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MIT presents package on educational reform

CFYP report: End freshman 2nd term P/F

By Niraj S. Desai

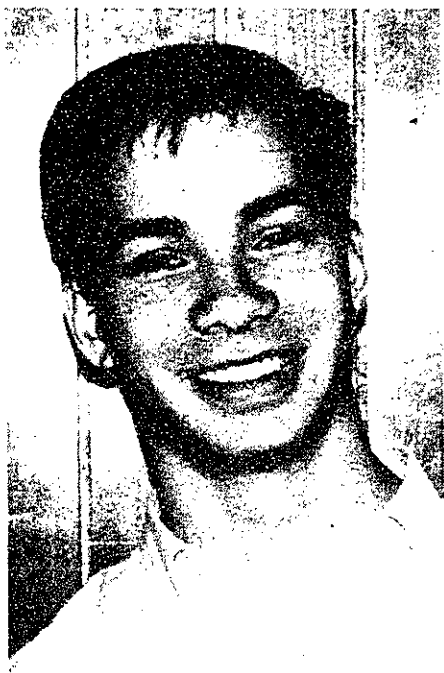
A report calling for the elimination of second-term freshman pass/no-credit grading will be introduced at the Feb. 15 faculty meeting, according to Dean for Undergraduate Education Margaret L. A. MacVicar '65. The document also proposes a system under which students would be able to take one credit/no-credit subject per term beginning in the second term of the freshman year.

The Report of the Committee on the First-Year Program is one of three reports that will form the basis for this spring's discussion of educational reform, MacVicar wrote this week in a letter to all undergraduate students. The other two documents were written by an *ad hoc* committee of the Student Committee on Educational Policy, and by the Science-Engineering Working Group.

After an intensive period of discussion and debate, the faculty will likely be asked to vote on parts of the SEWG and CFYP reports at its April 19 meeting, according to MacVicar.

The CFYP proposal was first publicized last spring when it drew heated criticism from many students at two open forums that the committee held. In response to that criticism, the committee modified its document slightly.

Undergraduate Association President Jonathan Katz '90, who opposes the CFYP plan, said that it would require a substantial effort in order to block passage of the proposal.



Lisette W. Lambregts/The Tech
Jonathan Katz '90

Copies of all three reports were mailed to the UA, SCEP, and *The Tech* last Friday by MacVicar.

Elimination of second term pass/no-credit

The committee, which is chaired by Professor Kenneth R. Manning, calls for elimination of both second-term freshman pass/no-credit grading and the two-subject pass/fail option available to juniors and seniors.

The Manning Committee recommends that the Institute instead adopt a system under which:

- Students would be allowed to take at most one credit/no-credit subject per term, for a maximum of seven classes.

- Credit would be given only for grades of "C" or better; the current pass/fail system gives credit for "D" work.

- At most two credit/no-credit subjects could be used to satisfy a requirement.

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Group proposes integration of biology into core

By Annabelle Boyd

The Science-Engineering Working Group's proposal to modify the Institute requirements to include a two-semester sequence of subjects in chemistry-materials-biology will be presented to the faculty on Feb. 15, according to Dean for Undergraduate Education Margaret L. A. MacVicar '65.

The proposal is contained in a report that was recently released along with two others by MacVicar's office. The reports are to be the foundation upon which efforts to reform MIT's undergraduate education will be based this term. The other two reports are *The Report of the Committee on the First-Year Program* and the report of an *ad hoc* committee of the Student Committee on Educational Policy.

Parts of the SEWG and CFYP reports will likely be voted on at the April 19 faculty meeting, according to a letter MacVicar sent to all undergraduate students this week.

Heading the SEWG report was a proposal that called for the creation of a two-term integrated course which would combine chemistry, materials science, and biology. This two-term course would correspond with the 18.01-18.02 and 8.01-8.02 sequences already an established part of the freshman curriculum.

According to the group, the two-term integrated sequence is a necessary core curriculum reform because "in the last 25 years the area of biology has developed to the point where it should be considered as a fundamental part of an undergraduate course focused on science and technology. Additionally, both molecular chemis-

try and solid state chemistry are considered fundamental."

SEWG was formed by Dean of Science Gene M. Brown and Associate Dean of Engineering Jack Kerrebrock and co-chaired by Chemistry Professor Robert J. Silbey and Mechanical Engineering Professor David N. Wormley '62.

To accommodate the increase from the current required single term of chemistry to the two-term chemistry-materials-biology sequence, SEWG recommended the reduction of the Institute science distribution requirement from three subjects to two subjects.

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Tech File Photo
Dean Margaret L.A. MacVicar

Rent Board decides to exclude UPark evidence

Niraj S. Desai

The Cambridge Rent Control Board voted last Wednesday to exclude evidence of the impact of the University Park development when it decides whether to grant MIT a removal permit for five houses on Blanche and Green Streets. The move appears to be a setback for community groups who claim that MIT has not shown enough concern for the houses' tenants or for the city's housing needs.

The houses are on the site of a 350-room hotel and conference center, part of MIT's University Park project.

In March, the board granted MIT's request for a permit to remove the 12 apartments — four of which are occupied — in those houses from the rental market. But that ruling was vacated by Middlesex County Court Judge Joseph Mitchell in October. The judge found that the board had used incorrect procedures when it excluded evidence of the negative impact of the development on low- and moderate-income housing in the city. Wednesday's hearing was held in response to that ruling.

William S. Noble, one of the tenants, said that a legal complaint was filed yesterday against the board's Wednesday decision.

Mitchell also found in October that the process had been compromised at the original hearing because two different proposals were considered. MIT had initially offered to provide 12 rent-controlled apartments and six market-value apartments in exchange for the removal permit. But the

board ruled that it would only grant the permit if MIT changed its petition to make all the apartments subject to rent control. MIT agreed, but opponents argued that they had not been allowed sufficient opportunity to respond to the revised petition.

As a result, another hearing will be held on Feb. 15 for the board to hear the revised petition again. At that time, the board might regrant MIT the removal permit which would allow it to demolish three of the houses and move the other two.

At Wednesday's hearing, John L. Mason Jr., an attorney representing one of the tenants, argued that Mitchell had ordered the board to send the case to a hearing examiner who would collect evidence on the impact of University Park on the city's housing. Instead, the board decided to hold a hearing in which it asked opponents of the removal permit to present proof that there was sufficient reason to collect such evidence.

"We object to the procedure," Mason told the board. He charged that the board was deliberately ignoring the judge's instructions. "The court's order speaks for itself . . . the court does require a fact-finding hearing." He added that it was inappropriate for the board to ask the tenants for offers of proof. The complaint filed yesterday seeks to find the board in contempt of Mitchell's ruling.

MIT's attorney, Scott Lewis, countered that the tenants "have

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IAP credit courses set record

By David Rothstein

The 36 credit-bearing activities offered during the 1989 Independent Activities Period — although comprising a small fraction of more than 700 courses, workshops, lectures, and other programs — marked an all-time record, according to Mary Z. Enterline, head of the IAP Office.

The credit courses ranged from one-unit, one-day workshops on real estate to full 12-unit courses on genetics and intensive language studies. In addition to

these 36 classes offered at MIT, three 12-unit language courses — Chinese, French and Spanish — were offered at Wellesley College.

Approximately 625 students participated in the credit courses offered at MIT. Of those, about 320 took courses that carried fewer than six units, about 140 took six-credit courses, about 80 took nine-unit courses, and about 90 took 12-unit courses. The enrollment figures, obtained directly from course instructors, are not precise because several in-

structors have not yet received final projects from students, and thus do not know exactly how many students will receive credit.

IAP has been placed on probation by the IAP Policy Committee, which is examining exactly how students spend their time during the intersession. IAP's existence depends, in part, on how faculty, administration officials, and students judge these credit courses.

"A couple of years ago," said Enterline, "when the [IAP] Policy Committee met with students, a number of people felt there should be an option . . . not just for credit, but [for] a more structured class."

"There was indeed a desire from students for credit," she said. The number of credit-bearing courses increased from the 27 offered last year, and these were aimed more at undergraduates than the courses in past years.

Enterline said that if the Committee on the Undergraduate Program does not perceive IAP to be useful to the student body, the committee may "tackle the calendar in general," perhaps shortening IAP and starting the spring term earlier. Nevertheless, "we must ensure that the Institute is providing educational opportunities for students in January," Enterline said.

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Ognen J. Nastov/The Tech
James Szafranski '92 receives his new ID sticker from Tim Steele '89 in Dupont yesterday.

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TRME's *Lysistrata* for the common man. Page 17.

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The world according to Timothy Leary. Page 18.

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Cheap Trick supports *Lap of Luxury*. Page 19.

Intifadah affects every aspect of West Bank life

Reporter's Notebook

By Andrew L. Fish

(Editor's note: Andrew Fish spent three weeks in Israel on a trip for college newspaper editors sponsored by the World Zionist Organization. The following is the first in series of reports.)

The streets of Nablus were teeming with people on a sunny winter day. There was little evidence of the *intifada* — the Palestinian uprising. But this was just a lull in what has become a 14 month battle. The *intifada* has become a way of life in Nablus and other towns and villages in Israel's occupied territories. Even on this calm day one rock was thrown at our bus, and the army saw fit to have two jeeps escort our group around the area.

Photographs are forbidden inside the military administration headquarters, with the exception of one room — a makeshift *intifada* museum. The army has collected articles from the uprising, ranging from the banned Palestinian national flag and cans of spray paint to marbles, clubs, and other weapons. The army placed a rifle and many axes and knives in the display, but these weapons have generally been shunned during the uprising. The purpose of the display was unclear — it could have been for propaganda purposes, some sort of training device, or merely a hobby for the soldiers in the region. Regardless of motive, the display showed that there is no place in the territories where the *intifada* cannot be seen or felt.

Soldiers with maps and high powered binoculars watch Nablus 24 hours a day from observation posts set up on the hills above the city. They look for disturbances in the streets below and try to warn their colleagues of dangerous areas. A soldier explained that during riots they watch the movements of children on the rooftops and radio warnings and instructions to the troops below. But "it has been quiet the past week," he added.

The 20 year-old grudgingly accepts his West Bank assignment. "It's my duty," he said. But "I'm sorry that this is the situation."

Indeed, Morris Zilka, director general of the World Zionist Organization's Information Office, called the *intifada* a "disaster." "We're sending our youngsters in there [and they are] upset about chasing little boys."

Colonel Kalifer, an officer serving in the area, looked over the Casbah, the old section of the city which has been the scene of much violence. He said frankly that "the army would rather not be here."

Koby Milner, an army reservist serving in Nablus, put it more bluntly. The *intifada* "is a political problem — it is not a problem of the army," he said.

But Yochanan Wegner, a military spokesman, said there is "no civilian force which can handle these kinds of riots," and Israel had "no choice but to use the army" in the territories.



photos by Andrew L. Fish

A soldier looks down from an observation post outside Nablus.

"Compared to the record of other Western armies in similar situations . . . our record is impeccable," Gissen said.

Gissen believed the army did have a role to play in ending the conflict in the territories. "If we keep the lid on violence moderate elements can come forth," he said.

Siniora see two state solution

But some moderate voices can be heard among the Palestinians now. One is Hanna Siniora, the editor of *El Fajr*, an East Jerusalem newspaper. Siniora is often mentioned as a man who all parties can work with and he sees a two-state solution to the Palestinian-Israeli conflict.

"The current situation we are in is full of fear, suspicion, hatred, conflict, and sacrifice," Siniora said. "We do not have what we want — real peace and security."

"We [Arabs and Jews] have the same homeland, each of us give it their own name," he said. "If present conditions continue it reflects that there is something basically wrong," Siniora said.

The *intifada* has cost the Palestinian people greatly in terms of deaths, arrests, and deportations, he noted. "But during this very same period something has changed. The Palestinians instead of becoming more radicalized became more pragmatic." They stated for the first time (through the Palestinian National Council) that they accept a two-state solution.

"Despite the gravity of the situation what the Palestinians have to do is provide urgency by continuing the uprising."

Siniora said it was imperative to find a solution to the 1.8 million Palestinians living under occupation. Because of the uprising, "the people of Israel have realized that something has to change."

Siniora only saw two ways out of the present situation: "confrontation and war, which all of us are against," or "political settlement and negotiations."

He said that in the period from 1945-47 the Palestinian and Arab community had been intransigent, refusing to accept a Jewish state. But now the Israelis were doing the same, trying to deny the Palestinians a state of their own.

Siniora said that the Palestinians would be willing to take violence away from the *intifada* if there were no provocations from settlers or the military, leaving only the nonviolent strikes as protest. Yet such a condition seems impossible for the Israelis to fulfill, and there will always be an excuse for violent action.

But Siniora stressed that "the *intifada* tried and is trying to use restraint," noting the absence of much lethal violence.

Siniora admitted that some Palestinians who have suggested a dialogue with Israel have paid with their lives. "Some who talk of a two-state solution have been killed by our Arab brothers or Palestinians," he said. But the fact that Palestinians were continuing to work for a

peaceful settlement in spite of the risk "shows their good intentions."

"We have no option but to live together," Siniora said. "We can live in peace or in conflict and suspicion."

"The national rights of both people have to be respected. We have one homeland; we have to learn to share it."

Bitterness replaces idealism

But sharing the land will be painful to many. For Shaun Efrina, a resident of Moshav Nativ Ha-G'dug in the Jordan Valley, the idealism of settling in the Jewish homeland has been replaced by an perceptible bitterness. A native of Los Angeles, she came to Israel 12 years ago. She soon married and lived with her husband on a kibbutz. But they were materialistic for the idealist socialism of kibbutz life and settled on the West Bank moshav two years later.

"We came not for political reasons but for economic reasons," Efrina said. The Israeli government was subsidizing housing in the territories, and it was "the only place where you can come and build a house and have to pay it off in 20 years," she explained. The moshav started with a collective bank account, so that members would all bear the debts of others. But this noble idea was dropped after 10 years because of "parasites" who were not doing their fair share, Efrina said.

Because of the political climate, the moshav could only attract 30 families, not even half its planned capacity. The Arabs in the area were "not very politically inclined," and "I thought maybe naively that we could live together and work it out," Efrina said.

Her family started working the land themselves, but soon found it impractical. They hired an Arab family to work their land, and Efrina said the families had reasonably good relations. But then on a trip back from Jerusalem, they saw the army destroy their workers' house. "We faced a huge dilemma," she said. "Either the people who worked for us were terrorists and wanted to see us dead or the security force made a mistake." Neither scenario was very comforting.

After the *intifada* "there's no going back — the status quo is gone," Efrina said. "My children fear Arabs," she lamented, "and I don't think they got that from our house." But "children have a tendency to see things in black and white," and "they do have something to fear," she said. "There are people out there trying to kill them with stones and bombs."

If a Palestinian state is created on the West Bank, Efrina will abandon the moshav. "This is not a political settlement; if they tell us to leave we will," she said.

"We've stopped investing [in our property]; that was a mistake," Efrina said. "We feel betrayed by the Israeli government — they were the one's who told us to come here. 'There's a lot of fear here now.'"

As we left Efrina's house one of our group remarked, "I think you have a beautiful home."

"I used to think so, too," she replied.



Materials from the *intifada* displayed at the military administration headquarters in Nablus.

When Kalifer was asked about excessive use of force against Palestinians, he responded that "most times we [do] not do as you say." Wegner added that "you can always find extreme examples" and in those cases "soldiers were punished." Also, there is a "shaky borderline" between necessary and excessive force, he noted. "There is no way you can stop a riot by speaking rationally."

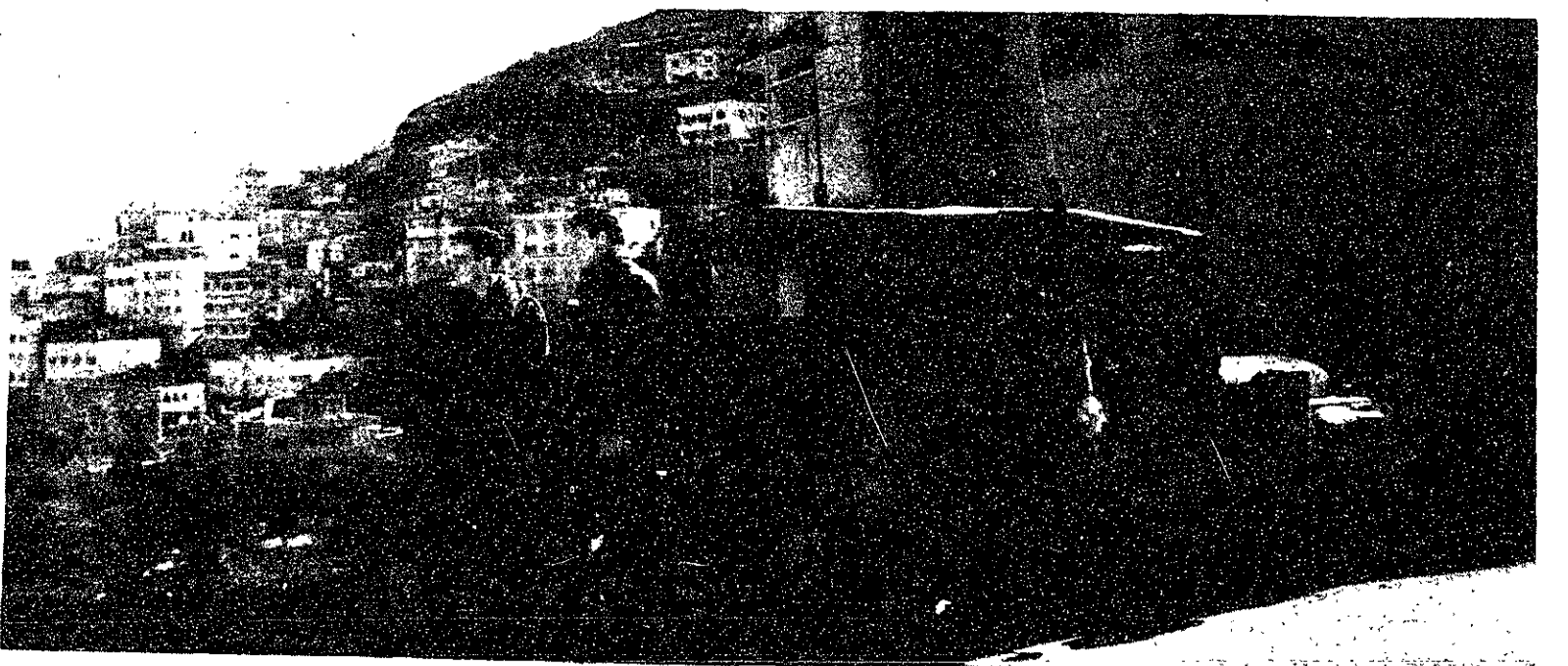
Kalifer defended the Israeli practice of demolishing the houses of some protesters, saying that the army tries to get "a point target" and only attacks the houses of those known to have committed serious acts of violence. "We don't believe in collective punishment."

"We think most of the civilians don't want an *intifada*," Kalifer said. He felt that people were incited to violence, and youth were responsible for most of the activities. "Because of what [a demonstrator] does we use force," Kalifer said. "We must deter them."

Back in Jerusalem, Colonel Raanan Gissen of the Israeli Defense Forces Spokesman's Office conceded that the army had "not been prepared for the scope of the uprising."

"It's a police action in very difficult conditions and soldiers are not particularly trained to deal with it," Gissen said.

At the beginning of the *intifada* there were more violations of regulations than now. "Israeli soldiers are not trained to beat, and it was an excruciating learning process," Gissen said. He said there were 50 cases of transgressions, "all of which were punished."



Soldiers stand guard near the Casbah.

news roundup

from the/associated press wire

World

Polish Government opens historic talks with Solidarity

Representatives of Solidarity, the Catholic Church, and the Polish government opened unprecedented talks in Warsaw yesterday to discuss the future of the independent union movement and changes in the communist nation's political system. In talks with union leader Lech Walesa, the Polish government's top negotiator offered to legalize Solidarity if it agreed to economic and political reforms. Walesa blamed Poland's economic and political problems on a lack of freedoms. A communique issued after the three hour talks said the delegates would meet again Wednesday. The State Department called this gesture an important step toward democracy in Poland.

Israel wants halt to US-PLO talks

Two Israeli leaders have launched a campaign to persuade the United States to halt its dialogue with the Palestine Liberation Organization. The United States opened talks with the PLO in December, after chairman Yasser Arafat renounced terrorism. Foreign Minister Moshe Arens '47 and Defense Minister Yitzhak Rabin have charged that Arafat has broken his pledge to end terrorism.

Reporters pack Paraguay palace to hear President Rodriguez

Paraguayan President Andres Rodriguez, who came to power in a coup last week, told journalists who packed Lopez Palace that elections to choose a new president and congress will be held on May 1. Rodriguez said he ousted long-time ruler Alfredo Stroessner for the good of the country. He denied reports linking him to drug trafficking, and vowed to fight cocaine shipments through his South American nation.

Jackson plans Armenia telethon

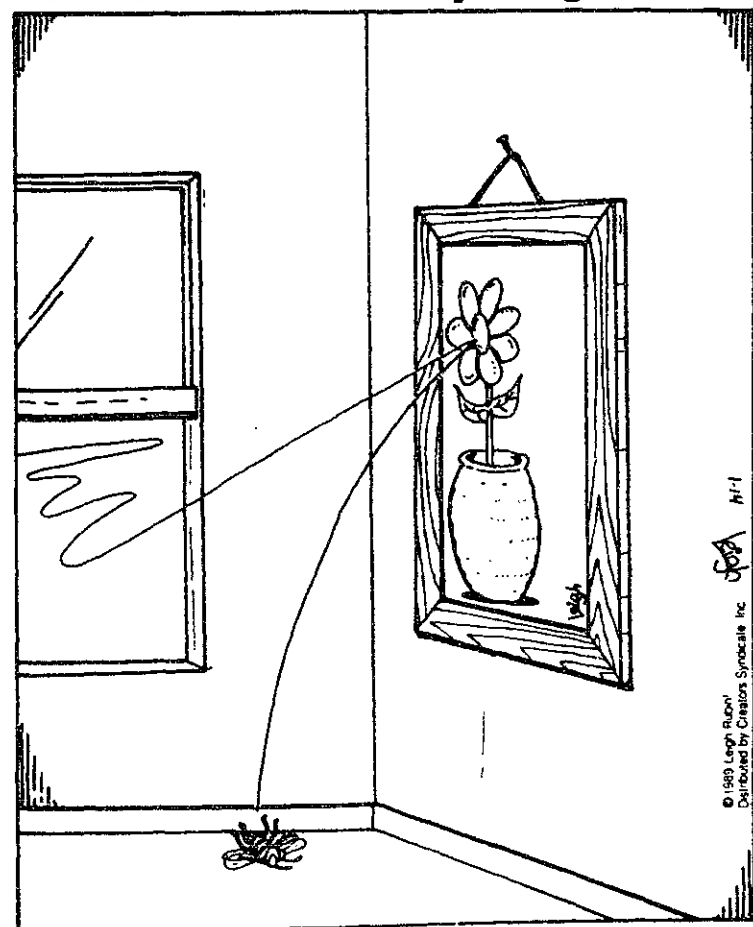
Jesse Jackson said plans are in the works for an international telethon to raise money for earthquake-ravaged Armenia. Jackson told ABC that the Rainbow Coalition has signed an agreement with Soviet officials to stage the telethon on June 10. Back from a recent visit to the Soviet Union, Jackson called conditions in Armenia "really incomprehensible."

Local

Dukakis' budget includes \$1 billion increase

The House Ways and Means Committee began hearings yesterday on Gov. Michael S. Dukakis' \$13.4 billion budget for fiscal 1990. The budget called for a \$1 billion increase in spending balanced on the back of a major tax increase. Ways and Means chairman Richard Voke began the week-long hearings saying the state's fiscal situation was more challenging than any faced by the current generation of lawmakers. The Chelsea Democrat said the state budget was severely out of balance both for the current and coming fiscal years. Voke went on to say that despite a continued strong economy and low unemployment, government spending in Massachusetts exceeded the revenue growth needed to support that spending.

Rubes® By Leigh Rubin



Nation

Congress to vote on pay raise

Opponents of the congressional pay raise yesterday won a major parliamentary battle as they forced a roll call vote on the issue. House Speaker Jim Wright bowed to pressure and shelved a bipartisan plan to let the 51 percent pay hike take effect without a vote; Wright had attempted to adjourn until Thursday. The Senate has already voted against the federal pay raise. If House members do not vote it down, it will automatically take effect Wednesday. Wright yesterday told his colleagues that "the majority has spoken." Rep. William Gray (D-PA), chairman of the House Democratic caucus, predicted that there would "be no raise" for lawmakers.

It was unclear whether President Bush would sign legislation vetoing the raise. At an afternoon news conference yesterday, Bush indicated that he still supported the raise. But Senate Republican leader Bob Dole said he believed Bush would go along with Congress in killing the pay hike.

Rehnquist urges end to death penalty delays

Chief Justice William Rehnquist again called for reforms in the death penalty system to bring an end to protracted delays in executions. In a speech prepared for delivery to the American Bar Association in Denver, Rehnquist cited the recent execution of serial killer Ted Bundy as an example of a "chaotic and drawn out" death penalty appeals system.

March shuttle launch likely

The commander of the next scheduled space shuttle flight said he was confident the mission would get off the ground in mid-March. Michael Coats told reporters in Cape Canaveral yesterday that the crew was disappointed the mission's late-February launch date was postponed, but said suspect engine parts would be replaced without further delays.

Powell falls ill

Retired Supreme Court Justice Lewis Powell was rushed to a hospital in Jacksonville, FL, yesterday. A court spokeswoman said the 81-year-old Powell was diagnosed as having an "acute upper respiratory infection." Powell retired from the Supreme Court in 1987. He has been serving as a visiting judge on a panel of the 11th US Circuit Court of Appeals in Florida.

Kitty Dukakis enters rehab program

Kitty Dukakis, the wife of former Democratic presidential nominee Michael S. Dukakis, has entered the Edgemoor Alcohol Treatment Program in Newport, R.I. A statement from the Governor's office said Mrs. Dukakis was admitted Sunday night and would stay there for about a month. The statement said physical exhaustion and a post-election letdown led her to drink too much on a limited number of occasions at home. Dukakis said his wife "never had a problem with alcohol until after the election" in which President Bush defeated Dukakis. In July 1987, Mrs. Dukakis announced that she had recovered from a 26-year dependency on diet pills.

Stoughton police face harassment allegations

Stoughton police will face federal and state investigations into alleged harassment of a black Boston police officer who lived in the town. Boston Attorney Kenneth Fishman said yesterday he has asked the US Justice Department and the state attorney general to investigate the allegations of his client, Boston police patrolman Aaron Gross.

Fishman said Gross, who lived in Stoughton with his wife and children, had been stopped four times since July by Stoughton police and once by a Canton police officer, who later was joined by a Stoughton officer. Gross alleged he had been singled out for harassment and was beaten by white Stoughton police officers and held at gunpoint on Nov. 30.

The case marked the second allegation of police harassment of a black in less than a year in the Boston suburb.

Vietnam display will come to Bay State

A replica of the Vietnam Memorial in Washington will travel to the Bay State this summer. The traveling wall will be on display in Greenfield, MA, for one week this summer. Congressman Silvio Conte of Pittsfield came to Greenfield yesterday to announce that the display, which stretches 252 feet in length and stands six feet high, would be on display at the Franklin County fairgrounds this July. Conte said the wall was in great demand and would be displayed across the country. He said people who see the wall can't help but be touched by its significance and power. Conte announced the display at the Franklin County courthouse in Greenfield.

Bush announces S&L bailout

President Bush announced a plan to bail out the savings and loan industry that would impose no direct cost to depositors. But it would increase the insurance premiums paid by banks and thrifts. The higher costs could be passed on to depositors. Bush told a White House news conference that savers have never lost one dollar in federally-insured institutions and that he was "determined that they never will." Under Bush's plan, \$50 billion in bonds would be issued to supplement the \$40 billion Bush said has already been spent to bail out institutions that have failed.

In addition, the President proposed changes in the federal supervision of the savings and loan industry, which is struggling to resolve the difficulties of an estimated 350 faltering institutions. Insolvent institutions would be put under the joint management of the Federal Deposit Insurance Corporation, which insures bank deposits, and the Federal Savings and Loan Insurance Corporation, which insures the deposits of savings and loan institutions. He proposed an expanded Treasury Department role in supervising thrifts and new regulations that would reduce risky investments.

Pulitzer-prize-winning author dies

Noted historian and author Barbara Tuchman died yesterday in Greenwich, CT. She was 77. A hospital spokeswoman said Tuchman suffered complications following a stroke. Tuchman was a two-time Pulitzer prize winner. Her latest book *The First Salute* has been on the *New York Times* best-seller list for more than two months. The book takes a look at the American Revolution and the Dutch Revolution that preceded it by 200 years. She won the Pulitzer Prize for history for *The Guns of August* in 1962, and for *Stilwell and the American Experience in China* in 1971.

FDA approves aerosol AIDS drug

The Food and Drug Administration granted permission for the expanded distribution of an experimental, aerosol version of the drug Pentamidine, which helps prevent the type of pneumonia that often strikes AIDS patients. Pentamidine is marketed by Lyphomed Incorporated.

Under conditions of the approval, the aerosol would be recommended for use by AIDS virus-infected people who have had at least one episode of the pneumonia or who have very low counts of the infection-fighting white blood cells that are destroyed by the AIDS virus.

Reagan to lobby for balanced budget

Former President Reagan said he's "saddled up and ready" to lobby for a balanced budget amendment to the constitution. Reagan's speech at the University of Southern California was his first since leaving office two-and-a-half weeks ago. Reagan, who turned 78 yesterday, told the students he was glad his retirement was over.

Weather

Ed Nelson's February Almanac

It is important to remember that we are not yet out of the woods of winter! In most areas of the United States, February is by far the snowiest month of the year. Looking at some of the storms that have affected the country in this century, we see that the eastern and central sections have experienced some very deep snow falls in February. Eleven years ago today, a New England blizzard dropped over three feet of snow in Connecticut, Rhode Island, parts of Massachusetts, and New York. Roads were closed to the public for several days. In February 18, 1979 over 20 inches of snow fell in the Washington D.C./Maryland area. In this storm, it snowed over an inch per hour for 18 hours.

The average high temperature for the month is 37.5°F and the average low temperature is 23.3°F giving a mean temperature for the month of 30.4°F. The normal precipitation for the month is 3.32 inches with an average of 12 days of measurable precipitation. The full "snow" moon will occur on the Feb. 20, and the new moon occurred yesterday.

Tuesday afternoon: Partly sunny to partly cloudy with a few passing flurries. Wind west-northwest 5-10 mph. High 34°F.

Tuesday night: Partly cloudy and cold. Winds southwest 5-10 mph. Low 20-23°F.

Wednesday: Increasing clouds and a bit milder. Chance of a brief snow shower late. Winds southwest 10-15 mph. High 32-37°F. Low 22°F.

Thursday: Variably cloudy with a period of snow possible, otherwise breezy and colder. High 24-28°F. Low around 13-17°F.

Forecast by Michael C. Morgan

Compiled by Mark Kantowitz

opinion

Editorial

Education reform lacks direction

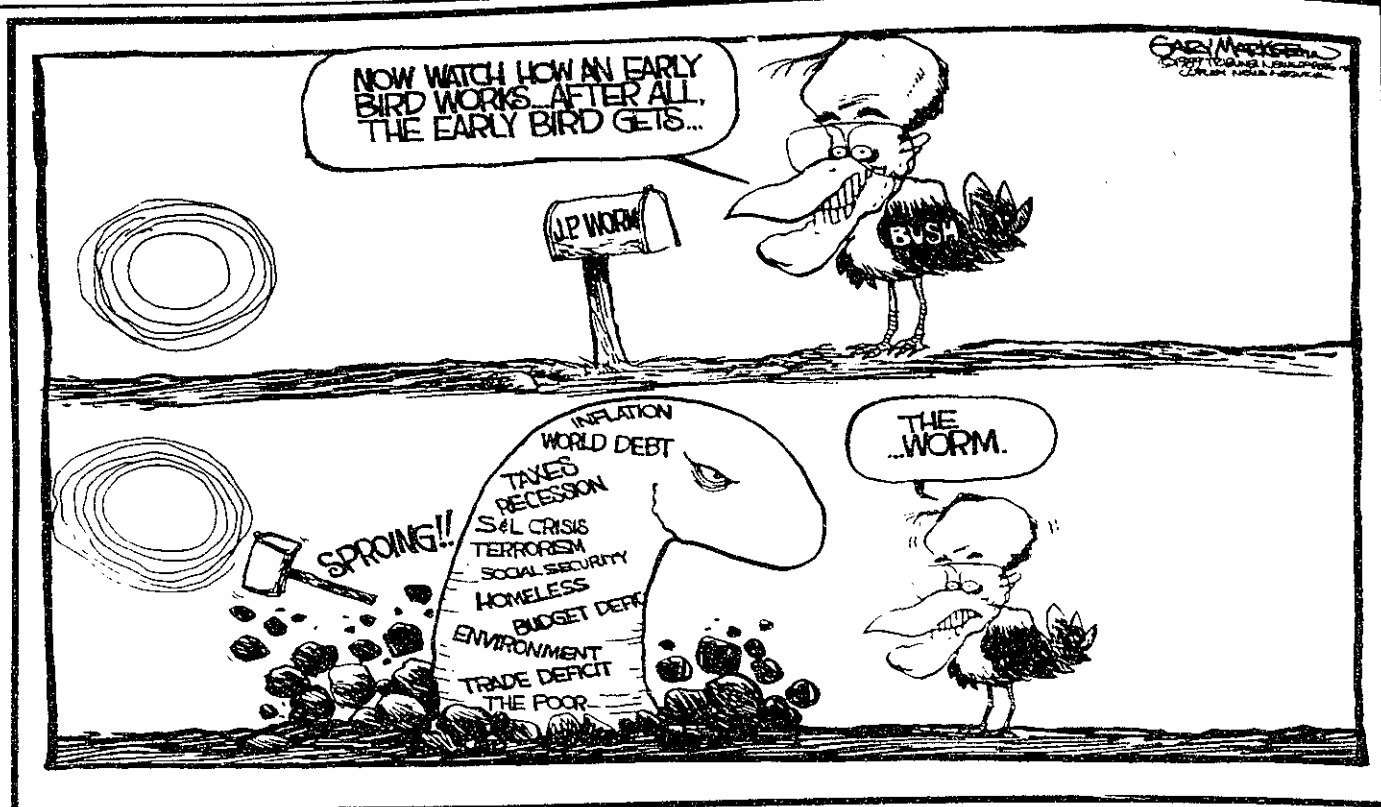
The reports of the Committee on the First-Year Program and the Science-Engineering Working Group, both released this week, promise to generate the most heated controversy over educational reform since its inception four years ago. Each report presents significant problems that must be resolved before a faculty vote is called. Furthermore, the proposals offer conflicting messages on the goals of educational reform.

The reasons given by the CFYP for abolishing second-term freshman pass/no-credit are not convincing. The committee relies too much on broad generalizations about student behavior in its attempt to justify eliminating second-term pass/no-credit grading; it offers little empirical evidence.

In addition, some of the reasons the CFYP gives for the elimination seem strained. For example, two reasons the CFYP gives for pass/no-credit elimination are: (1) "some students" express frustration with pass/no-credit in the second semester and (2) the recording of hidden grades causes confusion regarding who actually gets to see the grades. Clearly, neither reason carries much weight in a proposal of this magnitude. Moreover, the CFYP glosses over those freshmen who need two terms of pass/no-credit to properly adjust to MIT. CFYP argues that these students are probably few in number and suggests that the new system would be better for these students in any case. The report, however, gives no clear reason why this would be the case.

SEWG proposes the addition of one subject to the science core, while reducing the number of Science Distribution classes by one. Regardless of whether or not SEWG recommends that one science distribution subject remain outside of the departmental requirements, undergraduates will have to face the specter of even less freedom in course selection.

In a larger sense, it is unclear whether the committees that fashioned the two proposals shared the same vision for the goals of educational reform. While the CFYP's proposals are motivated largely by a desire to spread the core requirements beyond the freshman year, the SEWG proposal of a year-long chemistry/materials/biology course would seem to discourage that. Is there a clear goal in sight for those who advocated sweeping changes four years ago?



Column/Michael Gojer

Education reform losing focus

In December 1986 President Paul E. Gray '54 wrote in *The Chronicle of Higher Education* that MIT was about to embark upon the most intensive review of its undergraduate program in the last 25 years. MIT's task, according to Gray, was to develop "a true educational partnership among the technological, artistic, social, and humanistic disciplines." An "educational synergy," he called it, that could not be addressed in "isolated, piecemeal fashion by faculty members in different disciplines." Yet, if educational reform at MIT continues on its present course, we will have nothing of the kind.

The release this week of reports by the Committee on the First-Year Program and the Science-Engineering Working Group does constitute progress on educational issues — after five months in which nothing has been heard about them at all. But while these reports may make valid contributions, no one at the Institute is examining the larger questions that educational reform was originally intended to address.

Educational reform efforts so far have concentrated on the Humanities, Arts, and Social Sciences requirement, the first year program, and now the science core. But the gut of the issue is that, in order to reorient the undergraduate experience at MIT, departmental requirements must change and the teaching format of all courses must be analyzed.

Without changes in departmental requirements, the bulk of a student's program at MIT will remain the same. Schedules for most majors are already tight; no room is left for innovation in the curriculum. The much-touted context courses, for example, will have a hard time finding their way into the mainstream curriculum unless departments are willing to give up some requirements in exchange.

Every one of the writers that contributed to *The Tech's* education supplement in April 1986 thought that MIT education needed broadening — not just beyond science and engineering, but within science and engineering. Professor Jack Kerrebrock, associate dean of the School of Engineering, wrote that many subjects cover too much material at the expense of depth of understanding. And MIT students get little exposure to problems with ambiguous answers, wrote Professor Alvin W. Drake '57 of the Department of Electrical Engineering and Computer Science. Freed of some departmental requirements, Drake said, some students could take courses on the social contexts of science and

engineering, while others might expand the design experiences within their curriculum.

Similarly, Gray wrote in *The Chronicle of Higher Education* in 1986 that one goal of the educational reform movement at MIT was to expand students' creative and design capabilities. There is evidence, Gray wrote, that the Institute somehow stunts the enthusiasm and creativity of its students during their four year program, and Kerrebrock, in *The Tech*, questioned the effectiveness of the current lecture/recitation/quizz format in promoting self-study.

But who is studying any of these curriculum issues right now? The extent and focus of departmental requirements and the teaching formats of technical subjects, perhaps the two most important issues in educational reform, are presently not under serious review, albeit for understandable reasons. Changing requirements or teaching formats would stir up serious intra-Institute politics, which educational reformers may not be willing to combat. Until they do, the MIT experience will remain the same.

Current educational review efforts may be missing the forest for the trees. The new HASS requirement went through two years of debate and fine tuning, with the end result that it almost entirely resembles the old requirement. In the meantime, such ambitious plans as the establishment of a College of the New Liberal Arts, proposed by Professor Leo Marx's committee in 1986, have disappeared from the educational reform discussion.

Perhaps the most lasting effect of the reform movement will be a

change in MIT's image, even if its curriculum remains the same. When MIT announced that it was revising its humanities requirements, newspapers across the country echoed headlines like "MIT to humanize engineers." The stories, of course, were inaccurate, but the headlines did strike a chord. An admissions office video triumphantly displays MIT as a place for humanistic scientists, and it is clear that MIT seeks a humanistic image.

Yet, within the Institute, confusion abounds over the goals of educational reform. Some perceive the question of curriculum review to be whether MIT courses should be easier or not, and some connect the notion of "humanizing" MIT with lower academic standards. But the dissatisfaction that many students feel with the curriculum may result not from too much to study, but from studying the wrong things in the wrong ways.

Ultimately, the biggest barrier to creating the kind of "educational synergy" that Gray spoke of and reorienting MIT education may be simply a clash of vision. In the past, MIT has defined itself by its stature as a premier technological authority, but broadening MIT's curriculum may require redefining its identity.

One thing is certain: if the Institute truly wants to reorient MIT undergraduate education, it must take on the big issues. Until that happens, we may have to be content with just the headlines.

Michael Gojer, a sophomore in the Departments of Humanities and Physics, is opinion editor of *The Tech*.

The Tech

Volume 109, Number 1

Tuesday, February 7, 1989

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feedback

Fulbright offers valuable cultural experiences

To the Editor:

I read with dismay Michael P. McCue's letter of Jan. 18 ["Fulbright disappoints science student"]. I wish to raise two points. First, while it is true that English (and indeed, British) science has suffered serious losses in manpower, financial support and morale recently, it is misleading to suggest that little, if any, good science is being done in the United Kingdom. There are still many world-renowned scientists and laboratories in the United Kingdom; in fact, Oxford Physiology (at which McCue apparently had

the misfortune to study) has several first-rate research groups.

Secondly, the value of awards such as the Fulbright does not lie purely within the academic domain. They allow students to broaden their social and cultural horizons. I count myself very lucky to have been able to study at Oxford (in Physiology — horrors!), the University of California, and MIT.

I urge MIT students to seize their opportunities to study in Britain.

However, I would take Stanford for the sun. . .

R. Martyn Bracewell G

opinion

feedback

Bring Columbian president for 1990 commencement

(Editor's note: The Tech received a copy of this letter addressed to Mary Morrissey of the Commencement Committee.)

To the Editor:

As I have already mentioned to you and to President Paul E. Gray '54, I would like to nominate Virgilio Barco '43, president of the Republic of Colombia, to be our guest speaker for the 1990 commencement.

I believe that we at MIT should recognize important people from within our own community. What better than to have as a guest the only graduate of our institution who has been able to become head of a country. Furthermore, because Barco served for many years as a member of our Corporation, he knows the Institute from that perspective as well.

Moreover, I believe that the role Latin America is playing in US foreign policy is becoming every day more important in the internationalization of the US economy.

We hear every day what the American press tells about this matter but we really do not know the perspective from within Latin America. Barco, more than any other of our graduates, is the most suitable person to address us about this other side of the coin.

I believe it is important also to know that by June 4, 1990, the day of our commencement, Barco will still have two months left in office but there will already be a newly-elected president to succeed him. This will not only facilitate his visit, but will allow him to expand the limits of his address.

I hope the committee will agree with me regarding the importance of this matter and will extend an invitation to Barco for our 1990 commencement.

As the only Colombian graduating in that year, I avail myself of this opportunity to assure you of my eager involvement and participation in this event.

Julian Iragorri II '90



GUN LAWS.



feedback



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

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

Too many still living by ritual and imitation

To the Editor:

If some of MIT's pioneering alumni could return to campus today, might they not ask, "What happened to the spirit of originality? Don't they tire of painting Those who've heard of Oliver over the same old Smoots?"

R. Smoot, Jr. '62 may also have heard of another pioneering undergraduate, Richard P. Feynman '39, who later went on to win a

Nobel Prize in physics. In his autobiography, *Surely You're Joking Mr. Feynman*, Feynman

tells the unforgettable story of people who still live by ritual and imitation, rather than by understanding.

This is the story of Pacific island natives who were awed by the airplanes bringing supplies to American soldiers based on the island. When the war was over and the soldiers were gone, the natives thought to bring the planes back on their own. So they copied all the right forms — clearing foliage, building runways — and they waited, and waited...

Now people will laugh at a student who would attempt, by taking the exact courses and doing all the things Feynman did at MIT, to capture the spirit and intellect of Feynman, or to have as much fun as he did.

Yet these very same people will paint Smoots *ad infinitum*. The question of putting Smoots on the restored Massachusetts Avenue Bridge is now front page news for *The Tech*. One fraternity member was quoted as saying his group has preserved the Smoot to Smoot distances on a piece of string ["364.4 and an ear... Smoot legacy lives on," Jan. 18]. Undoubtedly this precious relic is being reverently preserved in the innermost holy chambers of that fraternity. Perhaps it is stuffed in an empty bottle of Sam Adams.

Let us not confuse the ritual of painting over Smoots for the original spirit that gave birth to Smoots. It is one thing to be aware of things past, and wonder how they came to be, but it is another thing to adhere to old forms simply because they are there. The former is an appreciation of history, the latter a mockery of it.

Would the Smoots and Feynmans of 1989 enjoy the MIT of today? Or would a prevailing Pacific island mentality drive them to sunny California with the rest of the "brain drain?"

By now Oliver Smoot and his two cronies, I wager, would have carried through one if not several "ideas" to replace the old ritual and to keep the Pacific islanders at MIT busy for yet another quarter century.

Parmet Singh Chaddha '87

Gene Kim G

Jonsson doesn't understand the extent of discrimination

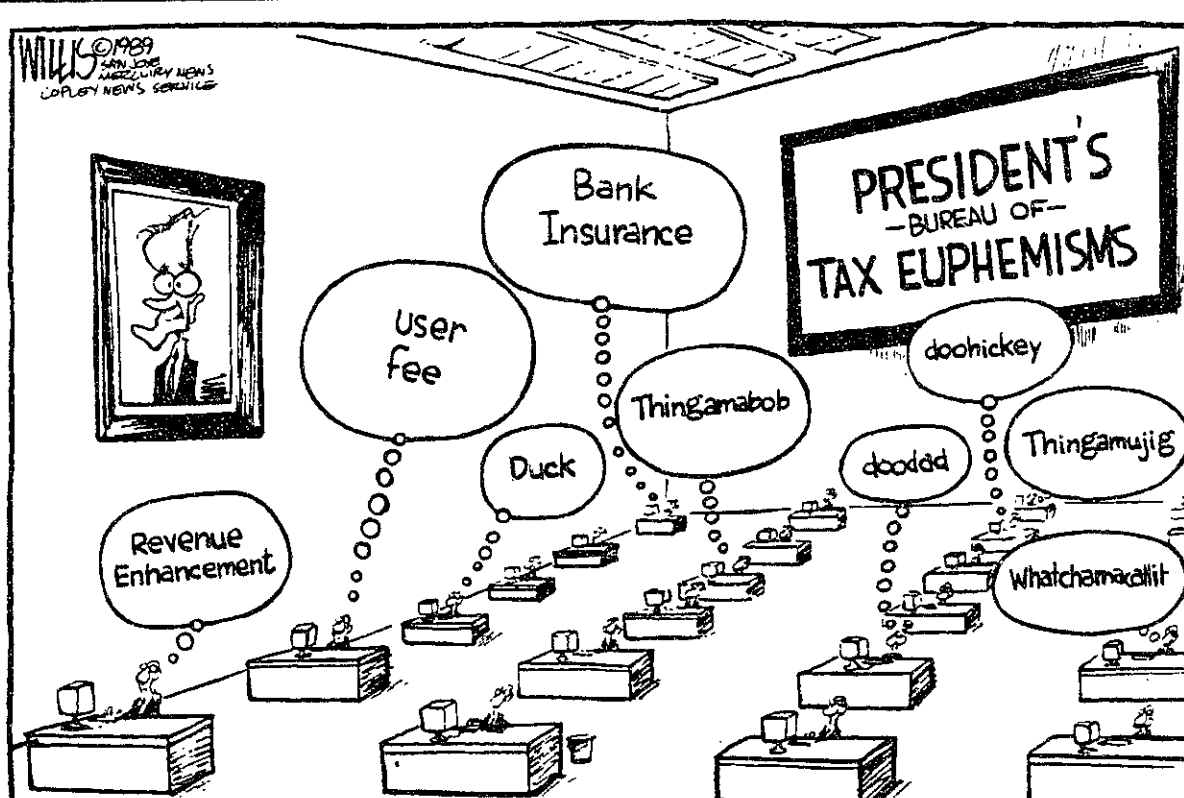
To the Editor:

This letter concerns the recent controversy over the handling of minority students by the Campus Police. I was particularly intrigued by the letter of William T. Jonsson '88 ["Campus Police not racist," Jan. 25]. Jonsson's attitude is a typical thinking pattern emerging in America about racial tensions. His comment about People Against Racism "eagerly searching for instances of racism" reflects the attitude among a vast majority of whites (with former President Reagan as their champion) that civil rights activists are basically trying to keep a nuisance value alive. This amounts to the denial of existence of racial discrimination in America.

I will like to remind Jonsson of the past history of America

which has been written with the blood of thousands of American Indians and African-Americans. If minorities are oversensitive (which, at times, I think they are) to the existence of racial bias behind the abuse of power by those in authority then they are the last ones to be blamed. This sense of fear and insecurity (to put it mildly) amongst the minorities is a result of hundreds of years of exploitation and injustice by white people.

Jonsson's final comment that if describing a black male as black makes him a racist, then so be it, is especially ominous. I agree with him that describing the alleged assailants by their appearance (skin color being part of the appearance) is absolutely justified. However, it is disturbing to know that his being dubbed as a racist does not bother him. America is changing fast. Minorities (especially Asians) are making some headway in securing economic and social justice. It is the birthright of all human beings. Therefore, it is high time that the likes of Jonsson realize that racism is very much alive and kicking but is facing a stiff and determined opposition from the emerging socio-economic strength of the minorities. No one group has been known to dominate another forever. Power always changes hands. To make the dream of finding a common ground for all human beings and, thereby, eliminate the possibility of counter-racism to emerge, it is essential that the traditionally privileged people show more understanding about the sensitivities of the victims of the past. Slaves of the past are determined to undo the continuation of the past.



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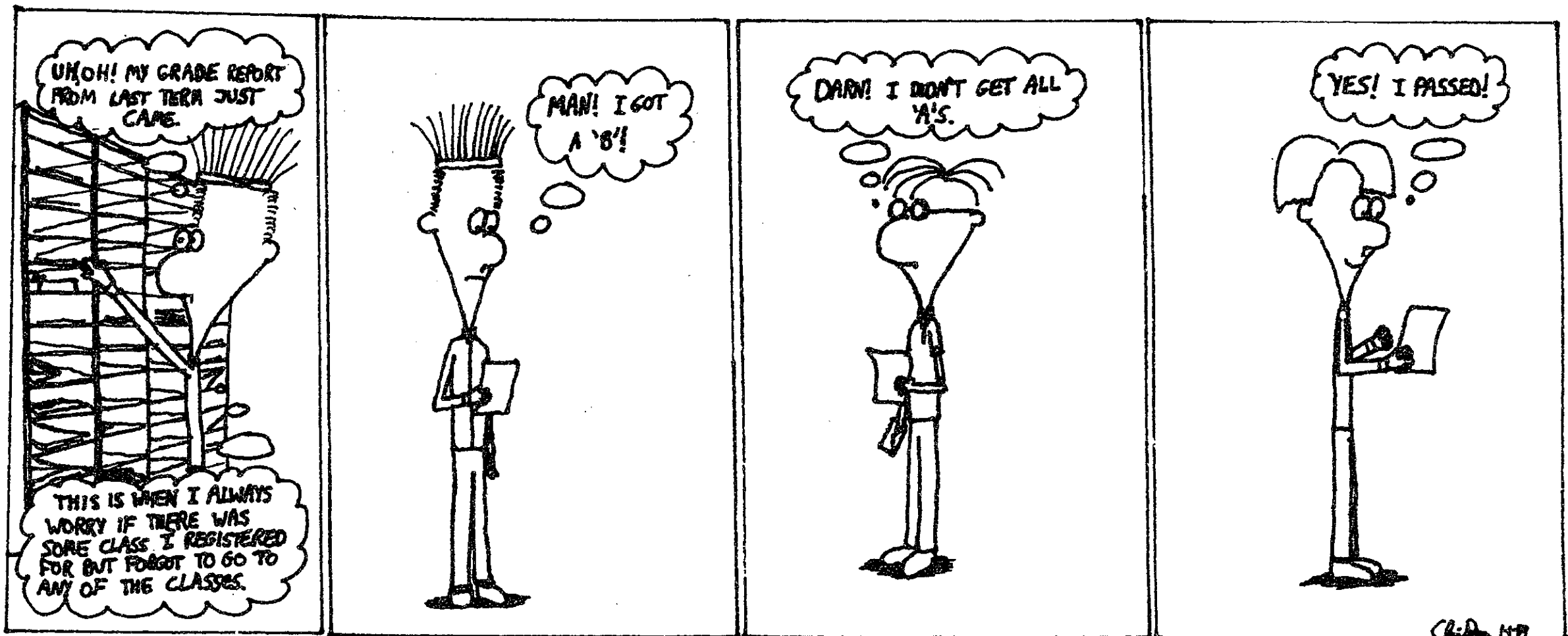
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— Eric Berman, *Associate Program Manager-Intern*
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— Bill Johnson, *Program Manager*
MIT SB (16) '88

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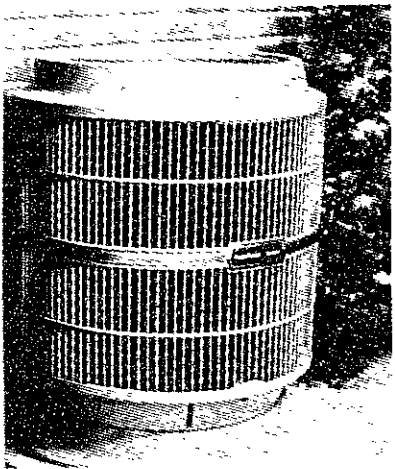
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— George Hu, *Software Development-Intern*
MIT (6-3) '89

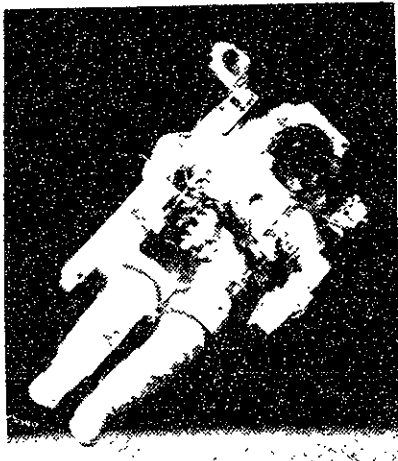
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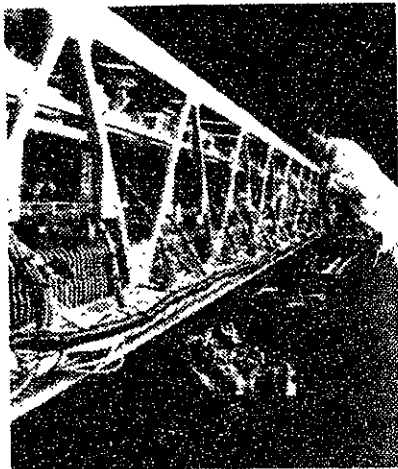
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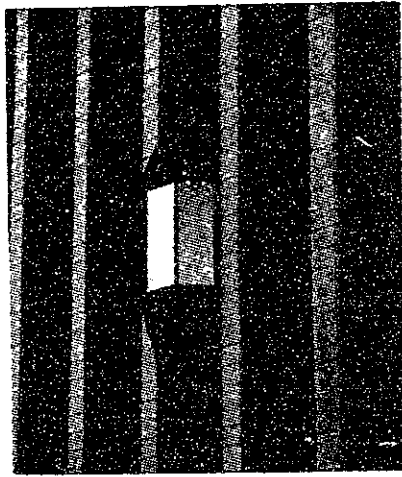
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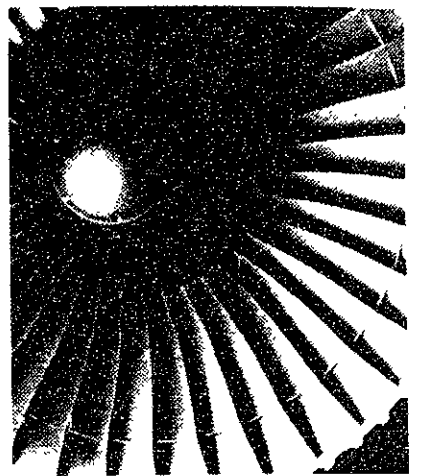
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Sam Huk

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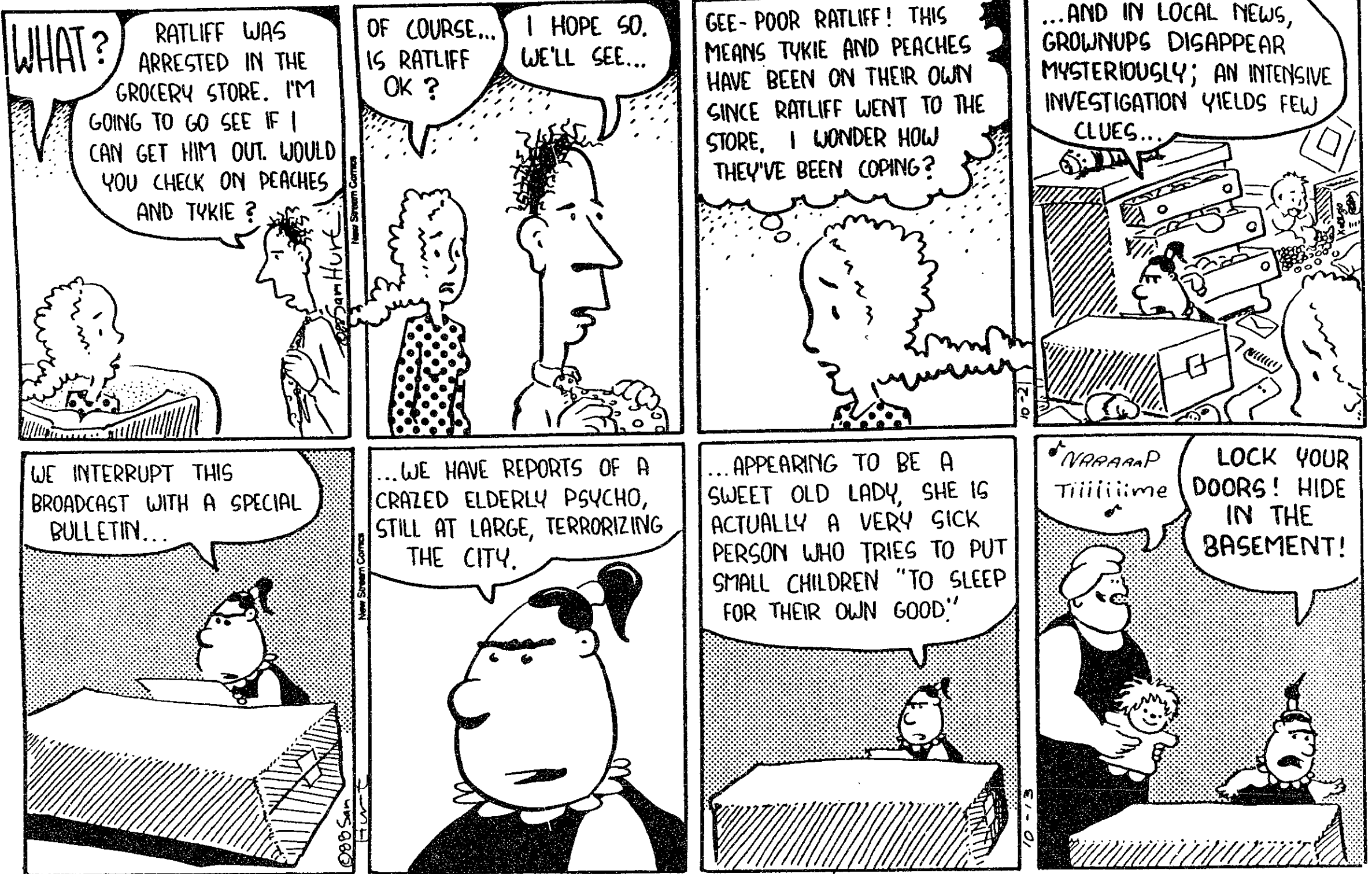
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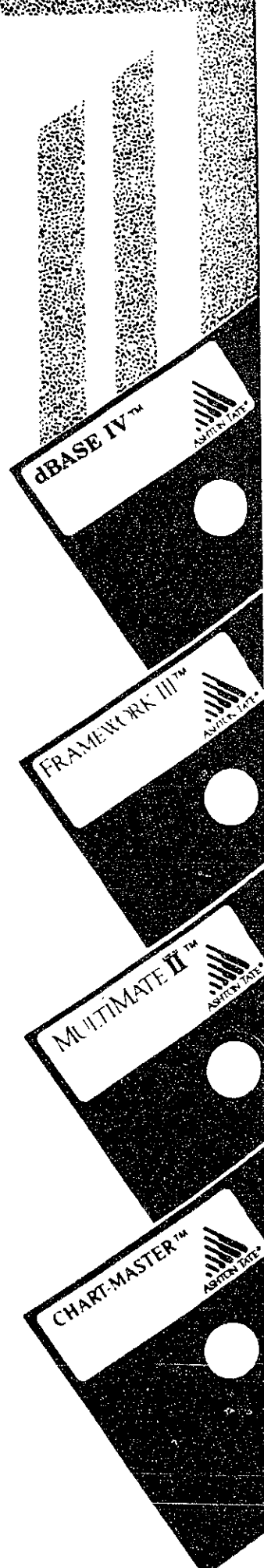
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CFYP report advocates elimination of frosh P/F

(Continued from page 1)

fy the Humanities, Arts, and Social Sciences requirement; at most two such subjects could satisfy the Science Core and Science Distribution requirements; and at most one could satisfy a departmental requirement.

The CFYP report argues that

should be eliminated because many freshmen presently use it to take extremely heavy loads, neglecting subjects that serve as the basis for later studies. The committee points out that 45 percent of second-term freshmen took more than 55 units in a recent

year while only 12 percent of sophomores did so.

Katz, who is the student member on the CFYP, disputed the committee's assumptions. The committee operated on the belief that students were not working hard enough, Katz said. He did not believe this was the case, and also suggested that students who felt confident enough to take 55 or more units could probably handle it.

At one of the forums held last April, some students suggested that a lower freshman credit limit could solve the problem of overloading. The committee debated this alternative but rejected it because it would impose a credit limitation on all students for the benefit of only those who need it, and because it would not address the committee's other concerns.

Among those concerns were removing the artificial barrier between the first and second undergraduate years imposed by pass/no-credit, and encouraging students to adopt flexible academic programs that might allow them to extend completion of core science requirements into their second year. The committee also hoped that the proposed system would allow students to explore areas of interest throughout their

undergraduate years.

Katz doubted this would be the case. Students who wish to go to graduate school or find employment will be reluctant to use the credit/no-credit option for classes in their major or related to it, he said. Companies and graduate schools may suspect that students who elect to take subjects credit/no-credit are likely to have done poorly, Katz said.

Katz criticized the evidence offered by the CFYP for its conclusions. The report is very "anecdotal," he said. Even though MIT has a large number of people who could compile and analyze statistics on student performance, this was not done. Moreover, "data that would not support their point of view is not included," he said.

Manning could not be reached for comment yesterday.

Flexible programs

The CFYP report also recommends that more flexibility be introduced into planning for the first-year program. The proposed credit/no-credit system would be one method to encourage a more flexible program, since it would allow students the option to postpone taking science core subjects and to explore other academic

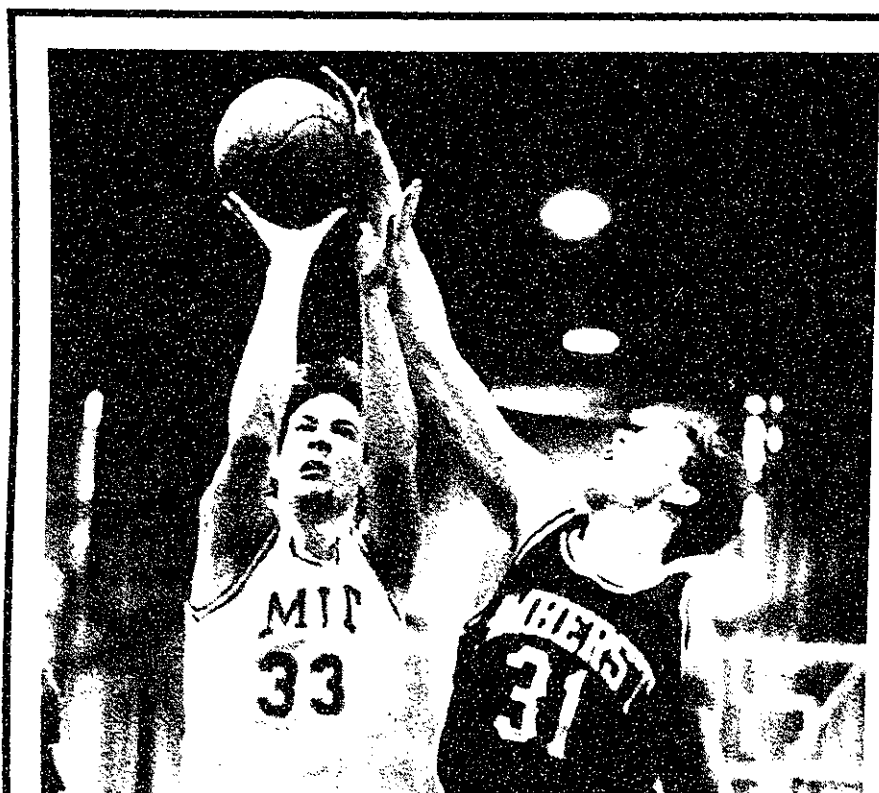
interests.

More generally, the report recommends that the Institute adopt the following view: "That the general expectation of the Institute is that freshmen will complete the Institute mathematics requirement and two of the three remaining core science subjects, along with two HASS subjects, during their first year." Presently, the vast majority of freshmen complete all five science core subjects and two HASS subjects during the first year.

At the same time, the committee explicitly does not preclude students from following the current norm or arranging even more flexible academic programs.

The proposal encourages, for example, students who have no calculus background before coming to MIT to postpone taking Physics I (8.01) until second term freshman year, after having taken Calculus I (18.01).

In addition to the credit/no-credit system, the committee also recommended that faculty and Institute support offices encourage the view among freshmen that they are free to tailor their programs to their individual needs. Furthermore, the report urged the development of curricula along these lines.



Michael Franklin/The Tech
Dave Dellagrotte '90 puts up a shot. MIT and Amherst went up against each other Saturday. MIT was victorious at the buzzer with a final score of 63-62.

SEWG releases report on science core reform

(Continued from page 1)

According to Undergraduate Association President Jonathan Katz '90, some faculty members may be troubled by the SEWG report's wording of the revised science distribution requirements, which is as follows: "it is preferable (though we would not at this point insist) that no more than one science distribution subject out of the two remaining [after the integrated course] be a departmental requirement. This conclusion reflects our desire to encourage diversity, but we also recognize that some well-conceived departmental programs may still need to require two subjects that extend knowledge in science disciplines beyond that in the science core offerings."

For those majors such as Course II and Course VI which currently have more than one departmental requirement labeled as a science distribution requirement, if the "preferable" is ever changed to "mandatory," then the integrated sequence would result in an additional requirement for those majors.

SEWG also suggested a two-stage plan through which the integrated subject sequence would be introduced into the MIT curriculum. The first stage would consist of the development of a pilot offering of the two-term sequence during the 1989-1990 academic year on an experimental basis. The first term of the se-

quence would fulfill the Institute chemistry requirement and the second would act as a science distribution subject. If the experiment is successful, then the sequence would be put before the faculty for adoption in the 1991-92 academic year as the recommended way of satisfying the proposed Institute requirement in chemistry, materials and biology.

In addition to the integrated sequence, the group advocated the development of a new two-term core physics sequence which would include exposure to basic concepts in atomic and quantum physics. According to the SEWG report, this addition to the core physics requirement would "support and strongly complement [our] recommended developments in chemistry-materials-biology."

SEWG determined that the content and scope of 18.01 and 18.02 "meet the science core goals to a significant extent" and therefore recommended that they be left unchanged. The Institute laboratory requirement was also judged sufficient by the Committee.

The SEWG report will be discussed at the February and March faculty meetings, and is likely to be voted on during the April meeting, according to MacVicar.

"Though there may be some reservations voiced by faculty members, I'd be surprised if the SEWG proposal didn't pass the faculty vote," Katz commented.



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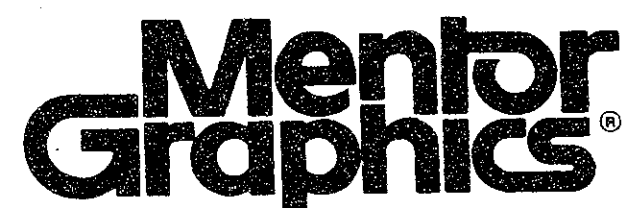
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Hotel Terminus is sidetracked by director Ophuls' pent-up feelings

HOTEL TERMINUS

THE LIFE AND TIMES OF KLAUS BARBIE
Produced and directed by Marcel Ophuls.
At the Coolidge Corner Cinema.

By MANAVENDRA THAKUR

DIRECTOR MARCEL OPHULS HAS produced in *HOTEL TERMINUS: The Life and Times of Klaus Barbie* a film that is as disappointing as it is successful. No one makes epic documentaries the way Ophuls does, and indeed, the highly complex film is a monumental exploration of both the Nazi past and its remnants in the present. But 18 years after *Le Chagrin et la Pitié* ("The Sorrow and the Pity") established his international reputation, Ophuls seems to have forgotten his famous ability for understated lamentation and downplayed the demonstrated clarity of his vision.

Ophuls originally intended to write a series of articles for *The Nation* magazine about the war crimes trial of Klaus Barbie, the ex-Gestapo chief known as the "Butcher of Lyons." Barbie was extradited from Bolivia to France in 1983. But as delays in the trial date mounted, Ophuls grew more and more frustrated and decided instead to begin filming interviews with those who had known Barbie during and after the war. By the July 1987 end of Barbie's trial Ophuls had accumulated 120 hours of footage.

From the final cut of the film, it is apparent that many persons approached by Ophuls would rather bury the Nazi past than address it forthrightly. Typical of the American intelligence officials who recruited and shielded Barbie from prosecution is Robert Taylor, who evaluated Barbie in 1945 as "an honest man" and "a Nazi idealist." When asked four decades later what he meant by those words, Taylor can only shrug and reply "I don't know." Jean-Marie Le Pen, leader of the

far-right National Front party in France, even goes so far as to claim that the number of Jews killed in the Holocaust is less than the universally accepted figure of six million.

Unfortunately, Ophuls reacts to provocative remarks like these by venting his impatience and anger as he makes fun of and argues with his subjects. At one point, Ophuls even includes a mock telephone call to a prospective interviewee, with himself playing the part of the reluctant subject, to demonstrate the typical evasions, half-truths, and denials that he encountered while making the film.

Clearly, the remarks made in the film are inflammatory enough to outrage anyone, but it was precisely for transcending reactionary emotionalism that Ophuls was so widely praised in the past. Far from leading the way with wisdom and clarity as he might have done earlier, Ophuls ends up lashing out with sarcasm and bitterness instead, and it is this tendency that imbues the film with a harsher edge that borders on the polemical.

Polemical filmmaking *per se* is hardly something to be avoided at all costs. In the proper place and time, it can be the most effective way to call attention to a problem ignored in the past. The Holocaust, however, has been the subject of countless bombasts. In fact, there have been so many that the repeated warnings to "never forget" have begun to take on an increasingly perfunctory nature. Ophuls must be aware of this since he himself has addressed the Nazi past several times, and so one wonders why he reacts as though he were being rebuffed by interviewees for the first time.

But Ophuls' awareness of the complexity of reality remains as sharp as ever, and that alone is enough to carry the film far beyond the simplifications found in television documentaries. Ophuls' films are

(Please turn to page 21)

Immigrants' struggles depicted powerfully in New Ehrlich's *Hunting Cockroaches*



One of the many insomniac discussions in *Hunting Cockroaches*.

HUNTING COCKROACHES

Written by Janusz Glowacki.
Directed by Jane Sanborn.
At the New Ehrlich Theatre.
Continues through February 19.

By PETER PARNASSA

AN IMMIGRANT POLISH COUPLE on the Lower East Side of present-day New York City is the subject of Janusz Glowacki's *Hunting Cockroaches*. When dealing with the hardships that the couple faces, the uneven play reaches brilliant heights. However, when trying to make political statements regarding life in Poland or America, the play falters while going for cheap laughs and using stage tricks that have been employed far too often.

Directed by Jane Sanborn, the Performers Ensemble's production stars Susan

Galbraith and Jerem Goodwin as the Polish couple, Anka and Jan. Though they have lived in New York for three years, the couple is worse off now than when they first arrived. Anka, a famous actress in Poland, cannot find work due to her thick Polish accent. Jan, a novelist and a playwright, cannot find the inspiration to write; instead he teaches at Staten Island Community College. Additional problems facing the couple include expired unpaid rent, and insomnia. In fact, when the show begins it is four in the morning on another sleepless night.

Galbraith's performance as Anka is quite simply a gem. Though clearly disappointed with her life in America, Anka still has a certain vitality. She auditions for part after part and encourages her husband to resume writing. In the midst of all this turmoil, she wants to start a family. (Please turn to page 18)

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ARTS

TRME's Lysistrata presented without complex interpretation

LYSISTRATA

by Aristophanes.
The Tech Random Music Ensemble.
February 3-6 and 10-12.
The Student Center.

by MARK ROBERTS

SO YOU THOUGHT PLUNGING innuendo and jokes about sex-starved men doubled up over aching erections were the prerogative of Benny Hill? The genre was alive and squirming several thousand years ago, and the TRME's production of *Lysistrata* offers plenty of both.

The story is simple: the women of Athens are tired of their husbands' continual war-making overseas and, led by Lysistrata, hatch a plot to end it and set the country back on a more peaceful footing. Seizing the temple of Athene as a stronghold, they withdraw their sexual favors until enforced celibacy brings the men to their knees. The language is a steady barrage of puns and innuendo that encompasses both straight forward smut ("sometimes you just have to take matters into your own hands...") says one of the alarmingly tumescent men) and matters closer to the issues at the bottom of all sex war comedies ("I'll soon jack these women back onto their pedestals," says the phallocratic commissioner of the "impregnable" in their stronghold). The translation is a good one, for this kind of wordplay can travel poorly.

TRME are content for the most part in this production to let the play stand on its own merits without complex staging or additional interpretation. This demands a high standard of acting to keep the pace

up, and unfortunately there are times when lack of experience shows and the action flags.

Lysistrata herself was played by M. Elizabeth Hunter (W '91). She and Lori L. Zieran '89 as the lusty Kleonike led the revolt energetically, although all the rebel women were hampered by some uninspired direction, that had them rooted to the spot in a flat line along the back of the stage for much of the first scene. This left them having to say their lines to each other over their shoulders, with eyes rolling uneasily back and forth between the front of the stage and their neighbors.

The Chorus, a standard part of any Greek play, is used by Aristophanes to point up some of his satire of other writers. This is no longer quite as scathingly topical as it once was, but there are nonetheless plenty of amusing lines of doggerel. Stephen Robbins '86 and Paul Selkirk as the "blokes with yokes," and Linda Sauter '92 and Heather Cleary '92 as the "bitches with pitchers" coped well with the unison speaking that their parts demanded of them.

As the Commissioner, Nick Papadakis gave the action a useful jolt of energy, saying his lines with the kind of wild-eyed

conviction necessary to make such broad comedy work. One does not look for naturalism in a play of this sort, but ease and pace are all-important, and these seemed to pick up over the course of the evening. The resounding vulgarity of Aristophanes' humor means this play could hardly fail to please a student audience, and further performance will doubtless polish the production.

It is good to see the Student Center being used as a venue for drama. It offers plenty of opportunities for exciting staging, in a convenient location. Let's hope that future productions explore them.

Despite fine performances, Fantasticks lacks personality

THE FANTASTICKS

Presented by the Musical Theater Guild.
February 9, 10, 11.
In the Sala de Puerto Rico.

By JULIAN WEST

IN HIS DIRECTOR'S NOTE, Gerald Skelton makes some insightful comments: "*The Fantasticks* is a play about storytelling. There is this tale needing to be told and a bunch of people acting it out for us... Is it just a story? Or is it something a little more personal?"

Unfortunately, little of this insight — little of this *personality* — comes across in his direction. *The Fantasticks* is a play about plays, and its players should exist in a limbo between characters in and actors out of character. Like the Player in *Hamlet* or the characters in *Our Town*, they should be able to speak with equal facility to the audience or to the other characters.

In this production, the actors have gen-

erally failed to find this voice. The one exception is the excellent Arthur Fuscald. An accomplished singer and strong actor, he is an ideal performer for musical comedy or light opera. As the narrator, he provided the much needed glue which held the production together.

As the young lover, Janet Ann Licini '92 had a pleasant personality and a strong voice, although she tended to whine a little in the high notes. Her opposite number, Michael Friedhoff '90, fared less well, tending to talk his way through most of his numbers.

The costumes and makeup, designed by Jeanne Sullivan G, were effective, particularly in the case of Tom Woodman '90 and Joey Bernstein G, who really looked the part of the feuding fathers.

F. Burris Jackes '90 did an outstanding job as lighting designer, overcoming the technical difficulties of mounting a performance in the Sala.

But *The Fantasticks* should have more than technical strength and a few strong voices singing attractive songs. A play this full of references to Shakespeare — there are allusions to *Romeo and Juliet*, *Hamlet*, *Julius Caesar*, *Henry V*, *Macbeth*, and *Antony and Cleopatra* — must have something to say about the theatrical experience. The two most likely characters to say it, Henry (Stephen Peters '91) and Mortimer (Tarik Alksab '92), were unfortunately unapologetic hams. There is enough humor in the situations of *The Fantasticks* without trying to lay it on with a trowel.

Despite all the Shakespeare, *The Fantasticks* makes no pretensions to being an intellectual show; part of its charm lies in its simplicity. Paradoxically, it takes genuine skill to capture this simplicity without making the lines seem banal or even random and unmotivated. Rather than charming with simplicity, MTG's production comes off as a little simple-minded.

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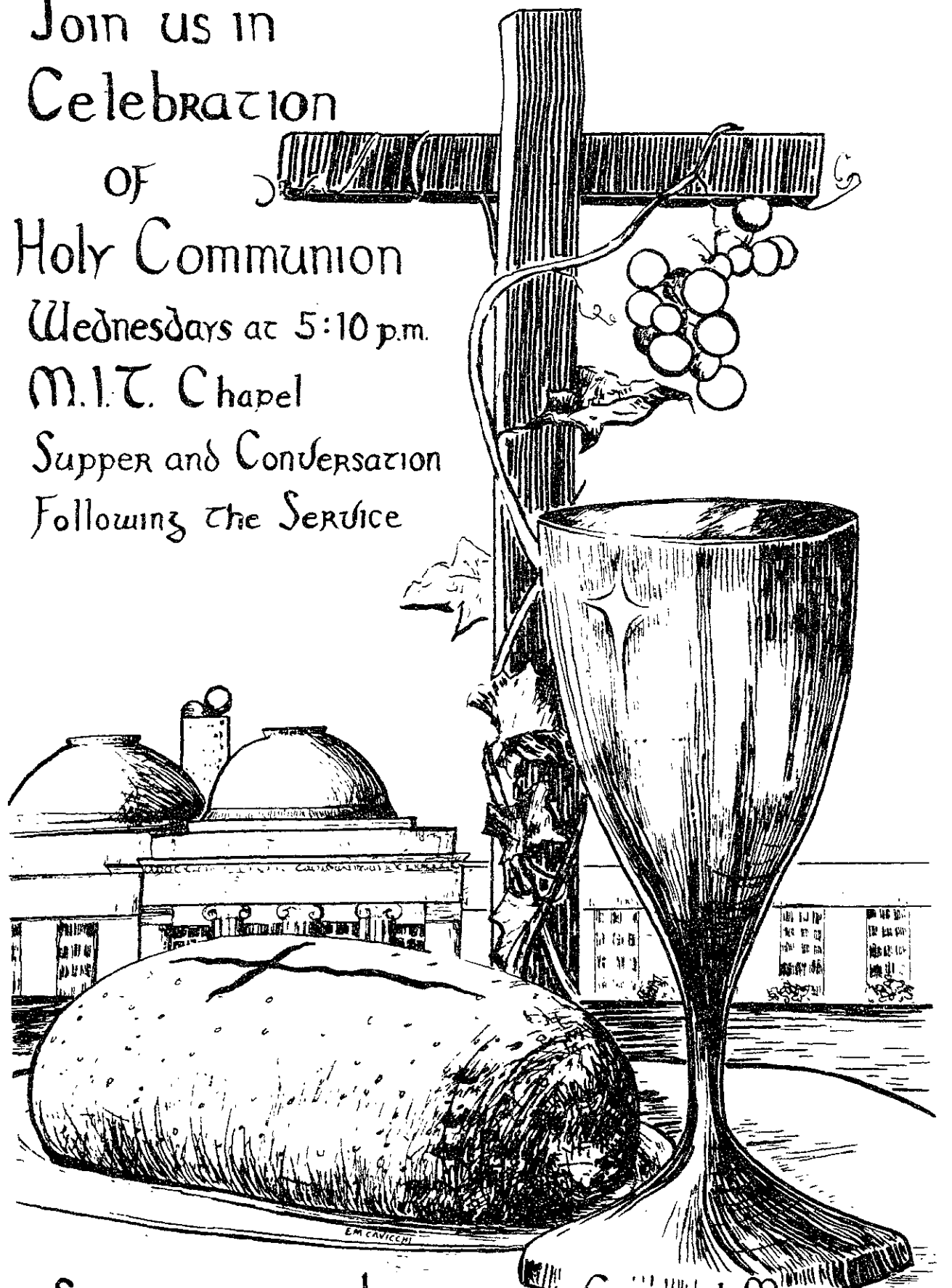


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February 8, MIT Chapel, 5:10 pm

Even Timothy Leary's burned-out drug jokes were stale

DR. TIMOTHY LEARY

An Evening of Stand-up Comedy and Philosophy.

At the Catch A Rising Star Comedy Club. Wednesday, February 1.

By DAVID M. J. SASLAV

WHAT DR. TIMOTHY LEARY was doing at Catch A Rising Star near his former home at Harvard Wednesday night, I really cannot say. It wasn't stand-up comedy (as he himself was quick to point out), and, sure enough, it wasn't funny. But neither was it cogent dissembling, deep thinking, stimulating debate, or compelling reasoning. In fact, there were virtually no redeeming elements whatsoever to Leary's presence on stage.

In a painfully long "set," Leary rambled on in a detached, quasi-improvisatory style about the need for improvisation in everyday thinking. He name-dropped and muttered his way through a condemnation of institutionalized education, and garbled a history of quantum physics. His attacks on organized religion were utterly pedantic. In defending "new thinking in the face

of accepted teaching" he never once mentioned Galileo or Copernicus, and championed the likes of former MIT professor and world-renowned crackpot Ed Fredkin. His analogies, while timely, lacked appeal. And worst of all, perhaps, he demonstrated a fundamental misunderstanding of the societal forces about which the masses had come to be enlightened. Through overgeneralization and underpreparedness, he only narrowly avoided making a complete fool of himself.

There were some diverting moments, of course, though they were few and far-between. He raised a hearty cheer when he proudly proclaimed "I'll gladly do anything Ed Meese tells me not to do!" His depiction of the ultimate Orwellian nightmare come true ("Millions of people, sitting around, sucking up junk food from the big screen in their living rooms") was apt, although an easy target. I particularly enjoyed one of his analogies, namely, that expressionism in art served as a parallel to quantum descriptions of the nature of physics.

Throw in some stale, burned-out drug jokes and you have about all that was even memorable from this arduous monologue.

Paul Kozlowski, who opened the show, looked great by comparison. His impression of a trip to the dentist, including everything from the opening strains of Muzak to the grisly climax in "The Chair," scored a hit. So did his propositions for new television fare on the religious network: "Leave It To Jesus" and "I Dream of Jesus." "Copier Repairman Day" and "Uncle Larry Day" represented potential new holidays, both devised by the greeting card companies solely to bolster sales. Un-

fortunately, though, even this nationally-acclaimed performer relied far too much on intra-set self-referencing. Some of the jokes had no endings, and had clearly not been fully thought through beforehand. By introducing an impression of John Madden explaining things to the audience on an imaginary electronic chalkboard, however, he cleverly provided himself an escape clause for jokes that no one understood. By the third time, however, even this device had grown stale.

Cockroaches diluted by political statements

(Continued from page 16)

Galbraith depicts all these characteristics perfectly. Her Anka is a woman who, underneath all her fear, has the hope and strength of the great actress she once was. In a scene which crystallizes her portrayal, Anka refuses to accept the charity of a successful American couple.

As Anka's husband Jan, Jerem Goodwin is also particularly good. He portrays Jan as a complex man who has given up hope. "Teaching Kafka to kids who drive to school in sports cars," he feels like a hypocrite. After three years of struggling, he can no longer identify with the reality of his situation. When he mentions that a friend cannot support them as promised, it is more like he is telling a story rather than experiencing it himself. Goodwin's Jan finds that he can survive only by retreating into a world of idleness and ideology.

When Glowacki focuses on these two characters, interesting insights are made into the lives of immigrants and New Yorkers. Both Anka and Jan have fears regarding their old country. They also hypothesize about what is needed to make it in America, namely a smile and the ability to sleep.

Glowacki also shows how this couple depends upon each other for everything. Both partners hold the other responsible for their failures in America. However, they also turn to one another for support and are never disappointed. Glowacki's

play beautifully captures two doomed people who are still struggling to survive.

If Glowacki would have stuck to issues regarding the nature of the couple, *Hunting Cockroaches* would have been a brilliant play. Instead, he dilutes its power by making cheap political statements. During these scenes, the audience chuckled politely in recognition of "jokes," while never really laughing at them. The actors playing in these scenes tried to breathe life into the caricatures they were portraying, but to no avail. This failure resulted from their inability to communicate with one another. Whenever other characters appeared on stage with the Anka and Jan, the conversation was always one-sided against the couple. Perhaps it was the playwright's intent to show how the couple had no hand in determining their fate. If so, this effect did not work dramatically.

All in all, however, *Hunting Cockroaches* is a worthwhile production and Galbraith's direction is excellent. She keeps the pace flowing smoothly and gives the actors plenty of room in which to experiment. The supporting actors Dare Dukes, Tom Foley, Ross Minichiello, and Mari Rovang are all good. Despite its flaws, a great deal can be learned from Glowacki's play. The struggles of immigrant life have been depicted in movies and shown on the news, but they are especially powerful on the stage. For anyone interested in this problem, *Hunting Cockroaches* is a play to see.

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PRO ARTE CHAMBER ORCHESTRA

Rafael Druian will lead the Pro Arte Chamber Orchestra in a program to include Mozart's *Symphony No. 33*, Schubert's *Symphony No. 4*, "Tragic," and Ives *Symphony No. 3*, "The Camp Meeting."

Sanders Theatre, February 12 at 3 pm. MIT price: \$6.

ENGLISH BAROQUE SOLOISTS

The world's leading interpreter of Handelian oratorio, John Eliot Gardiner, will conduct the English Baroque Soloists and the Monteverdi Choir in Handel's *Israel in Egypt*. This is the single most important event in this year's Wang Celebrity Series. Don't miss it!

Symphony Hall, February 17 at 8 pm. MIT price: \$5.

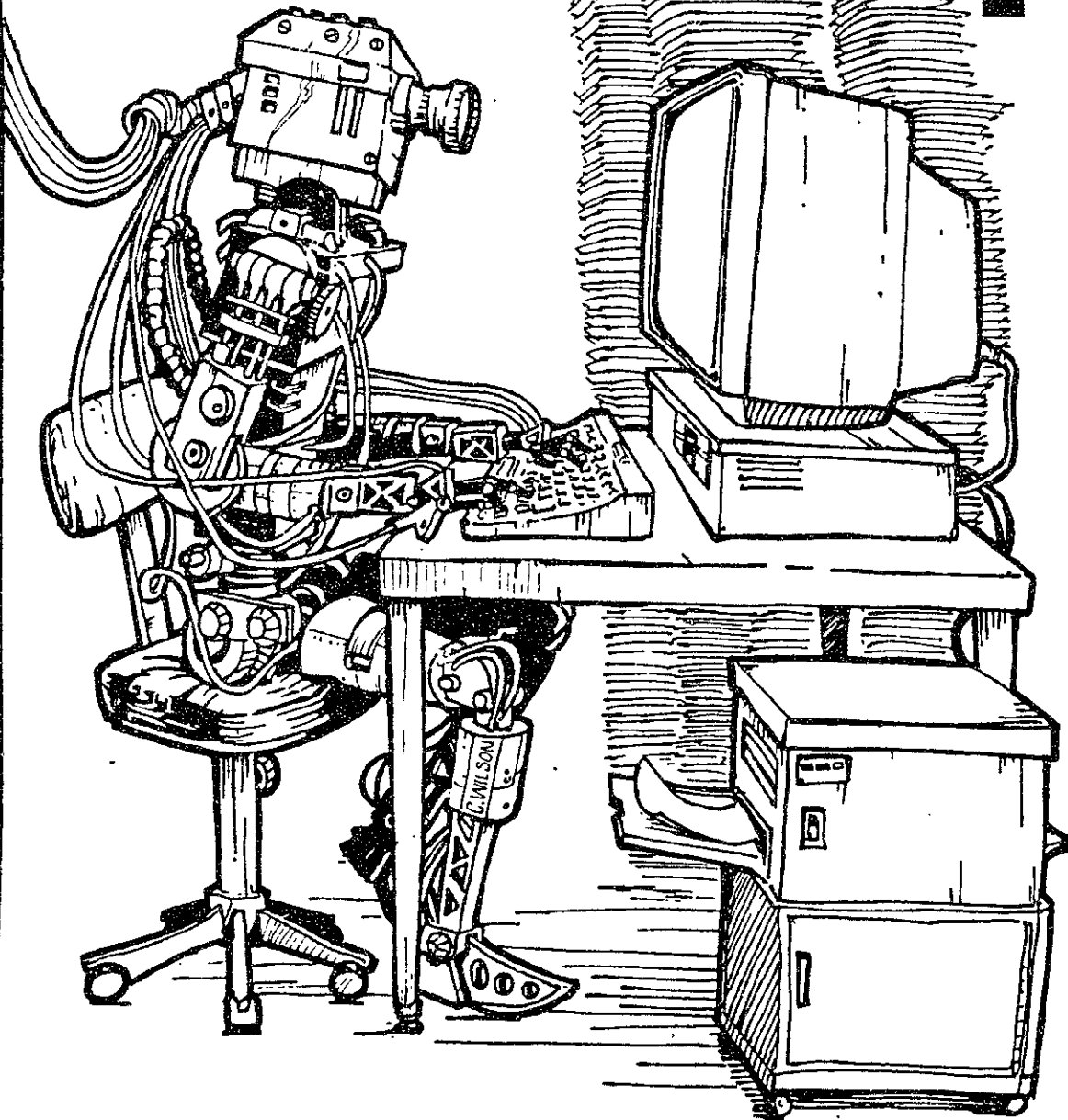
EMERSON STRING QUARTET

The Emerson String Quartet will perform Prokofiev's *Quartet No. 1 in B minor*, Haydn's *Quartet in E-flat* and Brahms' *Quartet in A minor*, Op. 51, no. 2.

Jordan Hall, February 18 at 8 pm. MIT price: \$5.

Tickets are on sale at the Technology Community Association, W20-450 in the Student Center. TCA offices are open only limited hours. Office hours are posted on the door

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ARTS

Cheap Trick's Lap of Luxury tour comes after long dry spell

CHEAP TRICK

Orpheum Theatre, Boston.
With House of Lords.
Special Appearance by Joe Perry
and Steve Tyler.
Thursday, February 2.

By ALFRED ARMENDARIZ
and STEVE FULFER

AFTER A LONG DRY SPELL, a commercial comeback can bring new energy to a band's live performances, not to mention a larger and more enthusiastic audience. On Thursday night, nearing the end of a 13-month world tour, Cheap Trick played at the Orpheum Theater. Cheap Trick is touring in support of their platinum album *Lap of Luxury*. They played a spirited set composed of songs from earlier albums and many songs off of *Lap of Luxury*. Thursday's show was one of the best live shows the Orpheum has hosted in recent months, as the veteran rockers kept the crowd screaming and on their feet for the entire 90 minutes.

Cheap Trick has ridden the roller coaster of success over their 12-year career. They enjoyed a brief platinum period in the late seventies and had a top 10 hit in 1979 with "I Want You To Want Me." However, in the eighties they went through personnel changes and lost their previous popularity. They were sentenced to a life of endless touring behind albums that sold only a fraction of the amount of their earlier material.

Lap of Luxury is Cheap Trick's first platinum album since their 1980 release *Dream Police*. With heavy airplay on both MTV and radio, "The Flame", the first single off the album, became their first #1 song in America. Guitarist Rick Nielsen, singer Robin Zander, and drummer Bun E. Carlos reunited with bassist Tom Petersson for the recording of *Lap of Luxury*. The album shows the band with renewed ability to attract new fans and produce material to satisfy long-time followers.

Cheap Trick mixed new and old in their 17-song set at the Orpheum. Carlos and Petersson set down a strong beat that backed Zander's colorful vocals and Nielsen's playful guitar. Petersson played the 12-string bass guitar melodically, giving the band a solid base while taking counter melodies to Nielsen's lead. Zander switched back and forth between acoustic and 6- and 12- string guitars as he played rhythm parts to most of the songs. The raucous three guitar sound of Nielsen/Zander/Petersson brought intensity to opener "Just Got Back" and precision to their latest hit "Ghost Town." They went on to play 5 more songs off of *Lap of Luxury*, including the electric "Let Go" and their hits "Don't Be Cruel" and "The Flame." However, the crowd really exploded when they performed their classic hits "Dream Police", "I Want You To Want Me", "Ain't That A Shame", and "Clock Strikes Ten." Tom Petersson sang lead vocals on "I Know What I Want" and played a solo introduction to "California Man" that showed off his first-rate musicianship.

Guitarist Nielsen kept in constant communication with the crowd as he introduced songs and reached out to touch



screaming fans. Midway through the first half he even gave a commentary as to the state of music in America. He asked the crowd, "How many of you watch MTV?" After hearing the loud crowd response he asked "Why?!" and continued "You watch it to see groups like Aerosmith, INXS, and Cheap Trick." The crowd answered with a loud "Yeah!" He went on, "But Tiffany and Debbie Gibson should go back to K-Mart right now! They've played some bad music before but that stuff is just . . . awful."

The big surprise of the evening came at their encore when, after playing their classic anthem "Surrender", Rick Nielsen asked "two friends" from back stage to join them. Joe Perry and Steve Tyler from Aerosmith jumped on stage. They jammed through a blistering rendition of "Train Kept A Rollin'" and a medley of the Rolling Stones' hits "It's All Over Now" and "The Last Time." Tyler sang lead vocals and both Perry and Nielsen gave rousing solos. The energy of the concert showed that Cheap Trick is ready to bring back their style of rock and reestablish themselves as the popular group they once were.

Marek Janowski directs pleasant, risk-free program

BOSTON SYMPHONY ORCHESTRA

Works by Schumann and Wagner.
Guest Conductor Marek Janowski.
At Symphony Hall, Feb. 2.
Performance tonight at 8 pm.

By JULIAN WEST

THE BOSTON SYMPHONY was fortunate to recover from the cancellation of one conductor of international stature, Giuseppe Sinopoli, by obtaining the services of another, Marek Janowski. Yet the program selected for Janowski's concerts was too conservative to fill a five-evening series.

Two expansive and evocative, if unexciting, Schumann pieces began the program,

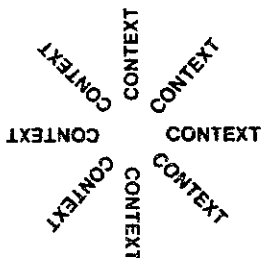
which was rounded out by two sure crowd-pleasers from the Wagnerian repertoire. The demanding Strauss tone-poem, *Also Sprach Zarathustra*, which was originally scheduled for the evening, was dropped after Sinopoli's cancellation. Janowski, noted as a Wagnerian conductor, quite naturally wished to select pieces from his own repertoire, and the Wagner preludes are a required part of the repertoire of any major orchestra.

Yet without the Strauss, the evening lacked weight. Schumann's melodic *Rhenish* Symphony created the pleasant sensation of floating down the Rhine, a sort of less-exalted *Water Music*. Surely directed and excellently performed, the piece nevertheless sounded somewhat clichéd. And, although Janowski exuded confidence and

stability from the podium, some of the movements did suffer from tempo problems.

With the Wagner, both Janowski and the BSO seemed to be on more familiar ground. The prelude to *Die Meistersinger* received a textbook performance, although again it sounded fast throughout.

The evening's highlight was the prelude to *Tristan and Isolde*, which was performed with great expression and feeling. The "*Liebestod*" was performed without a soprano, but the darkness underscoring the vocal line was effectively captured. Aside from the intrusive dissonance of the final few bars, the music built to an effective and moving climax, rounding out a thoroughly pleasant, if unadventurous and risk-free, evening.



Spring Subjects

* **Engineers, Scientists, and Public Controversies**
2.93J/8.206J/STS 012J
TR 2-3:30
James Fay
Bernard T. Feld
Charles Weiner

Accounting for the Social Consequences of Technological Change
2.94J/14.15J
MW 2:30-4
Jerome Rothenberg
David Gordon Wilson

* **Industrial Competition in the US and Asia**
3.08J/21.464J
TR 2:30-4
Joel Clark
Peter Perdue

* **Learning to Design and Designs for Learning**
11.017J/21.612J
TR 3-5
Donald Schon
Jeanne Bamberger

Biotechnology and Engineering
5.22J/10.02J
TR 10:30-12
John Essigman
Robert Langer

Technological Development and Political Change in the Middle East
1.25J/17.559J/STS 020J
M 1-4
Nazli Choucri
Fred Moavenzadeh
Leon Trilling

* HASS elective credit

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CONTEXT SUBJECTS

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ARTS

On The Town

Compiled by Peter Dunn

Tuesday, Feb. 7

CLASSICAL MUSIC

The Boston Symphony Orchestra, Marek Janowski conducting, performs works by Schumann and Wagner at 8 pm in Symphony Hall, corner of Huntington and Massachusetts Avenues, Boston. Tickets: \$16 to \$42.50. Telephone: 266-1492.

FILM & VIDEO

The Brattle Theatre begins its series *Celebrating Black History Month with Dance Black America* (D. A. Pennabaker and Chris Hegedus, 1986) and *I Promise to Remember: Frankie Lymon and the Teenagers* (Steven Fischer and Joel Sucher, 1983) at 5:30, 7:45, & 9:55. Located at 40 Brattle Street, Harvard Square, Cambridge. Tickets: \$4.75 general, \$3 seniors and children (good for the double feature). Tel: 876-6837.

The Harvard Film Archive begins its Tuesday film series *Narrative Approaches* with John Ford's *The Grapes of Wrath* (1940) at 5:30 & 8:00. Located at the Carpenter Center for Visual Arts, 24 Quincy Street, Harvard Square, Cambridge. Tickets: \$3 general, \$2 seniors and children. Telephone: 495-4700.

The Somerville Theatre presents Vincent: *The Life and Death of Vincent Van Gogh* (Paul Cox) at 6 pm, 8 pm, & 10 pm. Located at 55 Davis Square, Somerville, just by the Davis Square T-stop on the red line. Admission: \$4.50. Telephone: 625-1081.

Wednesday, Feb. 8

POPULAR MUSIC, ETC.

*** CRITIC'S CHOICE ***
O Positive, Heretrix, Tribe, and Dogzilla perform at Citi, 13 Lansdowne Street, Boston, just across from the entrance to the bleachers at Fenway ballpark, near Kenmore Square. Tickets: \$11.50 advance, \$12.50 day of show. Telephone: 262-2437.

Shake the Faith performs in a WBCN lunchtime concert at 11:30 am at the Channel, 25 Necco Street, near South Station in downtown Boston. No admission charge. Telephone: 451-1905.

THEATER

Not About Heroes, Stephen MacDon-ald's character drama about the friendship between the World War I poets Siegfried Sassoon and Wilfred Owen, opens today at the Lyric Stage Theatre, 54 Charles Street, Boston. Continues through March 12 with performances Wednesday-Friday at 8:00, Saturday at 5:00 & 8:30, and Sunday at 3:00. Tickets: \$12.50 to \$15.50. Tel: 742-8703.

JAZZ MUSIC

*** CRITIC'S CHOICE ***
Betty Carter and her trio performs at 9 pm at the Regattabar, Charles Hotel, One Bennett Street, Harvard Square, Cambridge. Performances also on February 9, 10, 11, and 12. Tickets: \$5.75 to \$13.75 depending on performance. Telephone: 864-1200.

CLASSICAL MUSIC

*** CRITIC'S CHOICE ***
The Boston Conservatory Wind Ensemble performs works by Persichetti, Holst, and Giannini at 8 pm in Seully Hall, 8 The Fenway, Boston. No admission charge. Telephone: 536-6340.

FILM & VIDEO

The Somerville Theatre presents Jean-Luc Godard's *King Lear* (1988) at 5:45 & 9:45 and *Bagdad Café* (Percy Adlon, 1988) at 7:45. Also presented Thursday, February 9. Located at 55 Davis Square, Somerville, just by the Davis Square T-stop on the red line. Admission: \$4.50 (good for the double feature). Telephone: 625-1081.

*** CRITIC'S CHOICE ***
The Harvard Film Archive continues its Wednesday series *Shakespeare on the Screen* with Laurence Olivier's *Hamlet* (1948) at 5:30 & 8:30. Located at the Carpenter Center for Visual Arts, 24 Quincy Street, Harvard Square, Cambridge. Tickets: \$3 general, \$2 seniors and children. Telephone: 495-4700.

The Brattle Theatre continues its Wednesday film series *Stranger Lands* with *Wizard of Oz* (Victor Fleming, 1939) at 4 pm & 8 pm and *Fantastic Voyage* (Richard Fleischer, 1966) at 6 pm & 10 pm. Located at 40 Brattle Street, Harvard Square, Cambridge. Tickets: \$4.75 general, \$3 seniors and children (good for the double feature). Tel: 876-6837.

Thursday, Feb. 9

POPULAR MUSIC, ETC.

Lemonheads, Volcano Suns, and Gobble Hoof (with members of Dinosaur Jr.) perform in an 18+ ages show at Citi, 13 Lansdowne Street, Boston, just across from the entrance to the bleachers at Fenway ballpark, near Kenmore Square. Telephone: 262-2437.

Agent 13, *Hiding in Public*, and *We Saw the Wolf* perform at T.T. the Bear's, 10 Brookline Street, Cambridge, just north of MIT. Telephone: 492-0082.

Winger and Mass perform in an 18+ ages show at the Channel, 25 Necco Street, near South Station in downtown Boston. Tickets: \$7.50 advance/\$8.50 at the door. Telephone: 451-1905.

CLASSICAL MUSIC

Guitarist Benit Strong performs works by Milan, Sor, Henze, and Bach as part of the MIT Thursday Noon Chapel Series at 12:05 in the MIT Chapel. No admission charge. Telephone: 253-2906.

Ensemble Project Ars Nova performs a program of 14th-century masters at 8 pm in the William I. Koch Tapestry Gallery, Museum of Fine Arts, 465 Huntington Avenue, Boston. Tickets: \$12 general, \$10 MFA members, seniors, and students. Telephone: 267-9300 ext. 306.

The Boston University School of Music begins its *Early Music Series* — *Franz Schubert and the Fortepiano* with Robert Winter in *Schubert and the Fortepiano: A Concert with Commentary* at 8 pm at the Boston University Art Gallery, 855 Commonwealth Avenue, Boston. Admission: \$7 general, \$3 seniors and students. Telephone: 353-3345.

THEATER

The Fantasticks is presented by the MIT Musical Theatre Guild at 8 pm in the Sala de Puerto Rico, MIT Student Center [see review this issue]. Also presented February 10 and 11. Tickets: \$7 general, \$5 seniors and students. Tel: 253-6294.

aha!, directed by Alan Brody, is presented by MIT Dramashop at 8 pm in Kresge Little Theatre. Also presented February 10-11, and 16-18. Tickets: \$4 general, \$3 students. Telephone: 253-4720.

DANCE

*** CRITIC'S CHOICE ***
The Boston Ballet presents *The Iconoclasts*, William Forsythe's *Love Songs*, James Kudelka's *Alliances*, and Jiri Kylian's *Symphony in D* at 8 pm at the Wang Center, 270 Tremont Street, Boston. Also presented February 10 and 11 at 8 pm and February 11 and 12 at 2 pm. Tickets: \$18.50 to \$34.50. Tel: 787-8000.

FILM & VIDEO

*** CRITIC'S CHOICE ***
The Brattle Theatre continues its Thursday/Friday series *The Second Annual Italian Festival* with a Roberto Rossellini double feature, *Paisan* (1946) at 4:00 & 7:50 and *Germany Year Zero* (1947) at 6:10 & 10:00. Located at 40 Brattle Street, Harvard Square, Cambridge. Tickets: \$4.75 general, \$3 seniors and children (good for the double feature). Telephone: 876-6837.

The Harvard-Epworth Church presents *Dead End Kids* (JoAnne Akalaitis, 1986) at 8 pm. Located at 1555 Massachusetts Avenue, Cambridge, just north of Harvard Square. Admission: \$3 contribution. Telephone: 354-0837.

EXHIBITS

Realms of Gold, gold and gilded objects ranging from Bronze Age fertility goddess to a 1988 American pin set with opals, opens today at the Museum of Fine Arts, 465 Huntington Avenue, Boston. Continues through May 7. Telephone: 267-9300.

Friday, Feb. 10

POPULAR MUSIC, ETC.

The Cavedogs, The Natives, and The Lemmings perform at T.T. the Bear's, 10 Brookline Street, Cambridge, just north of MIT. Telephone: 492-0082.

The Fools, The Drive, The Rain, Duck Tape Messiahs, Trace of Red, Lady Luck, and Valkerie perform at the Channel, 25 Necco Street, near South Station in downtown Boston. Tickets: \$7.50 advance/\$8.50 at the door. Tel: 451-1905.

Salem 66, Diddits, Still Life, and Honey-moon Killers perform at the Rat, 528 Commonwealth Avenue, Kenmore Square, Boston. Telephone: 247-8309.

The Subheds perform at 8 pm at the Paradise, 967 Commonwealth Avenue, Boston. Telephone: 254-2052.

CLASSICAL MUSIC

Pianist Rebecca Kao '90, student of Beatrice Erdely, performs works of Beethoven, Bartok, and Chopin as part of the AMP Student Recital Series at 12:05 in Killian Hall. No admission charge. Telephone: 253-2906.

Pianist Paul Orgel and cellist Christopher Costanza perform the complete cello and piano sonatas of Brahms as part of the MIT Affiliated Artist Series at 8 pm in Killian Hall. No admission charge. Telephone: 253-2906.

The Soviet émigré pianist Vladimir Feltsman performs works by Mozart, Messiaen, and Musorgsky at 8 pm in Symphony Hall, corner of Huntington and Massachusetts Avenues, Boston. Tickets: \$18, \$20, and \$22. Telephone: 266-1492.

The Boston Chamber Music Society performs works by Schumann, Kirchner, and Glazunov at 8 pm in Jordan Hall, New England Conservatory, 290 Huntington Avenue, Boston. Tickets: \$7, \$10, and \$15. Telephone: 536-6868.

Pianist/composer Ruth Schmid-Gagnebin performs works by Haydn, Beethoven, Schmid-Gagnebin, and Chopin at 8 pm in Paine Hall Music Building, Harvard University, Cambridge. Telephone: 787-8000.

*** CRITIC'S CHOICE ***
Harpichordist Frances Fitch performs works by Bach, Scarlatti, Valente, Frescobaldi, Weckmann, and Pinkham at 8 pm in the Edward Pickman Concert Hall, Longy School of Music, Follen and Garden Streets, Cambridge. Admission: \$10. Telephone: 876-0956.

The Boston University School of Music continues its *Early Music Series* — *Franz Schubert and the Fortepiano* with Robert Winter and Hazel O'Donnell in *The Classical Viennese Fortepiano versus the Threshold Romantic Fortepiano* at 8 pm in Jewett Auditorium, Wellesley College, Wellesley. No admission charge. Telephone: 353-3345.

THEATER

Lysistrata, by Aristophanes, is presented by The Tech Random Music Ensemble at 7:30 in the Twenty Chimneys Lounge, MIT Student Center [see review this issue]. Also presented February 11 and 12.

Gilbert and Sullivan's *Trial by Jury* is presented by the MIT Gilbert and Sullivan Players, along with orchestral selections from works of Sullivan and Elgar, at 8 pm in 6-120. Also presented Saturday, February 11 at 2 pm. No admission charge. Telephone: 494-1618.

An Evening with Mark Twain, with Stan Gill, opens today at the Boston Baked Theatre, 255 Elm Street, Davis Square, Somerville. Performances are Thursday, Friday at 8:15, Saturday at 7:00 & 9:15, and Sunday at 3:00. Tickets: \$11 to \$14 general, \$2.50 discount to seniors and students. Telephone: 628-9575.

FILM & VIDEO

The MIT Lecture Series Committee presents *Citizen Kane* (Orson Welles, 1941) at 7:30 in 10-250 and *A Fish Called Wanda*, starring John Cleese, Jamie Lee Curtis, and Kevin Kline, at 7:00 & 10:00 in Kresge. Admission: \$1.50. Telephone: 258-8881.

The Somerville Theatre presents *Who Framed Roger Rabbit* at 5:45 & 9:45 and *Big* at 7:45. Also presented Saturday, February 11. Located at 55 Davis Square, Somerville, just by the Davis Square T-stop on the red line. Admission: \$5 (good for the double feature). Telephone: 625-1081.

The Brattle Theatre continues its Thursday/Friday series *The Second Annual Italian Festival* with a Roberto Rossellini double feature, *Stromboli* (1949) at 4:00 & 7:40 and *A Voyage to Italy* (1953) at 6:00 & 9:45. Located at 40 Brattle Street, Harvard Square, Cambridge. Tickets: \$4.75 general, \$3 seniors and children (good for the double feature). Telephone: 876-6837.

The French Library Ciné Club begins its series *Comic Relief* with a Max Linder Special: *Seven Years Bad Luck* (1921) and *Max Plays at Drama* (1910) at 8 pm. Located at 53 Marlborough Street, Boston, near the Arlington T-stop on the green line. Tickets: \$3.50 general, \$2.50 Library members. Telephone: 266-4351.

Saturday, Feb. 11

POPULAR MUSIC, ETC.

*** CRITIC'S CHOICE ***
Bullet Lavolta and The Titans perform at the Rat, 528 Commonwealth Avenue, Kenmore Square, Boston. Telephone: 247-8309.

The Neats, The Matweeds, and Witch Doctor perform at T.T. the Bear's, 10 Brookline Street, Cambridge, just north of MIT. Telephone: 492-0082.

New Man performs at 8 pm in an all ages show, and at 11 pm in a 21+ ages show, at Nightstage, 823 Main Street, Cambridge, just north of MIT. Tickets: \$9/\$8. Telephone: 497-8200.

CLASSICAL MUSIC

The Egmont Trio performs music from Baroque England to modern Russia, including works by Beethoven, Shostakovich, and Haydn, at 8 pm in the Edward Pickman Concert Hall, Longy School of Music, Follen and Garden Streets, Cambridge. Tickets: \$5 general, \$4 seniors and students. Telephone: 536-2386.

FILM & VIDEO

The MIT Lecture Series Committee presents *Who Framed Roger Rabbit* at 3:00 in 26-100 and at 7:00 & 9:30 in Kresge. Admission: \$1.50. Telephone: 258-8881.

The Brattle Theatre continues its Saturday/Sunday film series *Reel Novels* with *Doctor Zhivago* (David Lean, 1965) at 1:30 & 8:30 and *Far From the Madding Crowd* (John Schlesinger, 1967) at 5:00. Located at 40 Brattle Street, Harvard Square, Cambridge. Tickets: \$4.75 general, \$3 seniors and children (good for the double feature). Tel: 876-6837.

The French Library Ciné Club continues its series *Comic Relief* with René Clair's *A nous la liberté* (*Liberty of Us*, 1931) at 8 pm. Located at 53 Marlborough Street, Boston, near the Arlington T-stop on the green line. Tickets: \$3.50 general, \$2.50 Library members. Telephone: 266-4351.

COMEDY

Paula Poundstone performs at 7 pm at the Paradise, 967 Commonwealth Avenue, Boston. Telephone: 254-2052.

Sunday, Feb. 12

POPULAR MUSIC, ETC.

Robert Jr. Lockwood and Matt "Guitar" Murphy perform at 8 pm & 10 pm at Nightstage, 823 Main Street, Cambridge, just north of MIT. Tickets: \$10. Telephone: 497-8200.

JAZZ MUSIC

*** CRITIC'S CHOICE ***
The Dave Brubeck Quartet performs at 7:00 & 9:30 at the Regattabar, Charles Hotel, One Bennett Street, Harvard Square, Cambridge. Tickets: \$17.50. Telephone: 864-1200.

FILM & VIDEO

The MIT Lecture Series Committee presents *Monty Python's The Meaning of Life* at 7:00 & 9:30 in 26-100. Admission: \$1.50. Telephone: 258-8881.

*** CRITIC'S CHOICE ***
The Somerville Theatre presents *Crossing Delancey* at 5:30 & 9:45 and *Uzo Itami's Tampopo* (1987, Japan) at 7:30. Also presented February 13 and 14. Located at 55 Davis Square, Somerville, just by the Davis Square T-stop on the red line. Admission: \$5 (good for the double feature). Telephone: 625-1081.

The Brattle Theatre continues its Saturday/Sunday film series *Reel Novels* with *Doctor Zhivago* (David Lean, 1965) at 4:50 and *Far From the Madding Crowd* (John Schlesinger, 1967) at 1:30 & 8:30. Located at 40 Brattle Street, Harvard Square, Cambridge. Tickets: \$4.75 general, \$3 seniors and children (good for the double feature). Tel: 876-6837.

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LSE

An Announcement

Bose Foundation is sponsoring a full one-year fellowship for a first year graduate student in electrical engineering and computer science at MIT.

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Nomination for the fellowship will be by faculty recommendation or by direct application by the student.

For more information, contact the Graduate Office or write:

BOSE Foundation
The Mountain
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Attn: Susan Herman

Application deadline extended through February 28, 1989.

BOSE

ARTS

CLASSICAL MUSIC

*** CRITIC'S CHOICE ***
The Chicago Symphony Orchestra, Sir Georg Solti conducting, performs Schubert's *Symphony No. 5 in B-flat Major (D. 485)* and Shostakovich's *Symphony No. 8, Opus 65* at 8 pm in Symphony Hall, corner of Huntington and Massachusetts Avenues, Boston. Tickets: \$25 and \$30. Telephone: 266-1492.

Pro Arte Chamber Orchestra, Rafael Drulian conducting, performs works by Mozart, Schubert, and Ives at 3 pm in Sanders Theater, Quincy and Kirkland Streets, Harvard Square, Cambridge. Tickets: \$6 to \$18 (reduced-price tickets also offered through *The Tech* Performing Arts Series). Telephone: 661-7067.

The Greater Boston Choral performs Handel's *Coronation Anthem #3 "My Heart is Inditing"* and Haydn's *D Major Keyboard Concerto* and "Missa in Angustiis" at 3 pm in Cohen Auditorium, Tufts University. Tickets: \$8 general, \$4 seniors and students. Tel: 391-7458.

Dinosaur Annex Music Ensemble performs works by Robert Ceely, Judith Weir, Ruth Lomon, Allen Anderson, and Eve Beglarian at 8 pm at the First and Second Church, 66 Marlborough Street, Boston. Tickets: \$8.

The Boston University School of Music continues its *Early Music Series* — *Franz Schubert and the Fortepiano* with Carol Lieberman and Mark Kroll in *The Sonatas for Violin and Fortepiano* at 8 pm at the Boston University Concert Hall, 855 Commonwealth Avenue, Boston. Admission: \$7 general, \$3 seniors and students. Telephone: 353-3345.

Members of the Muir Quartet with pianist David Deveau perform works by Mozart, Ernst von Dohnanyi, and Brahms at 8 pm at the All Newton Music School, 321 Chestnut Street, West Newton. Tickets: \$12. Telephone: 527-5317.

The Boston Chamber Music Society performs works by Schumann, Kirchner, and Glazunov at 8 pm in Sanders Theater, Quincy and Kirkland Streets, Harvard Square, Cambridge. Tickets: \$7, \$10, and \$15. Telephone: 536-6868.

Monday, Feb. 13

FILM & VIDEO

The Harvard Film Archive continues its Monday film series *Three Directors: Hitchcock, Dreyer, and Godard* with *Blackmail* (Alfred Hitchcock, 1929) at 5:30 and *Murder!* (Alfred Hitchcock, 1931) at 8:00. Located at the Carpenter Center for Visual Arts, 24 Quincy Street, Harvard Square, Cambridge. Tickets: \$3 general, \$2 seniors and children, \$5/\$4 for the double feature. Tel: 495-4700.

Ongoing Theater

The Crucible, Arthur Miller's carefully crafted drama of the Salem Witch Trials, continues through February 19 at the Wheelock Family Theatre, 180 The Riverway, Boston, near the Fenway T-stop on the green line. Performances are Friday and Saturday at 7:30, Sunday at 3:00. Tickets: \$6. Telephone: 734-5203.

*** CRITIC'S CHOICE ***

Mastergate, Larry Gelbart's parody on the behavior of elected and appointed officials, and the role of the media in public life, continues through March 5 as a presentation of the American Repertory Theatre Company at the Loeb Drama Center, 64 Brattle Street, Harvard Square, Cambridge. Tickets: \$14 to \$28. Telephone: 547-8300.

Ongoing Exhibits

ON CAMPUS

Clockwork, an eclectic selection of clocks and timepieces, in the Hayden Gallery; **Specious Origins: Fauna and Herbarium**, two recent photography projects by contemporary Spanish artists Joan Fontcuberta and Pere Formiguera, in the Reference Gallery; and **Recent Acquisitions to the MIT Permanent Collection** in the Bakalar Sculpture Gallery all continue through February 12 in the List Visual Arts Center, MIT Weisner Building E15, 20 Ames Street. Gallery hours are Monday-Friday 12-6, Saturday-Sunday 1-5. No admission charge. Telephone: 253-4680.

Richard Filipowski: Drawings, Paintings, and Sculptures continues through February 24 in the MIT Museum Compton Gallery, between lobbies 10 and 13. Gallery hours are Monday-Friday 9-5. No admission charge. Telephone: 253-4444.

Korean Crafts and Paintings, including oriental ink paintings by Chung Shin Lee, continues through March 25 at the MIT Museum, 265 Massachusetts Avenue, Cambridge. Gallery hours are Tuesday-Friday 9-5, Saturday-Sunday 12-4. Admission: \$2 general, free to MIT community. Telephone: 253-4444.

OFF CAMPUS

*** CRITIC'S CHOICE ***
Photographs by Ulay & Marina Abramovic, Mary Beth Edelson, Patrick Nagatani & Andr  e Tracey, Arnulf Rainer, and Cindy Sherman, continues through February 26 at the Photographic Resource Center, Boston University, 602 Commonwealth Avenue, Boston. Telephone: 353-0700.

*** CRITIC'S CHOICE ***
Goya and the Spirit of Enlightenment continues through March 26 at the Museum of Fine Arts, 465 Huntington Avenue, Boston. Tel: 267-9300.

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. Continues through March with screenings Tuesday-Thursday at 11 am, 1, 2, 3, 7, & 8 pm, Friday also at 9 & 10 pm, and Saturday-Sunday every hour from 10 am to 8 pm. Admission: \$5 general, \$3 seniors and children. Tel: 742-6088 or 723-2500.

Upcoming Events

Lene Lovich at the Paradise on February 16. **Dance Theatre of Harlem** at the Wang Center, February 17 to 19. **They Might Be Giants** at the Paradise on February 22. **Bruce Cockburn** at the Opera House on March 3. **Lou Reed** at the Orpheum Theater, March 10 and 11. **Dead Milkmen** at the Paradise on March 16. **R.E.M.** at the Boston Garden on April 16.

Magazine project dropped for disappointing and successful Klaus Barbie documentary

(Continued from page 16)

four and a half hours long precisely because he refuses to insult the intelligence of the audience by packaging decades of history into ready-made and predigested chunks. The thematic issues that underlie Barbie's story are as rich and complex as the geographic and historical span is broad, and Ophuls' film rises to the occasion.

This is most apparent in the film's last hour, where Ophuls concentrates on Jacques Verg  s, the left-wing lawyer who vehemently defended Barbie inside and outside the courtroom. Like the strong-willed defense counsel in Stanley Kramer's *Judgment at Nuremberg* (1981), Verg  s argued that the atrocities Barbie was accused of committing were necessary to ensure the success of the Nazi regime. Verg  s brilliantly underscored his arguments by reminding the French prosecutors and public that France justified its own tortures and atrocities in Algeria with precisely the same claim. This one issue alone immediately raises wrenching dilemmas about moral relativism, historical accuracy, personal motivations, legal precedents, and a host of others. Ophuls, to his immense credit, presents the vast complexities involved without exaggerating or simplifying any of them.

Ophuls also has a startling ability to foster debate among people who are not directly speaking to each other. His technique is to ask penetrating questions to one person, ask similar or follow-up questions to another person, and then feed the answers back to the original person to compare responses. This is, of course, the classic role of a moderator, but there is a crucial difference between Ophuls and, say, Ted Koppel. That difference is the power of editing afforded by the medium of the film, an ability which is considerably more flexible than cutting off a speaker or interrupting a heated discussion. This difference has the direct and immediate result of introducing an added element to the criteria by which Ophuls' work should be judged: the ability to edit the large amount of footage into a coherent, meaningful whole.

It is reassuring to realize that Ophuls' expertise in knowing what to film remains intact after all these years. It is that ability, after all, which brings so many fascinating points to light and fuels the film's progress toward artistic success. That is why it is so unfortunate that the film became sidetracked by Ophuls' pent-up feelings. One can only hope that his resort to didacticism was cathartic enough to allow Ophuls to reach in his next film the moving and inspiring heights he was known for in the past.



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Adieu, y buena fortuna, Mark. Thanks for all the work, soul, and friendship you've put into the newspaper — you'll not be forgotten. — The Tech

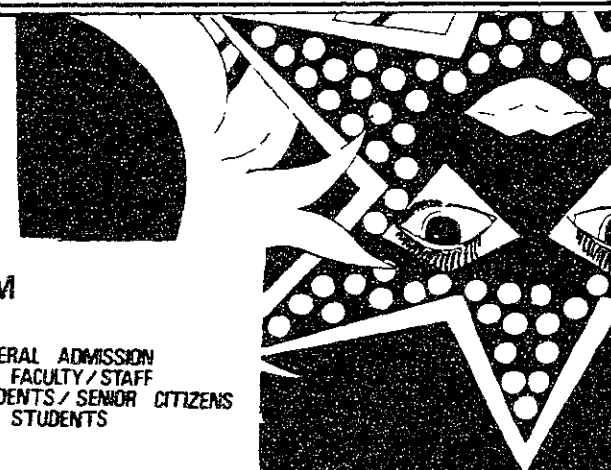
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THE RAT'S RIDDLE

ATTENTION CLASS of 1991

The Class of 1991 Ring Committee, in conjunction with the Ring Premiere, challenges their classmates to be first to solve "The Rat's Riddle." In the upcoming issues of *The Tech*, clues leading to the name of a distinguished MIT alumnus will be published in this cartoon, "The Rat's Riddle," named after the "Brass Rat" ring. Members of the Sophomore Class are invited to solve the riddle by piecing clues together and arriving at the correct alumnus name. The first student to correctly identify the alumnus will receive half off his/her 10K ring.

RULES

Only members of the 1991 undergraduate class may enter. Members of the Ring Committee are not eligible. One answer per envelope allowed.

Winning entry will be determined by the earliest postmarked envelope sent to address below.

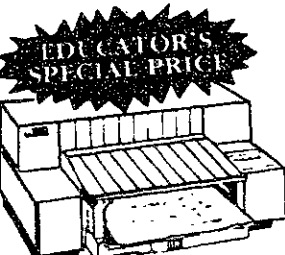
The name of the distinguished Alumnus, name of first student to solve the riddle, and explanation of clues will be announced at the Class of 1991 Ring Premiere, March 2, in the Bush Room.

BONUS — The first person to correctly explain all the clues and identify the Alumnus will receive half off his/her 10K ring.

Mail entries to: Jostens — "Rat's Riddle" — Box 331 — Foxboro, MA 02035

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ARTS FUNDING AVAILABLE

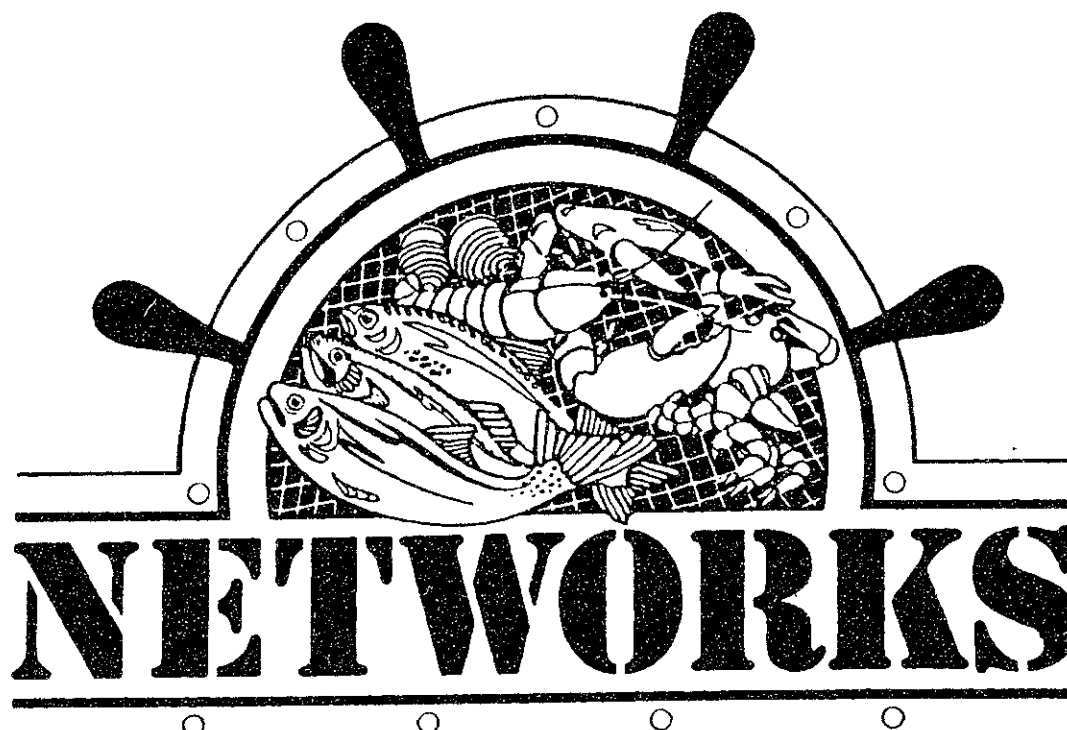
The Grants Program of the Council for the Arts at MIT is now accepting applications for its third deadline of the 1988-89 academic year, on **Monday, February 13.**

The Grants Program has been established to promote cultural activity at MIT by providing financial and administrative support to arts projects in all disciplines. The Program welcomes proposals which offer members of the MIT community opportunities to create, participate in, and learn about the arts. Typical projects include the design and production of new work, performances, exhibitions, film/video screenings, and cultural programs. Grant awards may range from a few hundred to several thousand dollars. Applications submitted by students receive primary consideration in the review process. Previous experience in the arts is not a requirement for funding. The final deadline for this year is April 10.

Please stop by the Council officer (E15-205, Wiesner Building) for application forms and Grants Guidelines brochures, or call Mark Palmgren for more information (x3-4003).

The Tech News Hotline x3-1541

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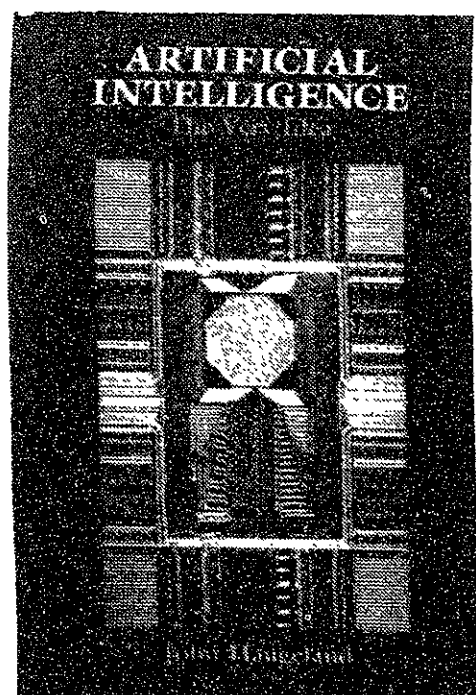
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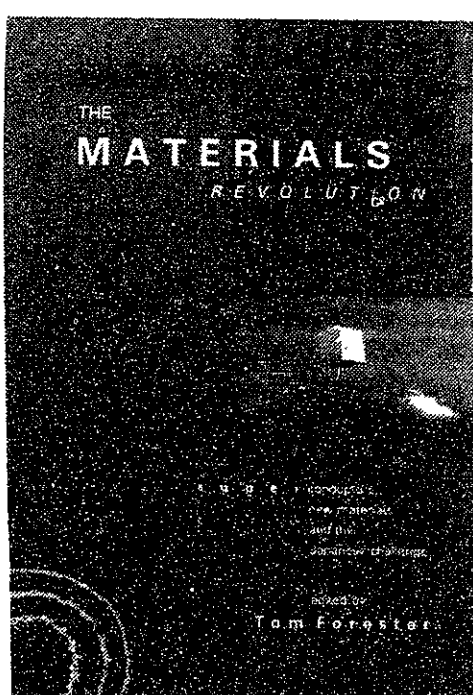
Artificial Intelligence: The Very Idea
by John Haugeland
"Haugeland has done an outstanding job of putting the central ideas and claims of AI in perspective — and this is something no one has yet done well."
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The idea that human thinking and machine computing are "radically the same" provides the central theme for this marvelously lucid and witty book on what artificial intelligence is all about. Although presented entirely in nontechnical terms, it neither oversimplifies the science nor evades the central philosophical issues.

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The Artificial Intelligence Debate:
False Starts, Real Foundations
edited by Stephen R. Graubard
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The Materials Revolution
Superconductors, New Materials, and the Japanese Challenge
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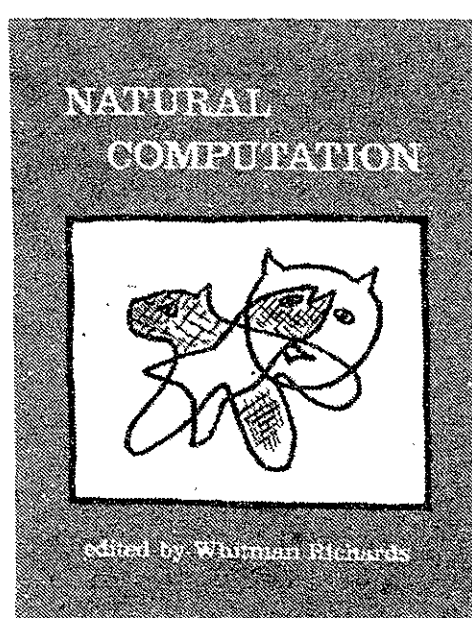
The "Ages" of human progress are named after different materials — stone, bronze and iron. Now a new wave of man-made "advanced" materials such as superconducting ceramics and high-performance plastics are set to transform products and production processes — and perhaps with it our economic and social structures. In this timely and readable book, an international team of materials experts describe the enormous potential of new materials and discuss why this revolution will present a major challenge to managers and politicians of the next century. Illustrated, \$16.95 paper

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Tech's Books for Techies

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The MIT Press



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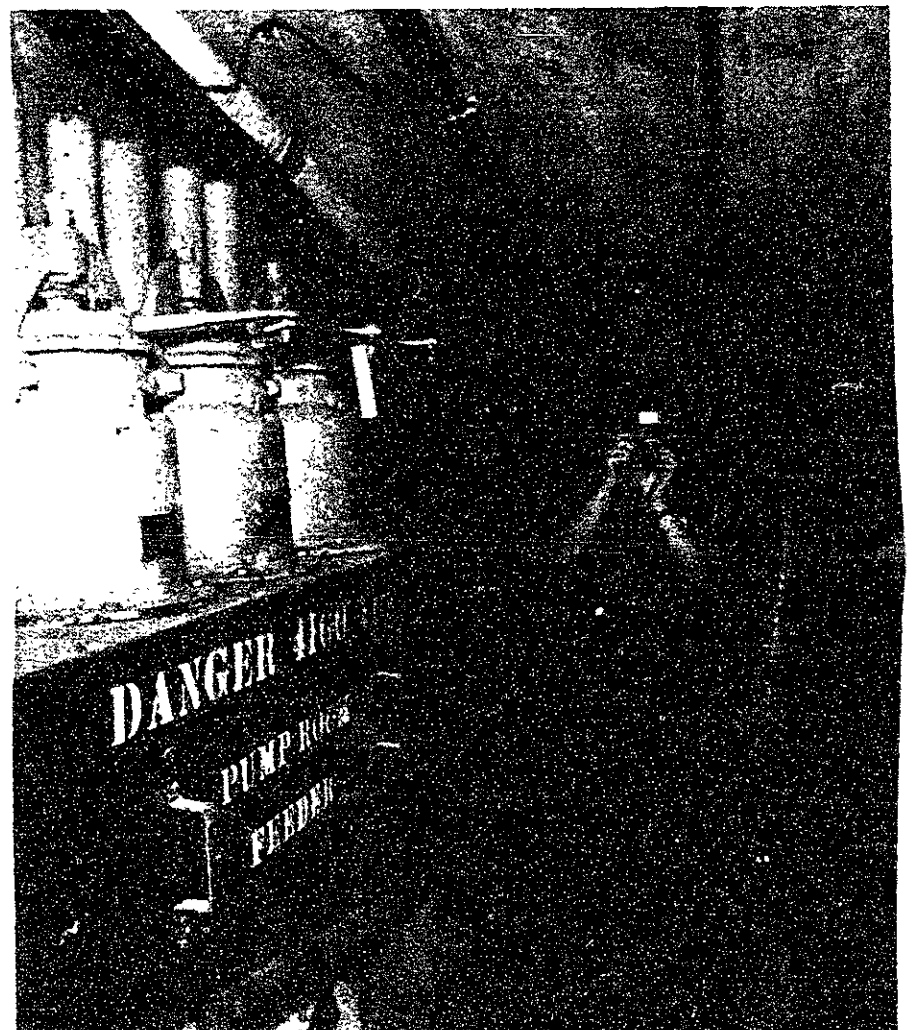
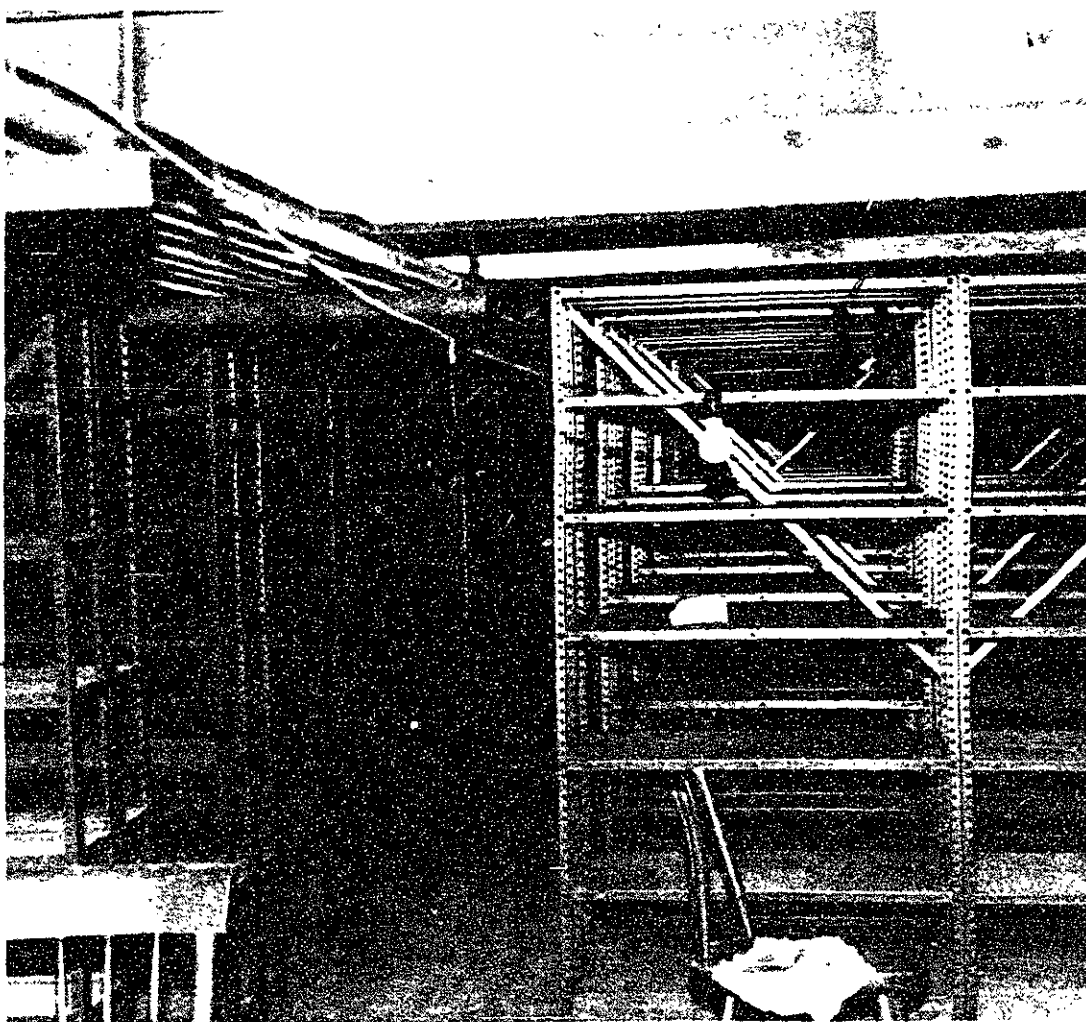
A tech photo essay by Simson L. Garfinkel



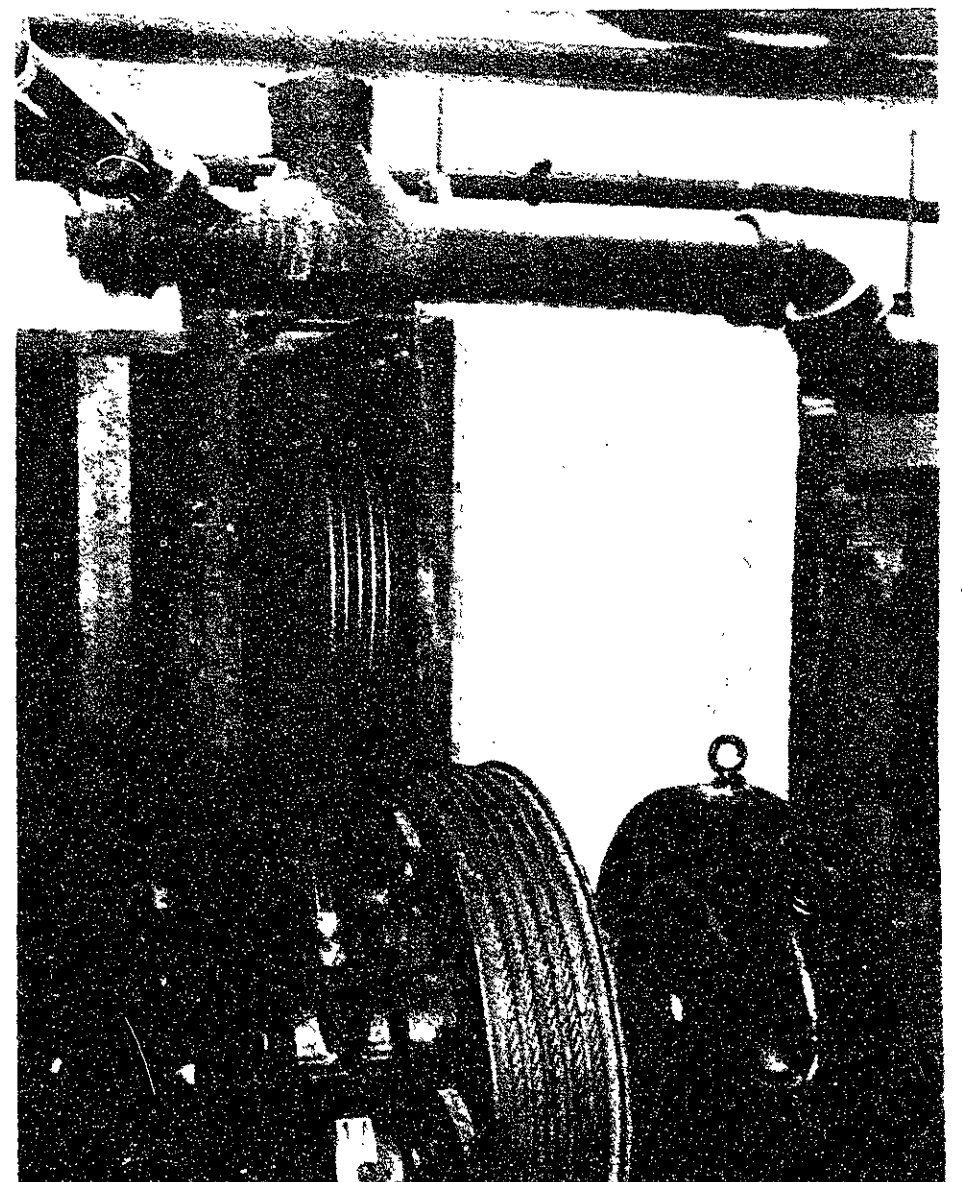
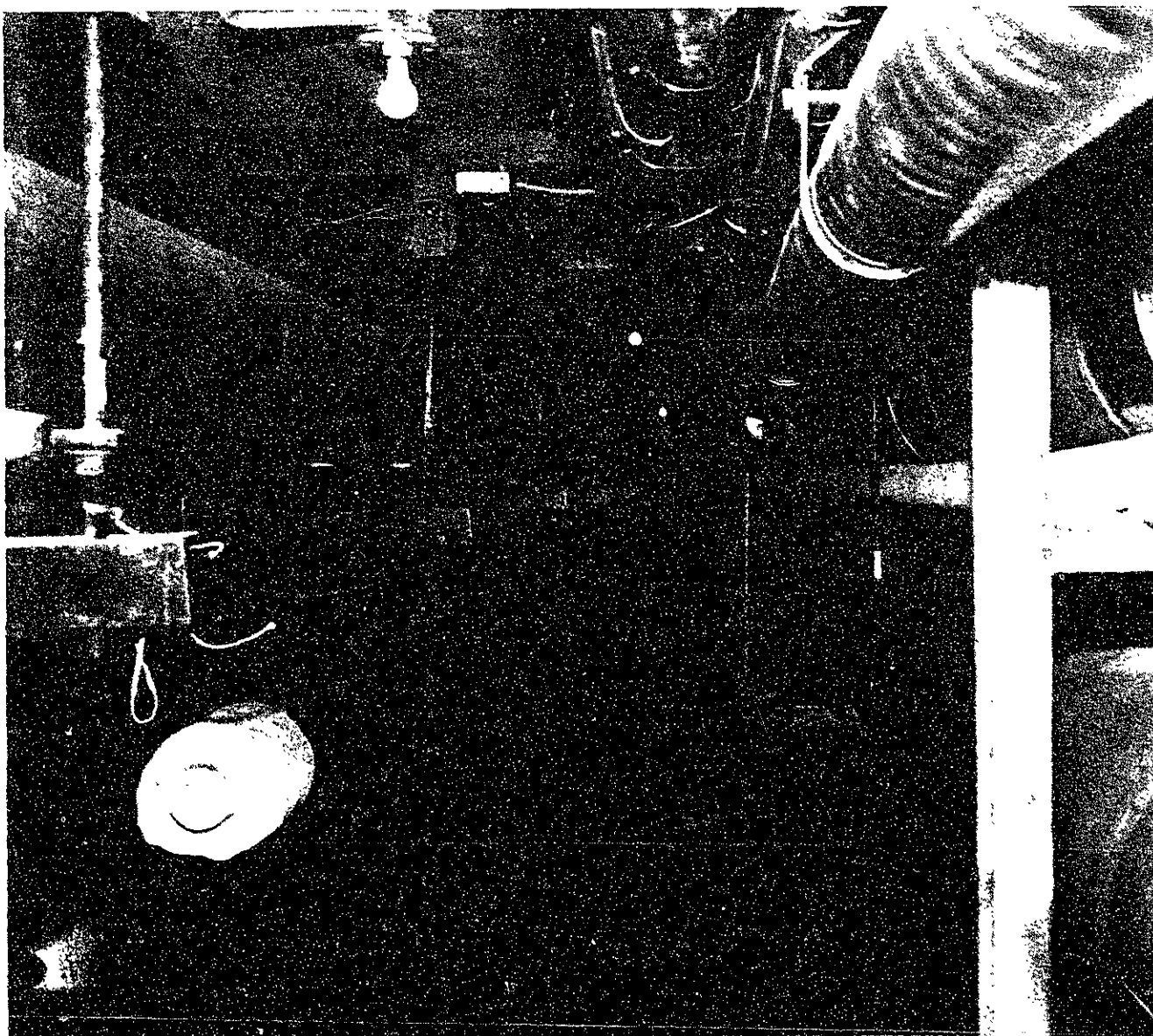
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— *Linda Archer, Product Manager Intern
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— *Audra Uzpurvis, Product Manager Intern
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— *Bill Rossi, Project Manager Intern
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Credit classes for IAP grow in popularity

(Continued from page 1)

Reactions among faculty and students who participated in the credit courses were mixed. The consensus seemed to be that the courses were interesting and useful, but some faculty members questioned the feasibility of teaching, and learning, a full term's worth of materials in one month.

"I don't know if you can do a serious 12-unit course in 3½ weeks," said Professor Nancy H. Hopkins, who taught two courses, the 12-unit Genetics (7.56) and the six-unit Genetics and Molecular Medicine (7.57J), with several other members of the biology faculty.

"I have mixed feelings about [the credit courses]," Hopkins said. "It's an enjoyable format for the students and for faculty . . . but we didn't have time to correct the direction of the course." Hopkins explained that, in retrospect, the professors teaching the course saw that it had been taught at too easy a level.

Hopkins also pointed to the excessive amount of time the courses required of both the students and the faculty.

Her thoughts were echoed by Professor Michel Baranger, who taught Introduction to Special Relativity (8.20). "You don't realize how much of a drain [it is going to be]," he said. "It's a very efficient way of teaching, of learning . . . but it must be *really* full-time." Twenty-five students took Baranger's course for credit, including 10 freshmen.

Freshman attendance varied widely from course to course. Some courses, like Instructor Charles D. Paton's Introductory Instrumentation Laboratory, were aimed specifically at freshmen, while others, like the real estate seminars offered by the Center for Real Estate, attracted primarily graduate students.

Response to the issue of compensating the instructors of credit-bearing courses varied among departments; some faculty members essentially volunteered their time.

In the Foreign Languages and Literatures section, teaching an IAP course is equivalent to teaching a full-semester course in terms of an instructor's course load, according to administrative officer Phyllis Guterman. The IAP foreign language courses are popular every year, and meet daily for three hours.

Hopkins said that the question of compensation had never been formally raised, but that she expected to have her spring teaching load reduced.

Faculty taught most of the courses, but some, like Professor Markus Zahn, who led Introduction to Computer Methods (10.001), said that more work should be given to graduate teaching assistants.

The IAP credit courses were a varied group. There were the typical offerings, like the intensive language programs and introductory laboratory courses. And there were some not-so-typical programs.

Graduate student Lawrence McKenna led a group of seven students to Death Valley, CA, for a six-unit course on the geological study of basin-formation processes. The trip, which is conducted every IAP, is partially funded by the Institute, and partially by the students themselves.

Another course, "Reporting Science and Technology: Writing Feature Articles," matched students with members of the Knight Fellowship Program, which brings science journalists from around the world to MIT for a year of study.



Mike Niles/The Tech
Setter Charles Lee '89 passes the ball during MIT's victory over Dartmouth Saturday.

Setback for residents

(Continued from page 1)

never offered any coherent argument that if given proof [of the housing impact] that you would decide differently [than the board did in March]."

Board chairwoman Ellen M. Semonoff said that Mason's objections were legally irrelevant, and that Mitchell had explicitly upheld the board's right to exclude the evidence. She also believed that, even if proof of the negative impact of University Park were admitted, it would have no bearing on the case.

Sally Ackerman and Fred Cohn, the two landlord representatives on the five-person board, joined Semonoff in deciding that no fact-finding hearing was required.

Noble said yesterday that the board was "railroading" MIT's removal permit through. The board, as the object of the ten-

ants' October suit, now finds it difficult to remain a neutral party, Noble charged. Rather it is acting as an "accomplice" in trying to secure the permit, he continued.

A hearing officer should be allowed to report on the housing impact of University Park, and make recommendations regarding the removal permit with this information in mind, Noble said. If this were done, the board might be forced to reconsider granting the permit.

MIT spokesman Ronald P. Suduiko had not received a Notice of Ruling from the board on its Wednesday night action as of yesterday, and he declined to speculate on the meaning of the decision. He did reiterate the MIT position that it has mitigated the hardship on tenants and that the city's housing stock would be helped by the plan.

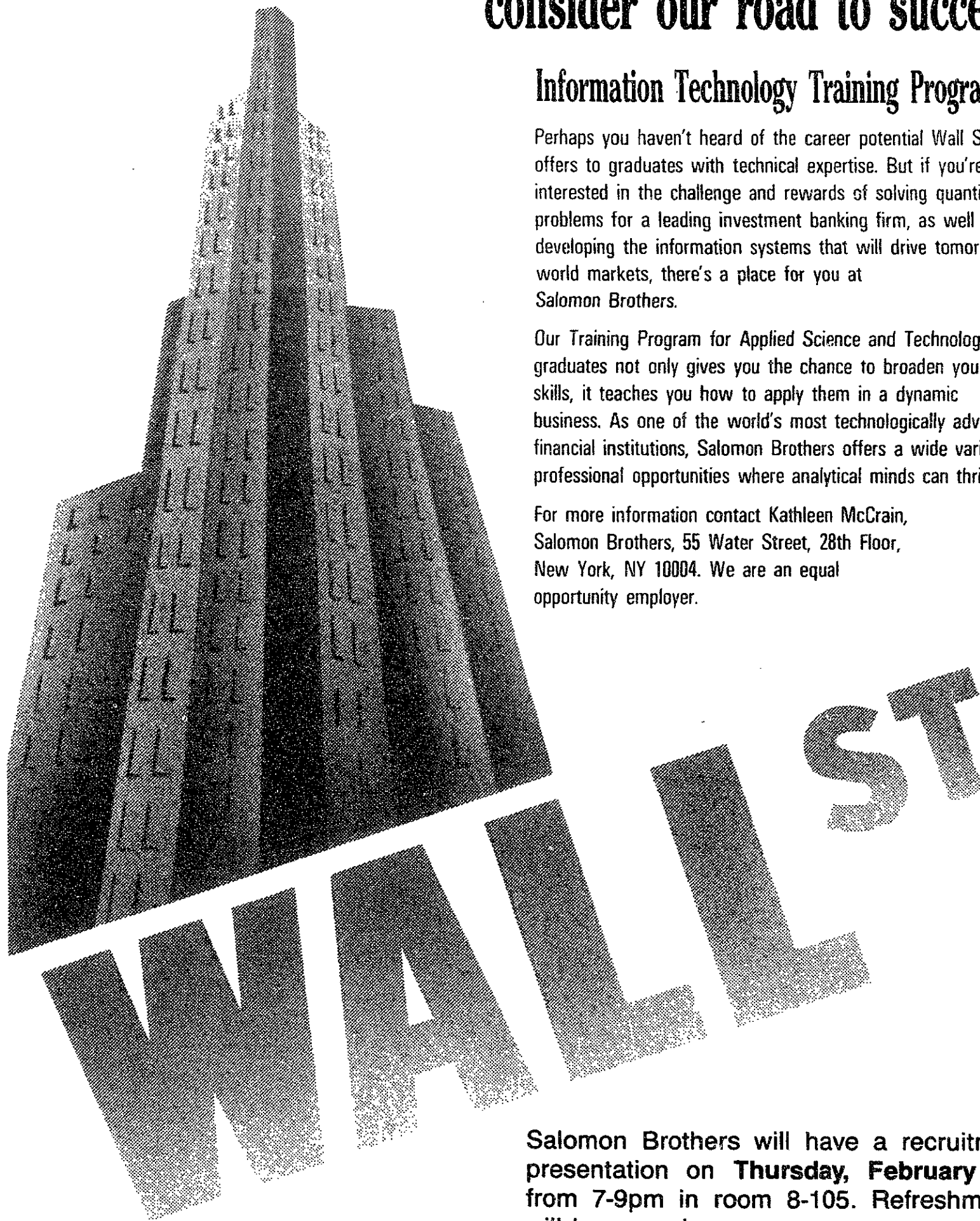
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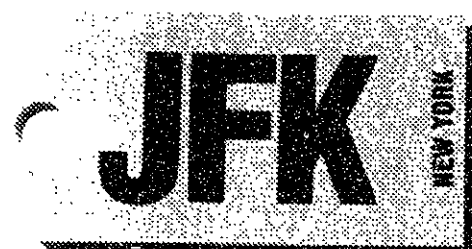
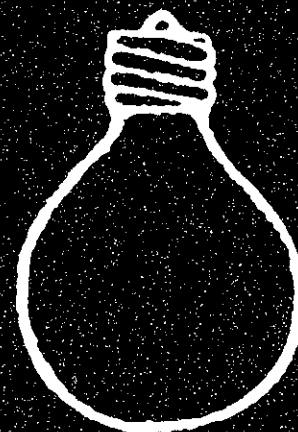


Salomon Brothers will have a recruitment presentation on **Thursday, February 16**, from 7-9pm in room 8-105. Refreshments will be served.

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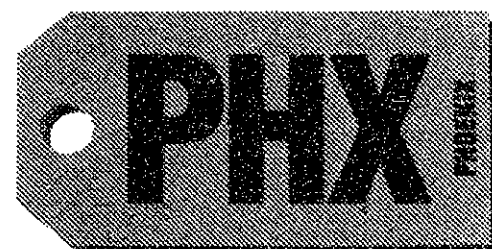
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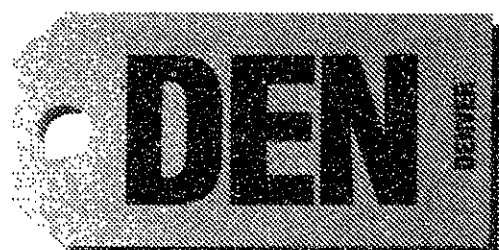
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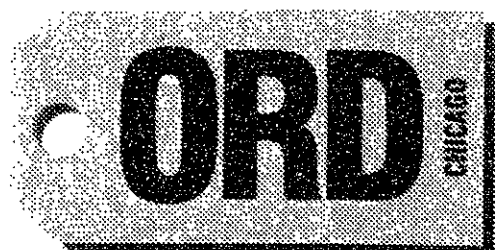
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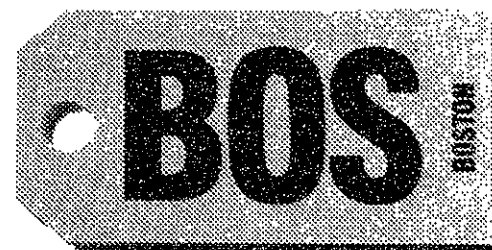
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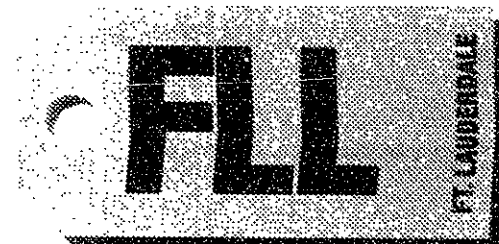
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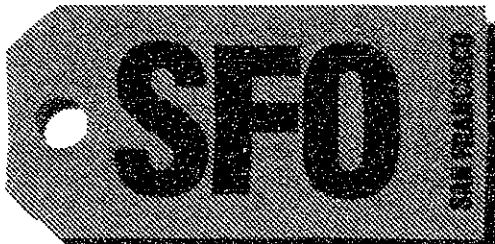
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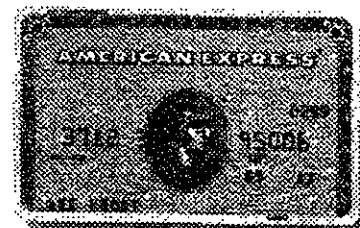
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notices

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.

Tuesday, Feb. 7

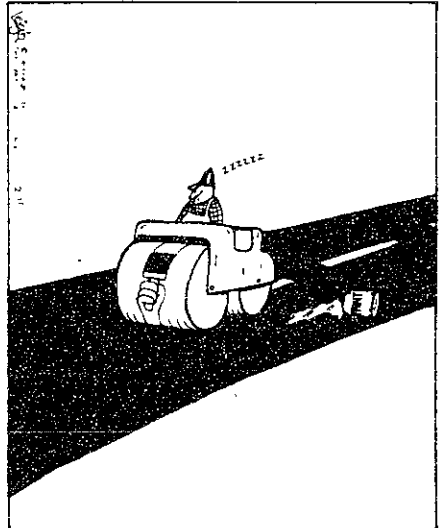
The Program in Science, Technology, and Society (STS) will hold a symposium entitled "AIDS: Long Term Prospects" to honor the memory of the late Robert Morison, M.D., on Tuesday, February 7, at 1:45pm in the Killian Room in building 14. Open to the public.

Wednesday, Feb. 8

All Course VI Sophomores interested in applying for the EE & CS Department's VI-A Internship Program are invited to the VI-A Orientation Lecture on Wednesday, February 8, at 3pm, in room 34-101.

The Cambridge Forum presents a lecture by Robert Solow, Institute Professor of MIT, on Wednesday, February 8, at 8pm at 3 Church Street in Harvard Square. Sponsored by the First Parish, the Lowell Institute, the MIT Chaplains, and the United Ministry at Harvard & Radcliffe. Free to the public.

Rubes By Leigh Rubin



Friday, Feb. 10

The MIT Environmental Design Forum and the Boston Parks and Recreation Department will sponsor a workshop entitled "Sliver Spaces: A One Day Urban Design Workshop" to generate design and policy ideas for open space in Boston's neighborhoods to be implemented in the fall of 1989. The orientation and panel discussion will be held Friday, February 10, from 5:30-7:00pm in room 10-485. The workshops will be held on Saturday, February 11, from 8:30am-6:00pm in room 10-485. For additional information contact Larry Vale in 10-489 (x3-0561).

Monday, Feb. 13

The Boston Chapter of the IEEE Society for Social Implications of Technology is sponsoring a lecture "Technical and Cultural Approaches to Risk" by Sheldon Krinsky of Tufts University at 6:15pm on Monday, February 13, in the MIT Marlar Lounge (37-252). Free to the public.

The Aga Khan Program for Islamic Architecture is sponsoring a lecture entitled "The Transformation of Islamic Architecture in Indonesia" by Hugh O'Neill of the University of Melbourne, Australia, on Monday, February 13, at 5:15pm in room 3-133.

Wednesday, Feb. 15

The MIT Japan Science and Technology Program will present a talk entitled "A Comparative Look at Japan and U.S. Space Programs," by Professor Daniel Hastings, Associate Professor in MIT's Department of Aeronautics and Astronautics, at 5:30pm on Wednesday, February 15 in room 4-153.

VI-A Student Open House will be held from 2:30-4:00pm in the Grier Room (34-401) on Wednesday, February 15 for students interested in the VI-A internship program. Refreshments will be served.

Thursday, Feb. 16

The MIT Communications Forum is sponsoring a seminar entitled "The Future of the Broadcast Networks" on Thursday, February 16, from 4:00 to 6:00pm, in the Bartos Theatre, E15-070. The speakers will be Carolyn Wall of WNYW, Fox Television Stations Inc., and William Rubens of NBC. Open to the public.

Friday, Feb. 17

Carl Bloice, Associate Editor and Moscow-based correspondent of the People's Daily World Newspaper, will give a lecture entitled "New Thinking for the Soviet Union and the World" on Friday, February 17, at 7:30pm at Tent City, 130 Dartmouth Street. Free admission.

Monday, Feb. 20

Breast reconstruction program: Beth Israel Hospital is offering a free discussion for women who would like information about the newest surgical techniques in breast reconstruction. A plastic surgeon and patients will lead a presentation and discussion on mastectomies and options for reconstruction, on Monday, February 20, at 7pm in the Grossman Conference Center at Beth Israel. Free parking and refreshments will be provided. For more information, call 735-4431.

Wednesday, Feb. 22

The Cambridge Forum presents a lecture by Martin Sherwin, Professor of History and director of the Nuclear Age History and Humanities Center at Tufts University, on Wednesday, February 22, at 8pm at 3 Church Street in Harvard Square. Sponsored by the First Parish, the Lowell Institute, the MIT Chaplains, and the United Ministry at Harvard & Radcliffe. Free to the public.

Thursday, Mar. 2

The MIT Japan Science and Technology Program will present a talk entitled "Reflections on the Physical and Intellectual Environment at Hitachi Central Research Laboratories" by Dr. Lance A. Glasser. Admission is free and open to the public. Call Kathy Schaefer at x3-2839 for more information.

Sunday, Mar. 5

The Computer Museum will present a lecture "Computer Sound Illusions: A Musical Resource for Now and the Future" by French composer Jean-Claude Risset at 3pm in the auditorium of The Computer Museum at 300 Congress Street. Lecture free with the price of admission. Call 426-2800 for more information.

Rubes By Leigh Rubin



Announcements

The Fitness Testing Program sponsored by the Sports Medicine Division of the MIT Athletic Department is offered to all students and employees of the Institute who hold a valid athletic card. Individuals over the age of 35 must obtain medical clearance from a personal physician before being allowed to participate in the program. The test consists of a submaximal aerobic ergometer test, flexibility exercises, body fat percentage, and muscular strength and endurance measurements, and takes about 40 minutes to complete. For further information call 3-4908 between 2:30 and 6:00pm, Monday-Thursday. The tests are free of charge.

Surplus equipment is available for departments and members of the MIT Community in the Equipment Exchange, building NW30, every Tuesday and Thursday from 11 to 3 pm. Thirty days after being advertised in *Tech Talk* the equipment is sold.

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 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, x3-1493.

The "Statement of Registration Status" is still required of all male students who are expected to register for the draft, if they desire to receive federal financial aid. Women, underage students and those who have completed the statement in previous years do not have to file statements.

MIT requires male students who have completed the statement by indicating they are "underage" to submit the statement annually until they have registered.

Volunteer Opportunities

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.

The Cambridge School Volunteers invites you to help us help kids learn. Your time and talents can really make a difference in a child's life. Volunteer opportunities include teaching English as a Second Language, reading stories to young children, tutoring high school students, teaching computers, and helping in the library. For more information, call 498-9218.

Do you have something to offer the public school students of Boston? Nearly all college students do, and many are now sharing their talents as S*T*A*R volunteers. School volunteers also offers internships in Publicity/Marketing, Community Organizing and Recruitment. For more information, call 451-615, or visit the School Volunteers Office at 25 West St., between the Park St. and Washington stops on the MBTA.

The Peace Corps is offering skill-training for programs utilizing the backgrounds of college graduates with mathematics and science minors. Peace Corps volunteers serve for two years. During their service they receive a generous living allowance, paid travel, training and health care. A post-service readjustment allowance of \$175 per month is paid to each volunteer. For information on Peace Corps service, call 223-7366, or write PEACE CORPS, 150 Causeway St., Room 1304, Boston, MA 02114.

The Elizabeth Peabody House of Somerville is looking for adult volunteers who are willing to share some of their time with a child who needs their special attention. If you think you can help, please call Julie Yeh at 623-5510 for additional information.

The Greater Framingham Area Veteran's Outreach Center is holding New Rap sessions for Vietnam Veterans 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.

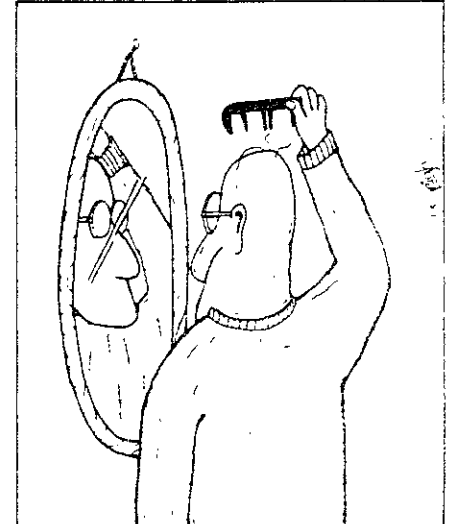
The Epilepsy Association of Greater Boston's School Alert Program is looking for individuals who have epilepsy or their family members to talk with fourth grade students and school personnel in their local community about epilepsy. For more information, please contact Gayle Daley, School Alert Coordinator,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

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. For more information, write The National Teacher's Placement Agency, Universal Teachers, Box 5231, Portland, Oregon 97208.

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.

Teach an adult to read — If you have two hours a week to spare, you can help one of Boston's 100,000 illiterate adults to read. The Adult Literacy Resource Institute is offering free tutor training. No prior experience is required — just a high school diploma and a desire to help. Contact Beth Sauerhaft, Volunteer Tutor Coordinator at 232-4695 or 734-1960 x112 for more details.

Rubes By Leigh Rubin



Free Information

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 Information Office, 14N-409 for help with anything to do with the HASS requirements. We are open 9-5. Stop by or call us at x3-4441.

The Office of Consumer Affairs and Business Regulation has prepared a pamphlet called "College Consumer" that summarizes students' consumer rights. For a free copy, write the Office of Consumer Affairs and Business, One Ashburton Place, Boston, MA 02108 or call 727-7755.

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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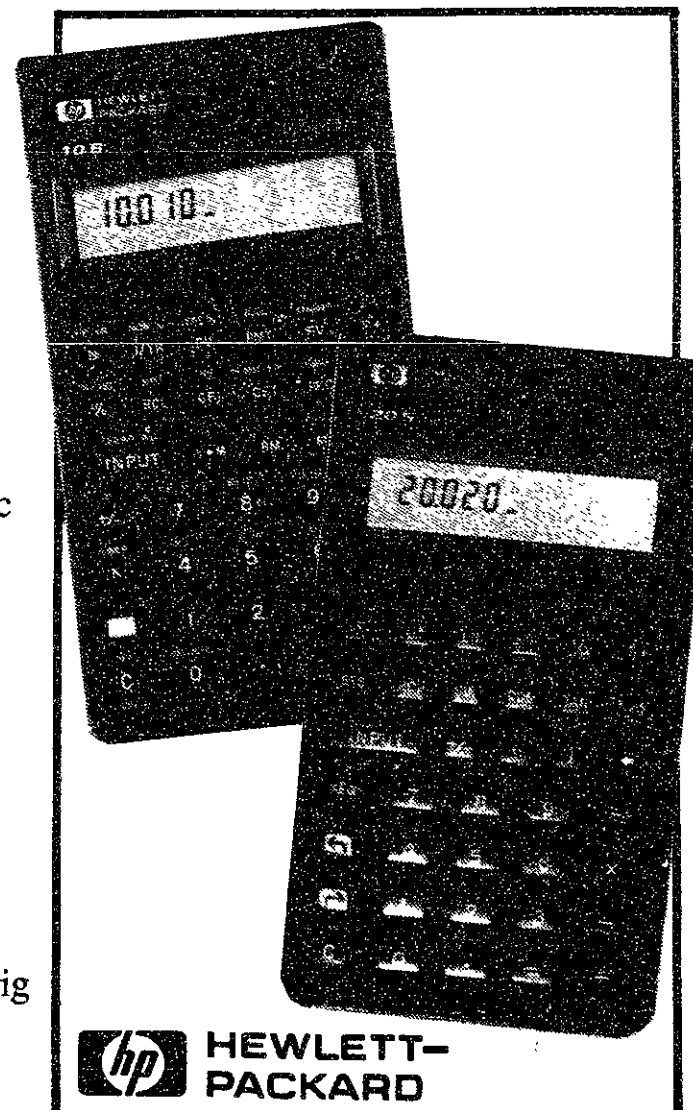
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Free Information

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 information service, provides free information about colleges, graduate schools, financial aid sources, and career opportunities. 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.

Study Help

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 through 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.

Counseling

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 am to 8 pm every day for people to come in and talk. Service is free and completely confidential. Call 247-0220.

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 Beth Israel Hospital hosts a **Support Group for Sexually-abused Teenage Girls** on Tuesdays at 4 pm for sexually abused girls between the ages of 14 and 17. For details, please call 735-4160 or 735-4540.

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.

Rubes

By Leigh Rubin



Counseling and HTLV-III blood screening services are available for individuals concerned about exposure to the virus associated with AIDS. For more information about this free confidential service sponsored by the Department of Public Health and Counseling Services, call 522-4090, weekdays from 9 am to 5 pm. Outside Boston call collect.

Parenting is a tough job. If you need help surviving the parenting experience, the **Family Support Network** and **Parents Anonymous** are co-sponsoring a support group for isolated or overwhelmed parents. Every Tuesday night from 6 pm to 8 pm at Roxbury Children's Service, 22 Elm Hill Ave., Dorchester.

The Family Support Network is also sponsoring a support group for teen parents, every Thursday night from 6 pm to 8 pm at Roxbury Children's Service.

Getting High? or Getting Desperate? If drugs are becoming a problem, call or write: **Narcotics Anonymous**, 264 Meridian St., East Boston 02128, (617) 569-0021. Local meetings held at the MIT Medical Department, E23-364, on Mondays from 1-2 pm.

The **Cambridge Dispute Settlement Center** has announced that it is making its service of mediating disputes available to roommates in the Cambridge area. Those interested in using CDSC's service to resolve a roommate dispute or any other dispute should contact the mediation center at 876-5376.

Fellowships, Scholarships, and Awards

Applications for the **1989 Coors Veterans' Memorial Scholarship Fund** are now being accepted. Applications may be obtained by calling 1-800-49COORS, or by writing Coors Veterans' Memorial Scholarship Fund, PO Box 3111, Northbrook, IL, 60065.

Rubes

By Leigh Rubin



The National Research Council announces the **1989 Resident, Cooperative, and Postdoctoral Research Associateship Program** for research in the sciences and engineering. Applications must be postmarked by January 15, 1989 (December 15 for NASA), April 15, and August 15, 1989. Initial awards will be announced in March and April. For more information, write to Associateship Program (GR430A-DI), Office of Scientific and Engineering Personnel, National Research Council, 2101 Constitution Avenue NW, Washington, DC, 20418, (202) 334-2760.

The Department of Biology is now accepting nominations for the **John Asinari Award for Undergraduate Research in the Life Sciences**. Undergraduates in Course VII, VII-A and VII-B are eligible for the award. The deadline for submissions is April 21, 1989. See Pat Turner in 56-511 (x3-4729) for more information.

Contests, Competitions

The **American Poetry Association** is sponsoring a poetry contest with \$11,000 in prizes. The Grand Prize is \$1,000 and the First Prize \$500. 152 poets will win awards and national publication. Poets, especially students, may enter the contest by sending up to six poems, each no more than 20 lines, to American Poetry Association, Dept. CT-22, 250 A Potrero Street, PO Box 1803, Santa Cruz, CA 95061-1803. Include your name and address on each page. The deadline is June 30, 1989.

The **Grolier Poetry Prize** for previously unpublished in book-form poets is now accepting submissions. Send a self-addressed stamped envelope for further information to Ellen La Forge Memorial Poetry Foundation Inc., 6 Plympton Street, Cambridge, MA 02138. The prize awards \$150 and publication.

Internships

Congressman Joseph P. Kennedy's District Office in Boston is now accepting applications for student internships for the winter term, 1988-1989. To arrange an interview, call Deborah Anderson at 565-8686 or send your name and resume to Deborah Anderson, District Representative, Office of Congressman Joseph P. Kennedy II, 1111 O'Neill Federal Building, 10 Causeway Street, Boston, MA, 02222.

Miscellaneous

A new **Pentagon Audit Project** provides detailed listings of military contracts awarded to local companies and colleges across the United States. The system can help requesters determine what weapons systems are made or based in their area, or find out whether companies in which they own stock are doing military-related work. For more information contact Paul Brink at (215) 241-7060.

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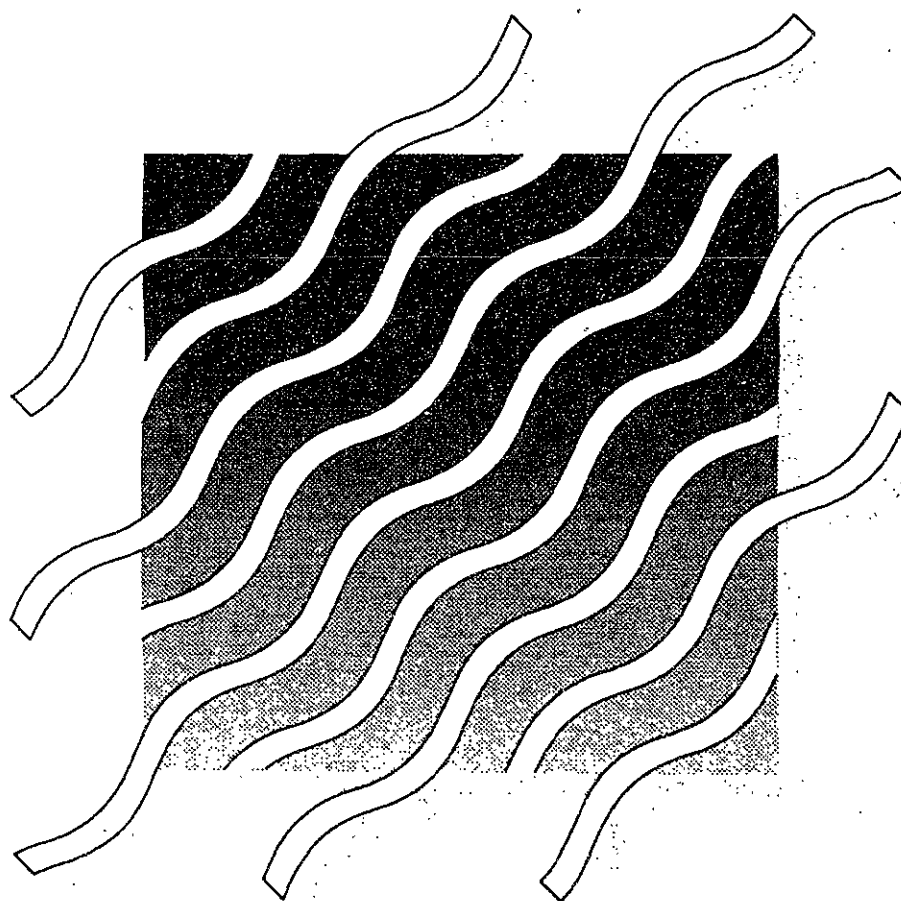
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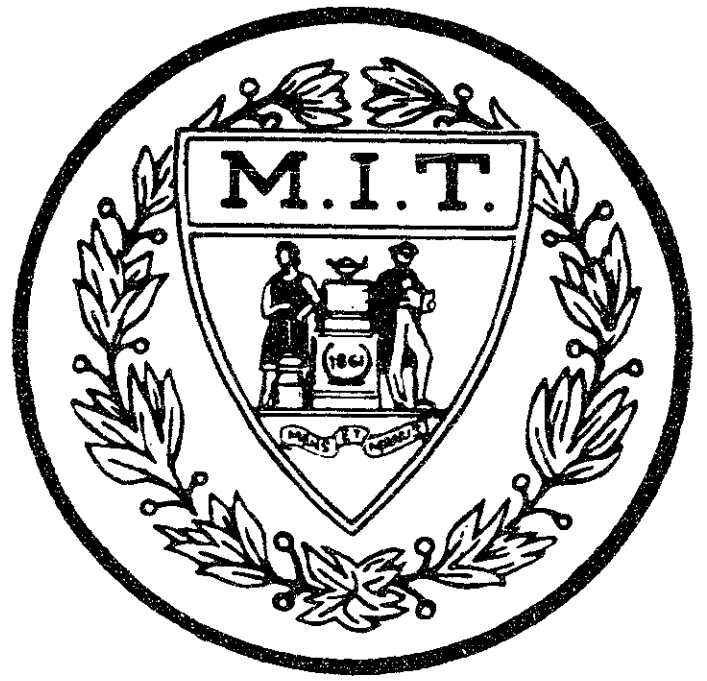
Presentation/Demonstration
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sports

Fraser sinks winner at buzzer

Sports Update

Second victory in 33 years versus Amherst

Jay Fraser '89 scored a layup at the buzzer off a deflected shot to give the men's basketball team (11-5) a 63-62 home victory over Amherst College (11-4).

Amherst led at the half 33-30, but with 10 seconds left to play, the score was tied at 61. Trae Shattuck '90 was called for a foul diving for a loose ball under the MIT basket. The Amherst center made his first shot, but missed the second, leaving the score 61-62. Dave Dellagrotte '90 then brought the ball down court and spotted Shattuck. Shattuck's shot, however, was blocked, but Fraser was able to put the rebound in at the buzzer.

Saturday's game was only the second time since the 1955-56 season that the Engineers have defeated Amherst, a team they meet every season. The 11 victories for the Engineers matches their total for last year, and is the most since 1980-81, when they won 13 games.

Fraser led all scorers with 18. This was MIT's second win in a row after breaking an eight game winning streak last weekend.

Shwartz remains undefeated at 142 lbs.

Scott Shwartz won the 142-pound weight class at the Northern New England Wrestling Tournament at Plymouth State. Shwartz has not lost this season, in either a dual meet or a tournament.

Two MIT gymnasts honored by ECAC

Although Salem State College edged past the men's gymnastics team 164.4-161.0 at Salem State last Saturday, Eric Reifschneider '89 was named the Eastern College Athletic Conference male gymnast of the week for his performance. Lisa Arel '92 was also named ECAC female gymnast of the week. It was the second time Arel was honored, and the first time for Reifschneider — no other MIT gymnast has ever received the award.

ECAC also honors basketball player

Center/Forward Maureen Fahey '90 was also recognized by the ECAC, named to the women's basketball honor roll for her performance last week. Fahey averaged 24 points and 15 rebounds in the Engineers' two losses. This was the second time this season she received the honor.

Fencers take two

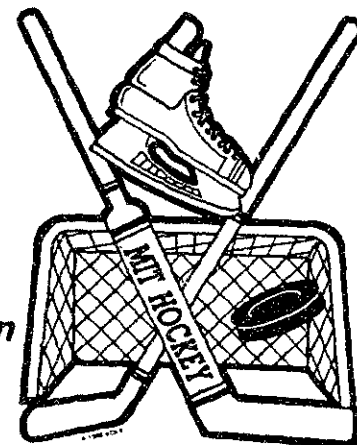
The men's fencing team defeated Brown 18-9 last Saturday in a tournament at Brandeis University. At the same tournament, the women beat Brandeis 13-3, and lost to Brown 9-7. MIT hosts a six team tournament this Saturday, beginning at 9 am.

Bowdoin edges MIT in women's hockey

Bowdoin skated past the MIT women's hockey game by a score of 3-2 at the Johnson Athletic Center last Saturday. The Beavers are next scheduled to play at Boston College Friday evening.

Compiled by Michael J. Garrison
Harold A. Stern
and the Sports Information Office

Tech Sports



Looking for more than
just an activity?
Try a tradition.

A look back.

Sixth in a series.

Thinking about your education.

In this series we have discussed topics that are at the heart of the educational process. Your awareness of them and your conscious application of them during your education can aid you in getting the most out of your years in school.

Here is a summary of the main points of each essay.

The purpose of education.

"...alumni records show that it is likely for many of us to work in multiple fields or to change fields entirely.

The ability to do excellent work in a range of fields and to meet diverse challenges with clear, bold thinking and creative solutions are the hallmarks of a good education.

The skills we learn are an acute ability to observe all aspects of a problem, to integrate a wide range of knowledge, to analyze in depth, to obtain insight, to find creative solutions, and to rigorously test the solutions."

Pressure, confidence and self-esteem.

"Pressure to excel is inherent in any institution that strives to be the best of its kind.

There is a temptation to suggest changes to reduce this pressure: a lighter course load, easier grading, easier courses, less homework, etc.

Experience teaches us that in the long run confidence and self-esteem cannot come from reducing the challenges we face.

When we face the challenges of solving real and difficult problems; when we solve problems others have attempted and have not solved; when we break ground with new knowledge; when we see our own solutions tested by reality and found satisfactory, then we acquire confidence and self-esteem. There simply is no other way. And recognition, when it comes, is fully deserved."

The foundations of creativity.

"The principle obstacle to achieving creative breakthroughs is a premature conclusion that a better solution is not possible.

To overcome this obstacle we need to add to our basic thinking skills and technical foundation the following elements of attitude:

1. A strong desire for a creative breakthrough.
2. Confidence in our ability.
3. An expectation that many false starts may be necessary.
4. Sufficient immersion in the problem to engage all our faculties.
5. A willingness to pursue solutions until a breakthrough is achieved.
6. Analysis of each attempt to aid in the development of insight."

Developing your thought process.

"As students of science and engineering you have an excellent opportunity to develop your thought process by working on problems whose correct analysis yields a unique answer.

Searching for the correct solution causes you to rethink the problem until comprehension develops and you get the right answer.

The homework problems you solve often involve fundamental concepts that are applicable in areas far removed from the original area of study. To further your understanding of these concepts simply ask yourself what are the basic concepts of the problem and write them down in a few words.

Another useful exercise in the development of your thought process is to explain the concepts to another student. This process provides feedback and reactions to confirm or challenge your understanding.

In summary, work on problems that have verifiable answers, articulate the central concepts in a few words, then try to explain (teach) the concepts. This will substantially increase your ability to derive the full benefit from your education."

For the full text of this series write Bose Foundation, The Mountain, Framingham, MA 01701-9168.

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Note: Please see an announcement in this issue concerning the Bose Foundation Graduate Fellowship in Electrical Engineering.



Eyes on the hoop, Susan Ward '92 fights off her Wheaton opponent to shoot the ball. The MIT women suffered a defeat to Wheaton in the Thursday game.

Michael Franklin/The Tech

sports

NCAA rules change will ban tees on FGs, PATs

By Harold A. Stern

The National Collegiate Athletic Association Football Rules Committee voted at its annual meeting last month to prohibit the use of kicking tees on extra points and field goals, according to *The NCAA News*. The rule will apply to all levels of intercollegiate play, and is scheduled to take effect next season.

The change was effected to try to reduce scoring in college football. Scoring has significantly increased in college football over the years, from an average of 32 points a game in 1958 to 46 points a game in 1987, *The NCAA News* reported.

"The major factor in that scoring increase has been the increase in field goals and successful point-after-touchdown attempts," said David Nelson, secretary-rules editor of the committee in *The NCAA News*.

"The average number of field goals has increased from .18 a game to a record 2.30 in 1984. Successful PAT attempts have increased from 68 percent in 1958 to 95.6 percent in 1987," he explained.

Mike Ahrens '91, a defensive lineman for the Beavers who doubles as the team's placekicker, thought that the rule change "could matter a lot." He used a two-inch block last season to connect on 13 of 17 extra points in MIT's seven games.

"I could have a tough time getting under the ball" without the

tee, he explained.

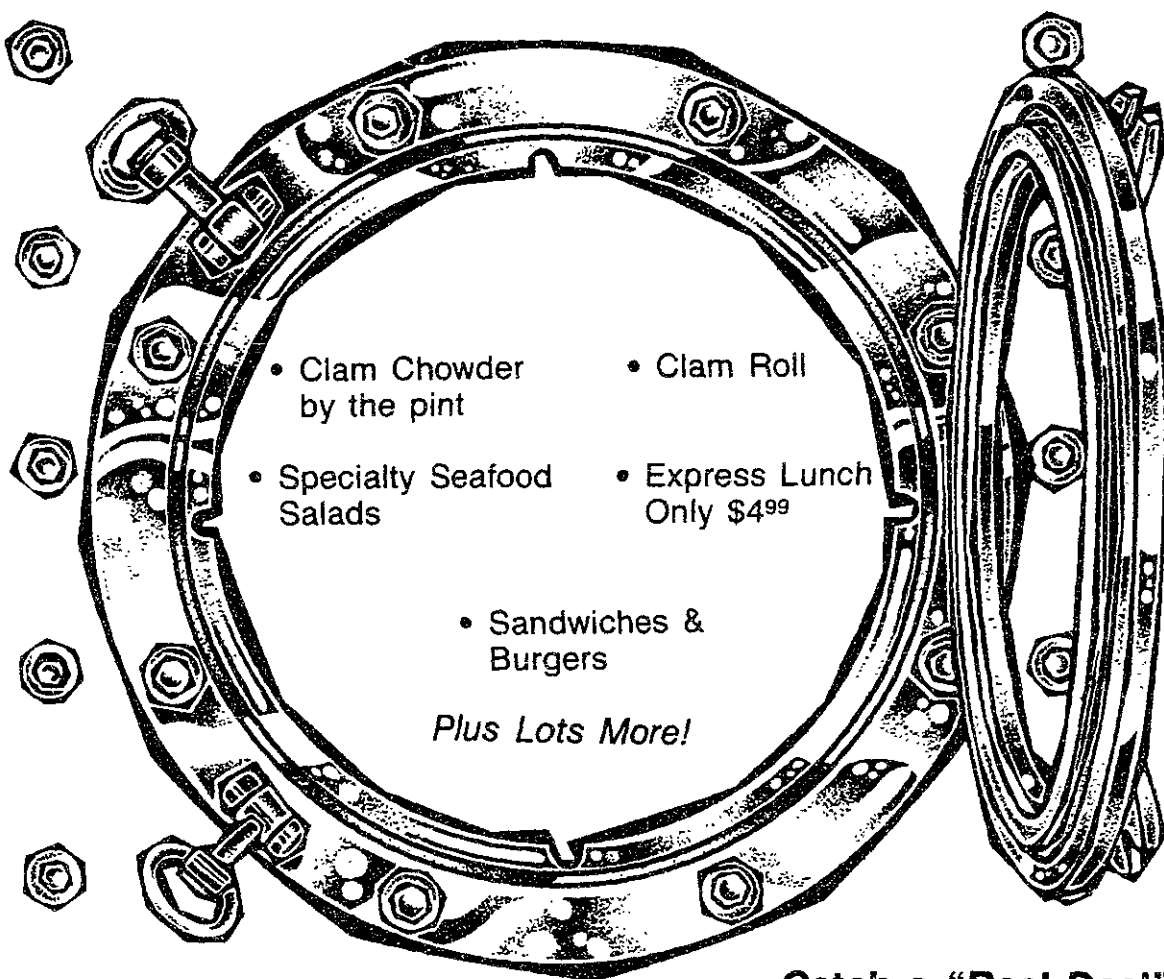
But regulations which hinder placekickers might help MIT, since the other teams in the New England Collegiate Football Conference have experienced more success kicking the ball than the Beavers. Opposition placekickers outscored Ahrens last season, 27 points to 13. MIT attempted only one field goal (the kick failed), while opponents connected on a perfect five of five, including Mike Choniere's 24-yarder that won a 17-14 game for Assumption College. MIT did have slightly more success on extra points than the opposition, which scored only 12 points on PATs.

The new rule could have a second beneficial effect on the Beavers' performance if it results in more attempts at two-point conversions. If past performance holds up, the change would increase — rather than decrease — the number of points scored by MIT. The Beavers had plenty of success going for the two-point conversion after touchdowns. Shane LaHousse '90 was a perfect 3-for-3 carrying the ball on extra points. Only Bentley College attempted any two-point conversions against MIT, succeeding once out of two tries.

The committee also voted to increase the penalty imposed on home teams when crowd noise prevents the offense from putting the ball in play, another rule change which should not hurt Beaver football.

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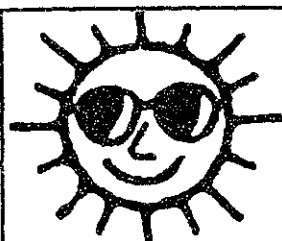
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Completed applications must be submitted by 5:00 p.m., Friday, February 10, 1989.

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The Coop's Board of Directors has a total of 23 members, 11 of whom are students from M.I.T. and Harvard, 11 are members of the faculty and staff or alumni of M.I.T. and Harvard, and the president of the Society. The Board oversees the operation of The Coop, a seven store college bookstore cooperative, and sets policy for The Coop's operation. The Board meets monthly during the academic year.

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sports

Track team loses leading scorer to hamstring pull

(Continued from page 36)

of jostling that went on in the race as runners jockeyed for position, Piepergerdes found himself in the middle of the pack in the early part of the race.

But by the bell lap, Piepergerdes had moved up and was challenging BC freshman Jamal Prince for third place. Prince held on to beat Piepergerdes by about two seconds.

Scannell jumped a personal-best 22'9 3/4" on Friday to take third in the long jump, and followed that Saturday with a 44'3 3/4" triple jump, good for fourth place. Scannell missed third by an agonizing 1/4".

Two seniors were upset in what are usually their strong events, but both came back to run solid legs on relays.

Co-captain Kyle Robinson '89 went out hard in the 1000 meters, and led for several laps before falling behind. He finished in 2:45.41, well off his personal best.

Eugene Tung '89 also led all runners in his race, the 5000 meters, on Friday evening, but Tung faded in the second half of the race. Sean Kelley '89 placed fifth in the 5000 at 14:51.27, a personal record.

Robinson came back for the 4x880-yard relay with a strong leg, joining Patrick Cazeau '92, Piepergerdes and Joe Kowalski '90. The relay finished fourth in 8:16.20.

Tom Washington, who earlier this season set a freshman high jump record, faced stiff competition Saturday from the likes of BC's Ken Moody, a seven-foot jumper. Washington placed fourth with a leap of 6'6".

MIT's distance medley relay did not finish among the top five DMR teams, but the foursome of Nate Getrich '91 (1/2 mile), Tim Alosi '90 (1/4 mile), Kelly (3/4 mile), and Tung (mile) put in a solid effort to finish in 10:35.41.

Freshman Garrett Moose competed in the pentathlon Friday, finishing a solid fourth.

MIT travels to Bowdoin Saturday for its final regular-season meet.

The New England Division III Championships are a week from Saturday, and Kelly anticipates a strong performance from his team.

None of the Division III schools at the championships will

be of the caliber of the Division I schools MIT faced at the GBC, Kelly said. Kelly had expected a stronger performance by Northeastern, but said that "Harvard always has talent, no doubt about it."

Indoor Track at Greater Boston Championships

55 meter dash — 1, Horner, Harvard, 6.45; 2, Clark, BC, 6.47; 3, Stokes, BU, 6.54.

55 meter hurdles — 1, Rios, Harvard, 7.91; 2, Lee, Brandeis, 7.94; 3, McKenzie, MIT, 7.99; 4, Moon, MIT, 8.19.

200 meters — 1, Horner, Harvard, 22.09; 2, Swenson, BC, 22.38; 3, Dronney, Brandeis, 22.78; 5, McKenzie, MIT, 23.47.

400 meters — 1, Dunzo, MIT, 49.92; 2, Bryan, BU, 49.94; 3, MacLeod, NU, 50.02.

500 meters — 1, Lewis, BU, 1:04.22; 2, Patrizio, Harvard, 1:05.26; 3, Rowe, Harvard, 1:05.65.

800 meters — 1, Dugan, BC, 1:52.25; 2, Rahe, Harvard, 1:52.71; 3, Forde, Brandeis, 1:54.49.

1000 meters — 1, Gomes, NU, 2:28.22; 2, Oakes, Harvard, 2:29.44; 3, Adams, BU, 2:30.53.

1 mile — 1, Schlapak, NU, 4:11.7; 2, Black, NU, 4:12.0; 3, Prince, BC, 4:15.1; 4, Piepergerdes, MIT, 4:15.7.

3000 meters — 1, Grant, BC, 8:19.25; 2, Bianchi, NU, 8:20.36; 3, Harte, Harvard, 8:28.00.

5000 meters — 1, Cann, Harvard, 14:26.40; 2, Pieroni, BC, 14:31.04; 3, Fitzpatrick, BC, 14:36.39; 5, Kelley, MIT, 14:51.27.

Pole vault — 1, Cranmer, BU, 14'-0"; 2, Herbst, Harvard, 13'-6"; 3, McNally, NU, 13'-0".

High jump — 1, Moody, BC, 7'-0"; 2, Hirsh, BU, 6'-10"; 3, Sullivan, Harvard, 6'-6"; 4, Washington, MIT, 6'-6".

Long jump — 1, Horner, Harvard, 23'-5 3/4"; 2, Moody, BC, 23'-3"; 3, Scannell, MIT, 22'-9 3/4".

Triple jump — 1, Moody, BC, 47'-8 3/4"; 2, Muse, NU, 46'-5 3/4"; 3, Walker, BU, 44'-4"; 4, Scannell, MIT, 44'-3 3/4".

Weight throw — 1, Deering, MIT, 59'-2 3/4"; 2, Brzezinski, Harvard, 54'-0"; 3, Halvorsen, NU, 53'-2".

Shot put — 1, Kuras, NU, 49'-6"; 2, Nerden, NU, 48'-9"; 3, Marcell, BU, 48'-7"; 5, Deering, MIT, 48'-3".

Pentathlon — 1, LaVigne, Harvard, 3,330; 2, Wareham, NU, 3,247; 3, Sullivan, Harvard, 3,207; 4, Moose, MIT.

4x440 relay — 1, BU, 3:20.25; 2, Harvard, 3:20.86; 3, MIT (Scannell, McKenzie, Roshd, Dunzo), 3:21.70.

4x880 relay — 1, NU, 7:52.27; 2, Harvard, 7:53.77; 3, Tufts, 8:05.45; 4, MIT (Cazeau, Robinson, Piepergerdes, Kowalski), 8:16.20.

Distance Medley Relay — 1, BC, 10:11.36; 2, Harvard, 10:19.01; 3, Brandeis, 10:32.23.

Harvard 94, NU 64, BC 60, BU 38.5, MIT 38, Brandeis 21, Tufts 5.5.

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If this interests you, we invite you to attend our Company presentation on Thursday, February 9th from 7:00-9:00 pm in Room 4-149. Come by and enjoy some light refreshment and learn more about Vitesse. In addition, please register to interview on Friday, February 10th with a Vitesse representative.

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Announcing Two New Classes:

24.205 Wittgenstein: MW 1:00-2:30 Rm 38-136

An introduction to some of the main themes in the early and late work of Wittgenstein: the picture theory, the austere atomism, and the elimination of philosophy in the *Tractatus*; the inquiry into rules, meaning, criteria, sensations and mental states generally in the *Philosophical Investigations* and other posthumous writings. Given the peculiarity of Wittgenstein's presentation, there will be considerable reliance on such secondary authors as Mounce, Kripke, and others included in standard anthologies, as well as upon other recent philosophers who can be regarded as developing or criticizing later Wittgensteinian suggestions, such as Berge, Putnam, Fodor. There will be a mid-term, final, and a term paper, submitted twice, the second responding to criticisms on the first.

24.125 Persons: TR 12:00-1:30 Rm 26-204

The concept of a person plays a significant role in our moral lives, structuring the concerns many of us have towards our own lives and the lives of others, including the mentally impaired, infants, fetuses, animals, possibly some machines. In this course I want to consider some of the moral demands we seem to make of this concept, in regard particularly to personal identity, consciousness, and freedom of the will, turning then to the question of whether there is anything in the world that could possibly satisfy those demands. I am particularly interested in the bearing of computational models of the mind upon these questions. Readings will include Kant, Rawls, Dworkin, Hume, Parfit, van Inwagen, Dennett. There will be a mid-term, final, and a term paper, submitted twice responding to criticisms on the first.

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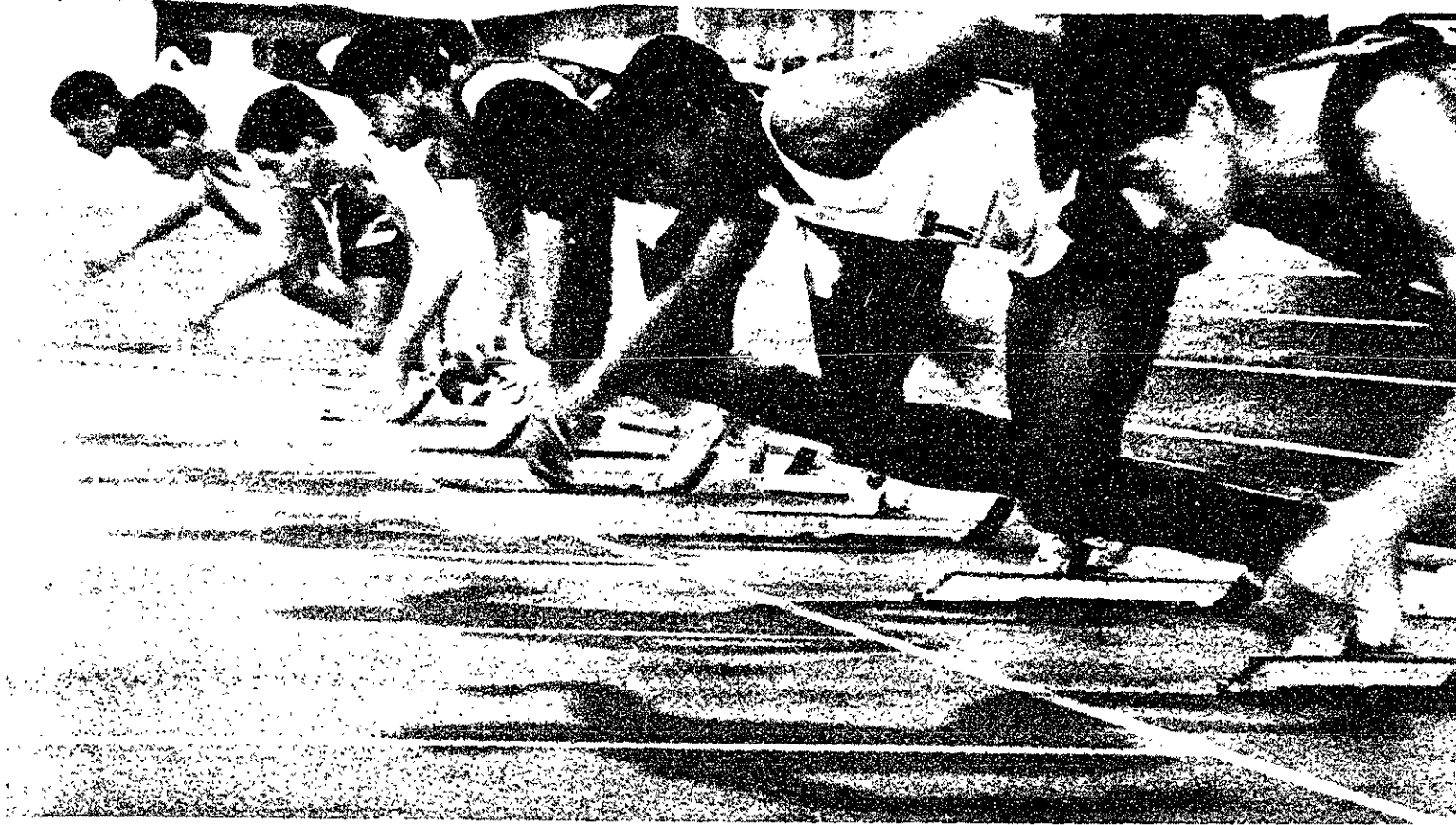
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MIT Afternoon at the Greater Boston Championships

February 4, 1989



Despite losing leading scorer Bill Singhose '90 (below, shown with vaulter Murphey Johnson '89) to an injury, the indoor track and field team still managed to score the most points, 38, it had ever scored at the annual Greater Boston Championships, held at Harvard University Friday and Saturday.

At left is the start of the 55-meter high hurdles, in which Paul McKenzie '90 (second from right) placed third, and Dean Moon '92 (third from left) placed fourth.

The Engineers' two first-place winners were Mark Dunzo '91 (center left), who won the 400-meter dash, and co-captain Scott Deering '89 (center middle, shown in the shot put competition), who won the 35-pound weight throw.

Mike Piepergerdes '92 (bottom right) placed fourth in the mile run.

At bottom left is head coach Gordon Kelly, consulting with a meet official.



photos by
david h. rothstein



sports

Track places fifth at GBC

By David Rothstein

Last weekend the indoor track and field team went up against Boston's best at the Greater Boston Championships at Harvard University. Facing Division I schools like Harvard University, Northeastern University and Boston College, MIT was not expected to finish high among the seven teams competing, much less win the GBC outright.

MIT Afternoon at the Greater Boston Championships: a photo essay. See page 35.

No, MIT did not engineer a great upset. It finished fifth, with 38 points, just missing fourth place to Boston University, which had 38½.

Harvard won both the men's (94 points) and women's titles by comfortable margins.

Despite its several impressive performances Friday evening and Saturday in Harvard's Albert H. Gordon Track and Tennis Center, MIT's mood at the end of the championships was subdued. Scoring more points than it had ever scored at the GBC, and tak-

ing home two first-place victories, in the 400-meter dash, and in the 35-pound weight throw, could not fully replace the hollow feeling of a battle lost by half a point.

Nor would the points and the wins replace leading scorer Bill Singhose '90, who injured his right hamstring while competing in the long jump Friday night, and may be out for as long as four weeks. Singhose, who competes in the pole vault, high, triple, and long jumps, and has run on the mile relay, was nearing full recovery from an injury to his left hamstring when his right one gave out after undergoing the combined stress of long jumping and running in the 200-meter semifinal.

Singhose still managed to place fifth in the long jump with a leap of 22 feet, 4¾ inches.

Head coach Gordon Kelly said that without Singhose, the team will have a heavier load on its shoulders when it competes in the New England Division III Championships, held Feb. 18 at the Coast Guard Academy in New London, CT.

"Before we had a cushion [in Singhose]," he said, "but now we just can't have a bad day."

Those whom Kelly will be counting on most will include the runners and field men who competed this weekend.

Co-captains Scott Deering '89 and Mark Dunzo '91 led the Engineers with first-place finishes in the 35-pound weight throw and the 400 meters, respectively.

Deering threw 59'2" to win the weight throw by more than five feet over the second-place finisher. It was an impressive win for the man who has qualified for the National Collegiate Athletic Association Division III Championships in the weight throw every year since he was a freshman. Deering also placed fifth in the shot put at 48'3".

Dunzo's win was equally fine, as he led the field of six runners from start to finish, holding off BU's Horace Bryan by two-hundredths of a second to finish in 49.92. Dunzo bettered his personal best indoor time by .96 seconds on the fast Harvard track, which is banked, unlike MIT's level track in the Johnson Athletic Center.

Dunzo would anchor MIT's third-place mile-relay team to a time of 3:21.70 showing at afternoon's end, joining Kevin Scannell '92, Paul McKenzie '90, and Karim Roshd '89.

McKenzie also had a good day on the track, placing third in the 55-meter high hurdles (7.99) and fifth in the 200-meter dash (23.47). McKenzie was joined in the hurdles by freshman Dean Moon, who took fourth in 8.19. To Kelly, having two competitors in the hurdles final was a "real pleasant surprise."

John-Paul Clarke '91 came on strong in the weight throw competition Friday night, placing fifth with a throw of 52'2". That may also qualify Clarke for the Division III Championships, held Feb. 10 and 11 at Bowdoin College. The top 11 weight men in the country will compete.

Deering has already assured himself a spot at the national championship, as has Singhose, in the pole vault.

One of the day's more competitive events came in Section I of the men's mile run. MIT's entry was freshman Mike Piepergerdes, who placed fourth in 4:15.7. Surprised, perhaps, by the amount

(Please turn to page 34)



Mike Niles/The Tech

Alan Peyrat '92 (left) and Allen Downey '89 (right) watch as Ferris Ritti '92 bumps the ball.

Men's volleyball beats Dartmouth, loses to RW

By David Rothstein

Strong defense propelled the men's volleyball team to an easy, 15-11, 15-7, 15-7 win over Dartmouth College at DuPont Gymnasium Saturday afternoon. The contest was a rematch of the team's season-opening match, played at Dartmouth's Hanover campus, which MIT also won.

The Engineers are now 2-1, after losing to Roger Williams College Thursday in Bristol, RI.

MIT played Dartmouth without senior outside hitter Edwin Marin, who is recovering from a severe ankle sprain which he suffered in a pre-season scrimmage, and without middle hitter Roland Rocafort '90. But Chris White '90, who had been out for two weeks with the flu, was able to play Saturday.

Coach Karyn Altman credited White with making a significant contribution to the team's win

with his defensive play, and also commended setter Charles Lee '89 and middle hitter Allen Downey '89.

While Altman was pleased with her team's play and high energy level on Saturday, Thursday's match at Roger Williams was a different story.

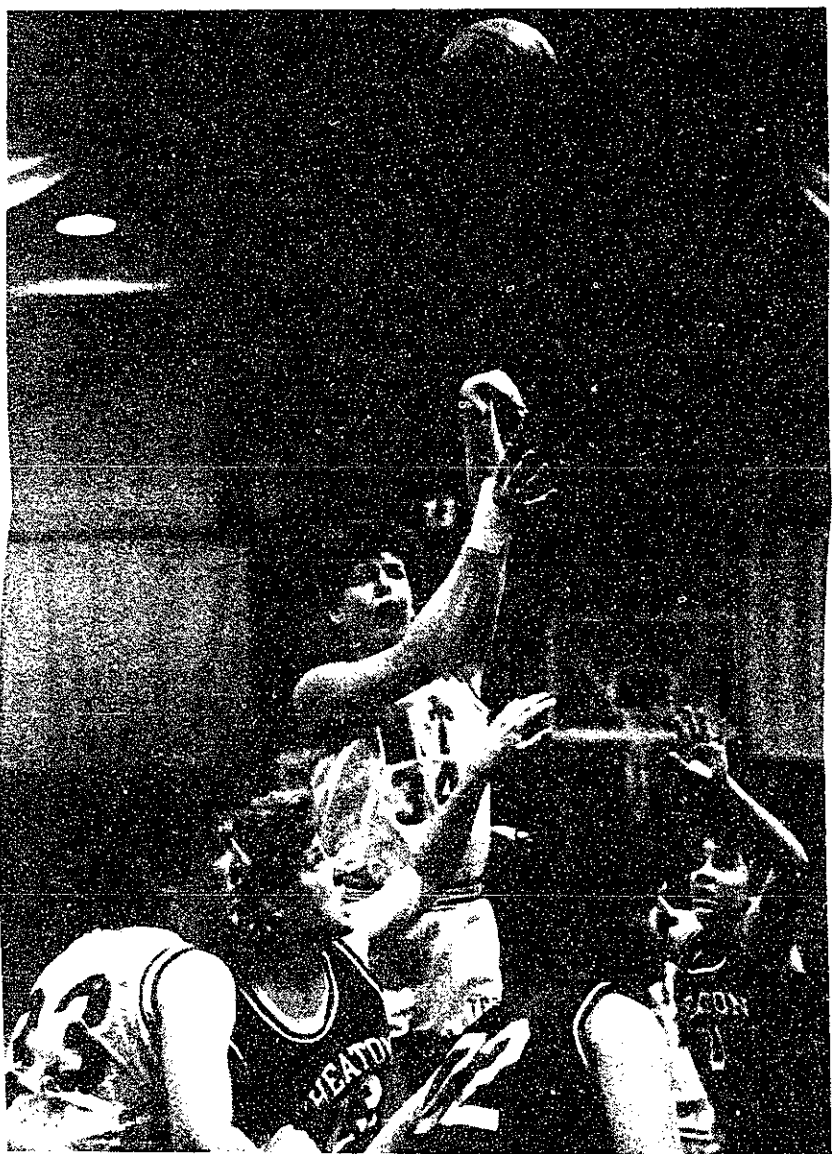
"We didn't play with any energy against Roger Williams," said Altman, noting that the team made a lot of mistakes.

"Roger Williams was a bad loss for us," she said.

MIT was plagued by poor serving, with 14 service errors against two aces, and poor hitting.

The Engineers next take on Harvard University at Harvard on Saturday at 1 pm. Marin is expected to play in the Harvard match.

(Editor's note: David Rothstein '91 is a member of the men's volleyball team.)



Michael Franklin/The Tech

Maureen Fahey '90 catches Wheaton player off guard to score a shot over her rivals in Thursday's game.

Upcoming Home Events

Tuesday, February 7

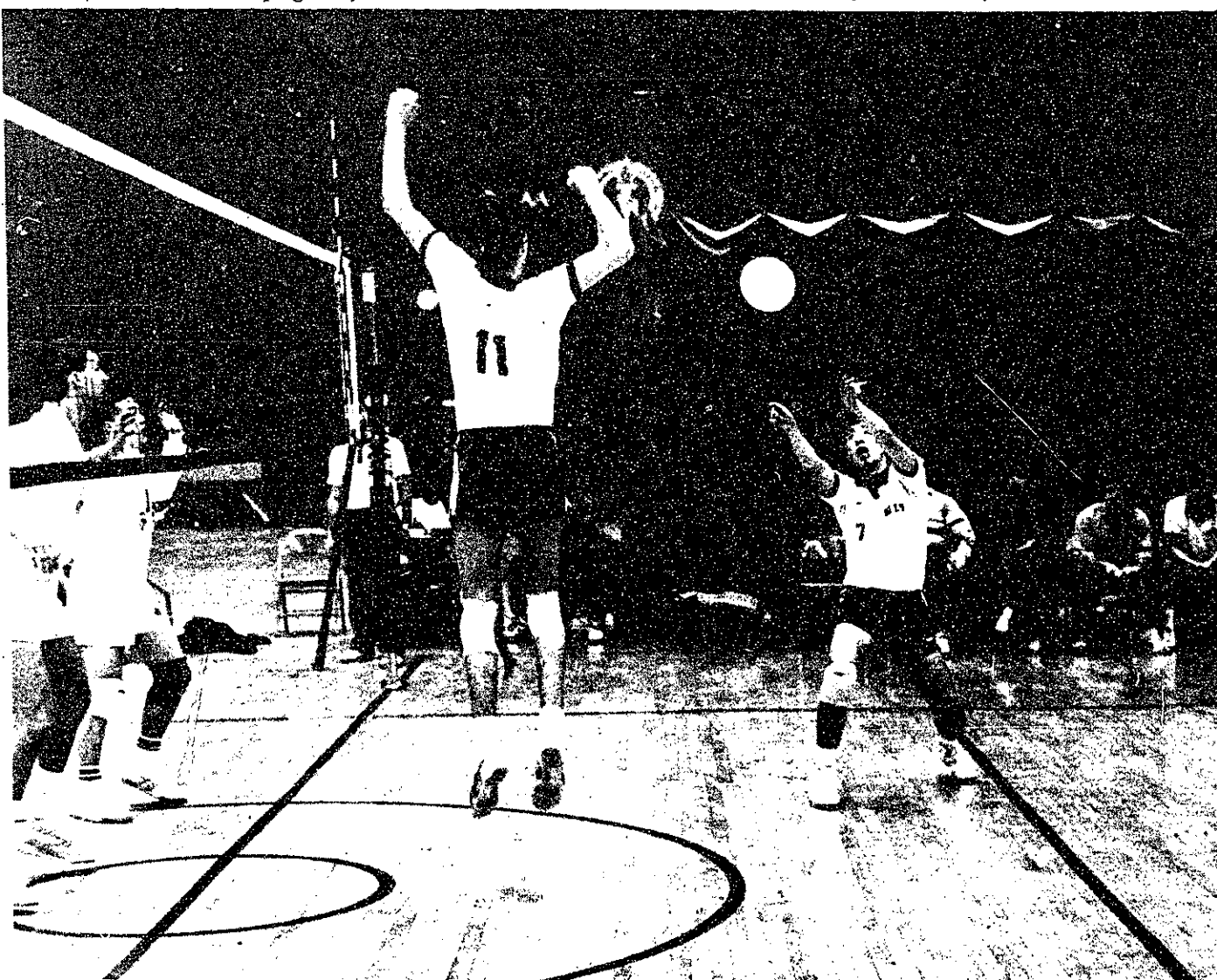
8:00 Men's Hockey v. Suffolk University

Thursday, February 9

7:30 Men's Basketball v. Connecticut

Saturday, February 11

9 am Fencing v. Brandeis, North Carolina, Navy, Temple, & Stevens Tech
1:00 Men's Gymnastics v. UMass
1:00 Women's Swimming v. Amherst
2:00 Men's Hockey v. Springfield
4:00 Men's Swimming v. Amherst
4:00 Squash Invitational



Mike Niles/The Tech

Setter Charles Lee '89 sends the ball to Allen Downey '89 for the spike.