the ball on the ground without much success against solid defensive fronts and aggressive linebackers.

The Beavers broke the scoreless tie first in the second quarter. A conversion on a fourth-and-short and a Warrior penalty on a key play sparked the Beavers' only sustained drive of the day. After the conversion at the Merrimack 22-yard line, it looked like any other MIT possession; the Warriors nailed the Beaver ballcarriers behind the line on first and second down, sacked Day for a loss of 13, then stopped LaHousse far short of the first down. But a defensive holding call on the fourth-down run gave Day another chance, and he connected with Anthony Lapes '89, who made a beautiful sideline catch just past the first-down marker.

On first-and-goal, Garret Moose '91 bulldozed through the left side for five. Then Day faked a handoff to LaHousse and kept it himself, going around the right end for the touchdown and a 7-0 lead.

With the ball in Merrimack's hands, the Beaver defense gave up some ground but stiffened the closer they got to the end zone. At the MIT 24-yard line, Hirose caught fullback Tim Sirard behind the line for a loss of one, Rubiano chased quarterback Paul Burns into Prather's arms for a share of a sack, and Hirose hit Burns as he attempted a screen pass to Sirard, who was stopped short of a first down. On fourth down, the entire Beaver defensive front piled on Mark Branchaud in the backfield.

After an MIT punt, the Warrior offense got in gear again, this time turning to the air. Defensive back Mark Naugle '90 slipped when dropping back to cover wide receiver Chris Mato-sic, who Burns connected with for a 33-yard completion. A late hit from an MIT defender compounded the error, giving Merrimack a first-and-goal on the nine. Again the defense played tough, as Justin Glotfelty '92, Lawrence Donohue '90, and Paul Anderson '90 stopped Merrimack short. The Warriors settled for a field goal with 30 seconds left in the half.

But even worse for MIT than the three points was that Naugle sat out the remainder of the game with a twisted ankle. The

loss of the co-captain hurt the Beaver secondary, as the Merrimack offense which relied on running backs Sirard and Branchaud in the first half began to have success throwing the ball in the second half.

The Warriors came out at half-time inspired. They unveiled the play which would haunt the Beaver defense throughout the rest of the game — Burns would roll out, with a receiver about ten yards down the field. If the defense came up to stop Burns, he'd connect with the receiver. If they dropped back, Burns would turn the corner for a good gain.

Merrimack used the option pass to get to the MIT 32-yard line, then after a quarterback sneak on fourth-and-inches kept the drive alive, used it again for a touchdown. The Beaver defense suffered one of their rare mistakes on the scoring play, as the Warriors flooded the right corner of the end zone, and defensive back Brian Teeple '91 found himself covering three receivers.

MIT also tried to get its offense in gear by turning to the air, but unlike Merrimack, was

unable to complete passes in pressure situations. The Beavers tried a long lob pass to Lapes, who went streaking down the right sideline on a timing pattern, but Day was unable to connect. A screen pass to LaHousse was good for a first down, but the drive stalled. On fourth down, Moose, a fullback who doubles as the punter, faked a punt and tried to run for a first down.

The coaching staff had been telling him for weeks that if he saw the defense turn around too soon to set up a return he should try to run, Moose explained. He was so surprised when Merrimack started to drop back that he "forgot to take two steps" and pretend to kick before running; "one of the Warrior cornerbacks hadn't turned around yet," he added. The Merrimack defender stopped Moose short of the first down, and ended MIT's last drive of the day.

After the Beaver defense stopped Merrimack short again on a fourth-and-two, the play which broke the Beavers' back occurred: Day, changing the play sent in from the sidelines, sent

Merrimack 12, MIT 7

MIT Beavers	0	7	0	0	-	7
Merrimack Warriors	0	3	7	2	-	12

MIT — Day 5 run (Ahrens kick) 10:45
MER — Grasso 21 field goal 0:30
MER — Parks 7 pass from Burns 2:57
MER — Day sacked in end zone 0:54

Attendance — 200

	MIT	MER
First downs	8	14
Rushes-yards	34-48	48-127
Passing yards	42	100
Passes	4-11-0	7-13-0
Net yards	90	227
Gain per play	2.0	3.8
Return yards	39	31
Punts-yards	4-126	3-93
Fumbles-lost	0-0	1-0
Penalties-yards	4-24	8-55

Individual Leaders

Rushing — MIT, LaHousse 11-46, Moose 9-12, Drobnik 1-2, Lapes 1-1, Day 1-12 MER, Sirard 17-65, Parks 21-62, Burns 7-16
Passing — MIT, Day 4-11-0-42 MER, Burns 7-12-0-100, Whitey 0-1-0-0
Receiving — MIT, LaHousse 2-14, Drobnik 1-10, Lapes 1-18 MER, D'Antona 2-35, Matosic 1-33, Volger 1-14
Sacks — MIT, Prather 15, Rubiano 16
Tackles — MIT, Prather 18, Rubiano 17, DeSantis 7, Glotfelty 7, Wang 6, Donohue 6, Anderson 5, Ahn 5, Teeple 5, Ahrens 5

Lapes deep on third down. The Beavers' leading receiver was wide open inside the Merrimack 20, but he turned and started to head for the end zone before he
(Please turn to page 21)



Ching H. Chao
Michael Dorsch '90 celebrates after a successful shot on goal. The men's soccer team rallied against Bates in last Friday's game to win 2-1.

Field hockey's road woes continue

By Adam Braff

Although the MIT field hockey team has performed well on the artificial surface at home, they have been disappointing away from the comforts of Jack Barry Field. The Engineers dropped the first two games of a four-game road trip last week. Thursday's loss by the score of 5-1 was at the hands of arch-rival Wellesley College, and Clark University edged the Engineers with a 1-0 shutout on Saturday. These defeats dropped MIT's away-game record to 0-3 and its overall record to 3-3.

The team had hoped to get revenge on Thursday against a Wellesley squad that had beaten MIT twice last year, once by a large margin. But the Beavers had lost five starters from last year, including one all-state halfback, and would have shocked more than a few fans with a win.

It was generally agreed that the keys to the game would be good passing and good coverage on Wellesley's star forward and high scorer, Jess Gosnell. Unfortunately, the latter strategy proved difficult to implement when, 28 seconds into the game, Gosnell scored after a quick series of saves by Engineer goalie Helen Shaughnessy '92.

MIT quickly reversed the momentum when Christine LeViness '89 poked in a rebound in front of the Wellesley net. The rest of the half continued back and forth with several short corner attempts blasted wide by Wellesley's Robin Chioffi and by MIT's right wing, Kirsten Domingo '90.

The toughness of the Tech squad was violently demonstrated when left link Arlene Yang '91 broke the business end of her stick. Wellesley kept pressuring the visitors, keeping the ball in the MIT half of the field late in the period, peppering the Tech goal with 13 shots, and generally cashing in on poor officiating when Gosnell smacked the ball in off Shaughnessy's pads for the second of her four goals.

Field Hockey

9:29	Wellesley College 5	MIT 1
10:1	Clark University 1	MIT 0

Things went from bad to worse in the second half with a goal by Wellesley's Chioffi on an early short corner. The visiting team, seemingly demoralized by the early scoring and the pathetic officiating, let in two more goals by the overpowering Gosnell. MIT had a chance to reduce the scoring gap in the last few seconds, but the referee called game moments before the shot trickled in past Wellesley's goalie, Muffy Bloch, who finished the game with 12 saves to Shaughnessy's 14.

After the game, Engineer head coach Lou Jandura said her team "played much better than the score would indicate" and graciously called it a "very well played game on both sides." When asked about any particular weaknesses on her squad, she conceded that MIT had trouble

clearing out the circle in front of the goal and would have to work on their passing for the game against Clark.

In Saturday's game, the first 25 minutes were marked by even play on both sides and featured a quick glove save by Shaughnessy on a penalty shot by Clark's Marcy Vincent. Near the end of the half, however, the home team scored when right inner Amy Flynn knocked in a rebound in front of the MIT net. The beginning of the second half was unremarkable, with several short corner attempts missed on both sides due, in part, to the poorly-tended field and the 85-degree heat.

Clark halfback Angela Mondazzi was hit in the face with a deflected ball and had to leave the game, but came back later out of necessity, as Clark had only one substitute player. In the final minutes, Cecilia Linnell '92 had a chance to tie it up for the Engineers, but her shot went just wide of the Clark net.

The coaches and the team were visibly disappointed with the 1-0 loss, but are looking forward to today's away game against Simmons. Right halfback Chantal Moore '91 explained the loss: "We played a hard game and let up a little, so they scored. We held them off for the rest of the game... it was one of our better games." If the Engineers start to perform on the road in the next few games, they will have a shot at being the best team around.

Upcoming Home Events

Tuesday, October 4

- 3:00 Men's Soccer v. Brandeis University
7:00 Women's Soccer v. Wellesley College
3:30 Women's Tennis v. Brandeis University

Thursday, October 6

- 3:30 Women's Tennis v. Babson College

Friday, October 7

- 3:30 Baseball v. Wentworth Institute
3:30 Men's Soccer v. Northeastern