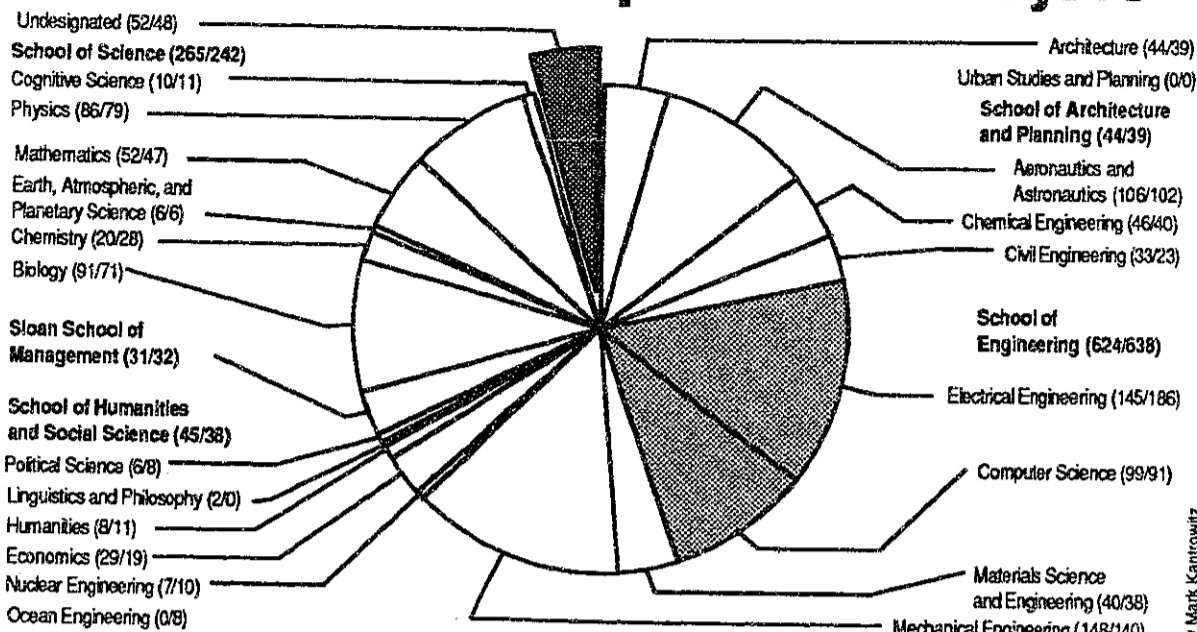


Breakdown of sophomore majors



This is the official fifth-week count of declared sophomore majors provided by the Registrar's Office. Numbers after the slash are the numbers of sophomores in the department or school last year. There are a total of 1062 sophomores this year; there were 1037 last year.

Tech graphic by Mark Kantrowitz

Enrollment in EECS reaches ten-year low

By Gaurav Rewari

Two hundred and forty-five sophomores (23 percent of the class) have declared majors in the Department of Electrical Engineering and Computer Science, the lowest number of Course VI sophomores in over ten years, according to figures supplied by the Registrar's Office. This number is a drop of 33 students from last year and 84 from the year before.

The "fifth-week count" of the Class of 1992 showed a slight decline (14) in the number of sophomores in the School of Engineering and a larger increase (23) in the number who declared majors in the School of Science. The other schools posted smaller differentials.

The 145 declared electrical engineering majors represent a 21.5 percent decrease from last year's 186 sophomores who chose the field. Ninety-nine members of the Class of 1991 declared computer science, an increase of eight from last year. Total undergraduate enrollment in the department currently stands at 850.

Enrollment in EECS had steadied at about 200 students per year between 1947 and 1976. However, after 1976, sophomore enrollment continued to rise steadily till it peaked in 1983 when 380 sophomores entered the department.

In light of this overcrowding, the now defunct Committee on

Educational Policy proposed restricting the choice of majors to some admitted students in 1984. CEP proposed benchmarks of 350 for 1984, 310 for 1985, and 270 for 1986 and every year thereafter.

Some of the other steps taken to ease this overcrowding included the formation of the physics with electrical engineering (8-A) and the Mathematics with Computer Science (18-C) options that attracted 24 and 10 students respectively this year. Also since 1984, transfer students have not been permitted to major in the department.

The fifth week figures also showed a decline in the number of majors throughout the School of Engineering. With the declines in electrical engineering, the section has three fewer sophomores than mechanical engineering, which showed no change since last year.

Biology attracts many; modest changes in HASS.

The Department of Biology attracted 20 more students than last year. Graham Walker, undergraduate officer in Biology, attributed some of the increase to students who would have originally majored in VII-B, the applied biology option that no longer exists.

Walker was not sure whether (Please turn to page 21)

Many ODSA goals from 1983 have not been met

By Linda D'Angelo

Five years ago former Associate Dean of Student Affairs Robert Sherwood committed to paper a five-year plan, including ten "high priority" goals. Much of the plan, with goals ranging from the "construction of additional graduate housing" to the "integration of our black fraternity and sorority into the IFC system," is far from being realized today.

Some of Sherwood's reorganization plans have been accomplished. The operational and program responsibilities of the West Campus Plaza and Walker have been merged, and the Office of the Dean for Student Affairs has been reorganized "to include the Office of Minority Education and the MIT/Wellesley Exchange Office" and "report to the Provost," as Sherwood proposed. But the Career and Placement Planning Office has not been incorporated, as he suggested.

Sherwood wanted to satisfy the "50 percent demand of graduate students for on-campus housing" as well as create a "fraternity row on MIT's campus" to move independent living groups from Boston. Neither of these goals are close to realization, with the construction of some additional graduate housing just underway.

Alpha Kappa Alpha and Alpha Phi Alpha, the black sorority and fraternity at MIT, have not been incorporated into the IFC system, as Sherwood recommended. (Please turn to page 2)



Lisette W. M. Lambregts/The Tech

South Korean Political Councilor Pae-ik Chung discusses the state of democracy in his country.

1988 Coop rebate is 7.8 percent

By Sophia Wang

The annual Coop patronage rebate for the 1987-88 fiscal year is 7.8 percent, James A. Argeros, president of the Coop, announced recently. This represents a significant drop from last year's rebate of 9.5 percent.

The low rebate was due primarily to changing buying habits of the Boston community, said Darian Hendricks '89, MIT student member on the Coop Board of Directors. "You have to remember that the rebate comes from member and non-member purchases," Hendricks said.

According to the Annual Report of the Harvard Cooperative Society, the net earnings of the six Coop stores for 1987 were \$968,180. But in 1988 earnings amounted to only \$519,142.

Hendricks stressed though that the lower rebate percentage was not due to poor sales for the Coop. He noted that the entire retailing business went through a slow period in 1987-88.

Another factor influencing the low rebate was the labor shortage which affected the entire Boston area, Hendricks said. Due to Boston's low unemployment rate, local businesses had to advertise starting salaries of close to six dollars an hour, he added. This competition was reflected with labor expenses totaling \$8,186,245 in 1987 and \$8,515,874 in 1988, the report noted.

Keeping workers on the job for extended periods of time is also difficult for the Coop, Hendricks said. Recently, different incentives have been offered to workers who stay on the job for longer than one month, he added. This further adds to the operating costs of the Coop.

A final factor, Hendricks noted, was the startup expenses of the new MIT Coop at Kendall Square which opened in May 1987. He felt that this was not a significant factor in the rebate decrease, but conceded that if the Coop had been opened under better labor conditions, the situation may have been different.

"I am not sure if the board, when it was planning the new Coop, could have predicted the current labor situation in Boston," Hendricks said.

Members have become accustomed to having rebates close to nine to ten percent in recent years, thus when the lower rate was announced it took many by

surprise, Hendricks said. "You have to remember that just a few years ago the rebate was around 7.8 percent," he added.

Hendricks felt that current student concern over the lower rebate is a good thing. "Students have a right to know what goes on, since they, as members, are stockholders," he said.



Mike P. Niles/The Tech

The 1.7 percent drop in the Coop's annual rebate is due to lower earnings.

Colloquium probes issue of world democracy

By Niraj S. Desai

Today the world is witnessing a dramatic upsurge in democratic governments and respect for democratic values, declared Political Councilor Pae-ik Chung of the South Korea's embassy to the United States. Chung spoke at a colloquium on "The State of Democracy in 1988" sponsored by the MIT Republican Club last Wednesday night.

The colloquium brought together representatives of five nations which are in varying stages of democratic development. Besides Chung, the panelists included officials from Pakistan, Chile, Israel, and Canada.

While acknowledging that South Korea had traveled a rocky road to democracy, Chung asserted that democratic values had become firmly entrenched. "Those outside the mainstream in Korea will join the majority in building democracy." Chung cited popular support for the Seoul Olympics as an example of the people's new respect for the government.

Moreover, South Korea's recent move toward reconciliation with the North are a sign of the "confidence of a government with legitimacy" invested in it by democratic election, Chung said.

As in Korea, recent develop-

ments have moved Chile closer to democratic government. But, while South Korea had no previous democratic tradition, Chile had a long succession of elected governments — broken fifteen years ago with the military overthrow of President Salvador Allende, a Marxist.

Patricio Torres, Chilean consul general in Washington, explained Allende's overthrow as a reaction to fears that the leftist government would impose a totalitarian state, and to the volatility of Chilean politics in the three decades before. He also alluded to some foreign interference — from the Soviet Union and Cuba, and the United States — but did not elaborate.

Torres saw the plebiscite that rejected the military junta headed by General Augusto Pinochet as the culmination of an eight-year transition to democracy. According to Torres, the government in 1980 began that transition by proposing a new constitution. The transition was sped up by street demonstrations sparked by the 1982 recession, Torres said.

The present government is committed to competitive elections next year, Torres said.

Vice Consul Malik Azhar Ellahi of Pakistan's consulate in

Fall Back!

Daylight savings time officially ends at 2 am this coming Sunday. Don't forget to push your clock back one hour.

Many ODSA goals have not been met

(Continued from page 1)

Other topics suggested for re-evaluation by Sherwood, such as freshman residency requirement and the eight term guarantee of housing to undergraduates, have met with little, if any, scrutiny, according to Associate Dean for Student Affairs James R. Tewhey. And while an increase in the late cancellation penalty fee is now under discussion, no type of "room reservation deposit for all undergraduates" has been instituted.

Several of Sherwood's goals in the area of faculty-student contact have been realized. "Faculty/guest in residence" and undergraduate seminar programs in institute houses have been implemented to enhance the relations between student and faculty, and a junior faculty resident has been appointed to East Campus. But Tang Hall still lacks a housemaster.

Time is limiting factor

Time is a major factor in whether or not recommendations such as these are realized. With "only 24 hours in each day" Tewhey finds himself making "tough choices." Feeling a responsibility to his staff, Tewhey must monitor their workloads to avoid "overcommitment" and "burnout." Even with unlimited financial resources at his disposal, Tewhey concluded, there would still be a great contrast between one's "wish list" and reality.

For many of these goals to be realized there must be student involvement, Tewhey said. With their heavy workload many students find it difficult to help, he added.

Sherwood, who is now at Boston College, also recognized the difficulty of time constraints. High turnover in the Dean's Office and the fact that students themselves are only here for four years result in a lack of continuity, Sherwood believed.

For example, five years ago several schools were consulting MIT regarding student housing due to its comprehensive study. Now the reverse is true; MIT recently contacted Sherwood at BC to find out about housing issues. It's this constant "re-inventing of the wheel," Sherwood contended, which makes progress difficult.

With many demands on a limited amount of time, it is necessary to constantly bring attention to an issue to see progress, Sherwood asserted. Simply suggesting an improvement is not enough — one must guide it through the sometimes endless discussion and into action, he said.

Sherwood applauded the Institute for its ability to be "introspective and honest about its flaws" on an academic level. But he felt that the "financial and people resources" necessary for success are not fully committed. MIT suffers from "inertia," he concluded, and it is up to the students to add an additional push.

Since MIT has "the intelligence and the money to make anything happen," the real effort comes in reaching the "ultimate decision" to go through with a project, Sherwood said. Once the commitment has been made, the goal is as good as met.

Sherwood cited the renovation of the Julius A. Stratton '23 Student Center as an example. The renovation project is near completion, although it required a \$5 million budget increase.

Sherwood believed MIT should change its priorities. He recommended a shift in emphasis from dealing with crisis situations to anticipating possible difficulties and solving them well in advance of major problems. Sherwood cited the Student Center renovations as a prime example of such action. He commended the Insti-

tute for improving something that needed change but was not yet an "eyesore."

Sherwood also felt that MIT should devote more resources toward improving student life. The Institute does not "give much respect to the quality of student life

or, consequently, to the Office for Student Affairs," he said. The responsibility for changing this, Sherwood felt, again falls mainly on the students, since they "have as much power if not more" than any one office.



Kyle G. Peltonen/The Tech

Professor Dertouzos opens the two day 25th Anniversary Symposium of the Laboratory for Computer Science. Originally named Project MAC, the LCS was formed to create early time sharing systems and remained a prominent force in the computer industry since.

TCA BLOOD DRIVE INFO



Location: La Sala, Student Center

Dates/Times:
Monday October 31 — Wednesday November 2nd
10am-4pm

Thursday November 3rd — Saturday November 5th
11am-5pm

Monday November 7th — Wednesday November 9th
1pm-7pm*

Appointments: Walk-ins are welcome, but appointments are preferred. You can pick up appointment forms in the TCA office (Student Center, 4th floor), in Lobbikes 10 and 7, and at the desk of your living group or dorm.

Questions?: Please call the TCA office at x3-7911 or x3-4885, or call Rita at x5-6425 or Niki at x5-7363.

* No appointments will be given after 4pm on Wednesday, November 9th.

This space donated by The Tech



COMMUNITY SERVICE
OPPORTUNITIES Tutoring

OPEN MEETING

Student Center — Twenty Chimneys
3rd Floor
Thursday, November 3
7:00 pm — 8:00 pm

Refreshments!

news roundup

from the associated press wire

World

Anderson spends 41st birthday in captivity

Yesterday was hostage Terry Anderson's 41st birthday. Anderson's colleagues at the Associated Press Bureau in Beirut marked the occasion, by singing "Happy Birthday" and blowing out candles on a chocolate cake. This is Anderson's fourth birthday as a prisoner of Lebanese kidnappers.

Reagan charges US embassy in Moscow is "bugged"

State department officials say it will be years before a new US embassy is built in Moscow. President Reagan said today the one that is nearly completed should be torn down because it is crawling with bugs — listening devices planted by Soviet construction workers. The Soviet news agency "TASS" said the bugging allegations are groundless.

French abortion pill pulled off the market

The French company which pulled an abortion pill off the market said today it may eventually distribute the drug again. The decision to remove the drug from shelves was criticized by scientists, social groups, and politicians but it was hailed by anti-abortion groups and the Catholic church.

Soviet Union changes business policy

The Soviet Union may be about to adopt another basic rule of western business: if an enterprise is losing money, shut it down. Moscow's finance minister says a number of unprofitable businesses and farms are going to be liquidated to help bolster the Soviet economy. The moves are also designed to help cut the Soviet Union's budget deficit, which is expected to reach \$58 billion.

Rubes®

By Leigh Rubin



Appropriate symbol for the consequences of Halloween candy.

Campaign

Dukakis questions Bush plan to cut capital gains

Democratic presidential nominee Michael Dukakis wants to know what kind of jobs could be created by cutting the capital gains tax, as George Bush has proposed. At an appearance in Evergreen Park, Illinois yesterday, Dukakis once again called the plan a break for the rich. He asked, "What are they going to do with the extra money? Hire a second butler, a lifeguard for the pool?" Dukakis also insisted the election is still up for grabs, even though polls show him trailing his Republican rival.

NAACP retracts Bush endorsement

A Columbus, Ohio, NAACP official has been ordered to retract her endorsement of George Bush for president. National director Benjamin Hooks insists it is not a question of Republican vs. Democrat — the NAACP does not endorse candidates in order to retain its tax-exempt status.

Nation

Evidence the economy may be slowing down

The commerce department says Americans' personal incomes rose a moderate one-half of one percent last month. Personal spending did not change at all from August to September. Linking the two numbers, one analyst says consumers are being more tight-fisted because their incomes are going nowhere.

Price of imported items drops

The labor department says the price of imported items fell by 1.1 percent during the third quarter. That is the first quarterly drop in that figure in more than two years. Lower prices for crude oil and other imported fuels led the way. Analysts say that the overall figure would have dropped even without those declines.

National Enquirer owner dies in Florida

MIT lost an esteemed alumnus earlier this month when Generoso Pope Jr. '46 died after suffering a heart attack at his home. Pope, a New York City native, bought the *National Enquirer* for \$75,000 and turned it into the successful supermarket tabloid noted for its loud style and exaggerated narrative.

Inmates surrender in New Jersey

A peaceful ending to a hostage situation at a prison in Newark, New Jersey. Two inmates who took a counselor and a teacher hostage early yesterday have surrendered after releasing their hostages unharmed. Corrections department officials say the inmates' only demands were to be transferred to a federal prison outside New Jersey and that they not be punished for their hostage-taking.

Local

Explorer to search for tea

Pollution in Boston Harbor has been a big campaign issue, but there's at least one person who's not afraid to go into the water. Explorer Barry Clifford says he has found the exact site where the Boston Tea Party was staged. He wants permission from state officials to look for what he thinks will be ornate Chinese tea chests that were pitched into the water by patriots protesting a British tax on tea.

Bush tries to tip balance in Washington

Bush visited Tacoma to pick up the endorsement of a 50-thousand-member marine engineers' union. He continued to emphasize the economic themes he's been pushing this week and took time out to praise the international effort to save the whales in Alaska. Bush called it "a reaffirmation of the bond between man and nature."

Reagan hits trail for Bush

President Reagan calls it "an act of self-defense" to vote Republican on November 8th. Beginning a week-long campaign and fund-raising trip on behalf of the Bush-Quayle ticket, Reagan told an audience in Little Rock, Ark., that Michael Dukakis is a liberal who will raise taxes and threaten the nation's defenses.

Quayle speaks on homeless issue

Bush's running mate says homelessness cannot be blamed just on a lack of low-income housing. Dan Quayle says he thinks there is adequate housing in the country. He is asking whether there are more volunteer shelters that can be used to help the homeless.

Sports

Muncie pleaded innocent

Former NFL running back Chuck Muncie pleaded innocent in San Diego today to four drug counts stemming from his alleged attempt to sell cocaine to undercover agents. The US magistrate in the case has set a Monday hearing to schedule pretrial motions. Muncie played a decade of pro-football with the Saints, Chargers and Vikings before retiring in 1985.

Mitchell gets passing record

Although it took a little extra time, college football's one-game record for passing yardage officially belongs to Utah quarterback Scott Mitchell. That is because the NCAA discovered an eleven yard error in the play-by-play sheet, meaning Mitchell will get credit for 631 yards against Air Force on October 15th. The old mark now belongs to Dave Wilson of Illinois who passed for 621 yards in a 1980 game.

Weather

Quiet and cool

A cold front will pass offshore tonight. High pressure will build to our north providing clear skies and cool temperatures through Sunday. Low pressure will approach the area from the northwest Sunday night.

The extended outlook for the next week calls for "stormier" weather and below normal temperatures.

Friday afternoon: Increasing clouds with scattered late afternoon or early morning showers. South-southwest 10-15 mph. High 54-57°F.

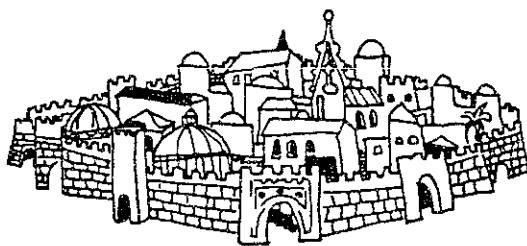
Friday night: Clearing, breezy and turning cooler. Winds becoming northwest 10-20 mph. Low 38°F.

Saturday: Mostly sunny and cool. Winds west-northwest 10-15 mph. High around 50°F. Low 35°F.

Sunday: Increasing clouds with precipitation arriving from the west and south. High 50°F. Low 38°F.

Forecast by Michael C. Morgan
Compiled by Annabelle Boyd

▲ Gay & Lesbian
 ▲ Grad Student
 ▲ Coffeehouse
 ▼ Tuesday, Nov. 1 4-6 P.M.
 ▼ 50-306 Walker Memorial
 Sponsored by the Graduate Student Council



Are you interested in going to Israel for study, travel, or kibbutz?

Come meet David Leichman, Israeli Shaliach/Representative
Wednesday, November 2, 10 am - 1 pm
MIT Hillel, 312 Memorial Drive

Call 253-2982 to schedule an appointment.

opinion

Column/Jonathan Richmond

Ethics education must focus on modes of thinking

Second of two parts

During her address at the colloquium on "How To Be Good," Professor of Aeronautics and Astronautics Sheila Widnall '60 proposed educational changes to make MIT students aware of issues of ethics and thereby more ethical in subsequent engineering practice. Her proposals, which stem from a limited conception of engineering ethics, unfortunately offer few real prospects for improving students' ethical knowledge or behavior.

Widnall rightly insisted that "we must maintain high ethical standards in our work at MIT. The faculty has a responsibility to set an academic climate where one is not pressured into dishonesty in order to maintain one's academic standing."

I doubt, however, that there is much overt dishonesty of the type Widnall refers to at MIT. On the other hand, there is much narrowness — a tendency to ignore the context in which engineering work is set, to avoid asking whether the research carried out can be defended ethically, and to avoid asking if the techniques used imply an ethically justifiable system of evaluation.

There are courses in cost-benefit analysis, for instance, but they do not generally rigorously examine whether cost-benefit analysis is itself ethically justifiable as an analytic tool. There are many courses which teach ways of optimizing systems, but few which make students aware that choosing the most efficient system is not necessarily akin to selecting the most socially-desirable one. It is neglected issues such as these that beg attention; to ignore such fundamentals is to be ethically deficient.

Widnall said that "while I do not look to the Humanities and Social Science requirements to provide our students with the ability to deal with ethical dilemmas, they have a significant contribution to make." Such study, Widnall claimed, can "expose the

student to the richness of human experience, the dilemmas and ambiguity."

That is certainly valuable in itself. A knowledge of problems of interpretation in history or art is, however, unlikely to translate into an appreciation of the ambiguities inherent in engineering in particular unless some mechanism is provided for making the connections from the one domain of study to the other. There is a rather naive belief around MIT that taking more courses in humanities will in itself somehow make one more humanitarian. That is a myth.

Having humanities make students better people also conveniently avoids the issue closer to home. While engineering departments can teach techniques, the humanities can provide for the human side of things, it can be argued. But it is only when engineering is made to clash directly with its ethical assumptions that real progress can be made.

Widnall cited current courses in engineering ethics, saying that "through discussion and case studies, a variety of important ethical issues are discussed. I would think that students would find fascinating such discussions about the professional roles and dilemmas of the practicing engineer." The problem with many such courses, however, is that they fail to provide a systematic and rigorous examination of ethical issues fundamental to all engineering practice. Reading case studies where engineers behave in corrupt ways, and discussing how they might have acted better can make one feel good. But doing so does not necessarily provide a way of asking the essential "meta" question of "am I asking the right question" when dealing with particular engineering approaches or techniques, or instill a theory capable of unmasking the ethical presuppositions of engineering inquiry in general.

Widnall also advocated courses to meet the specific needs of each

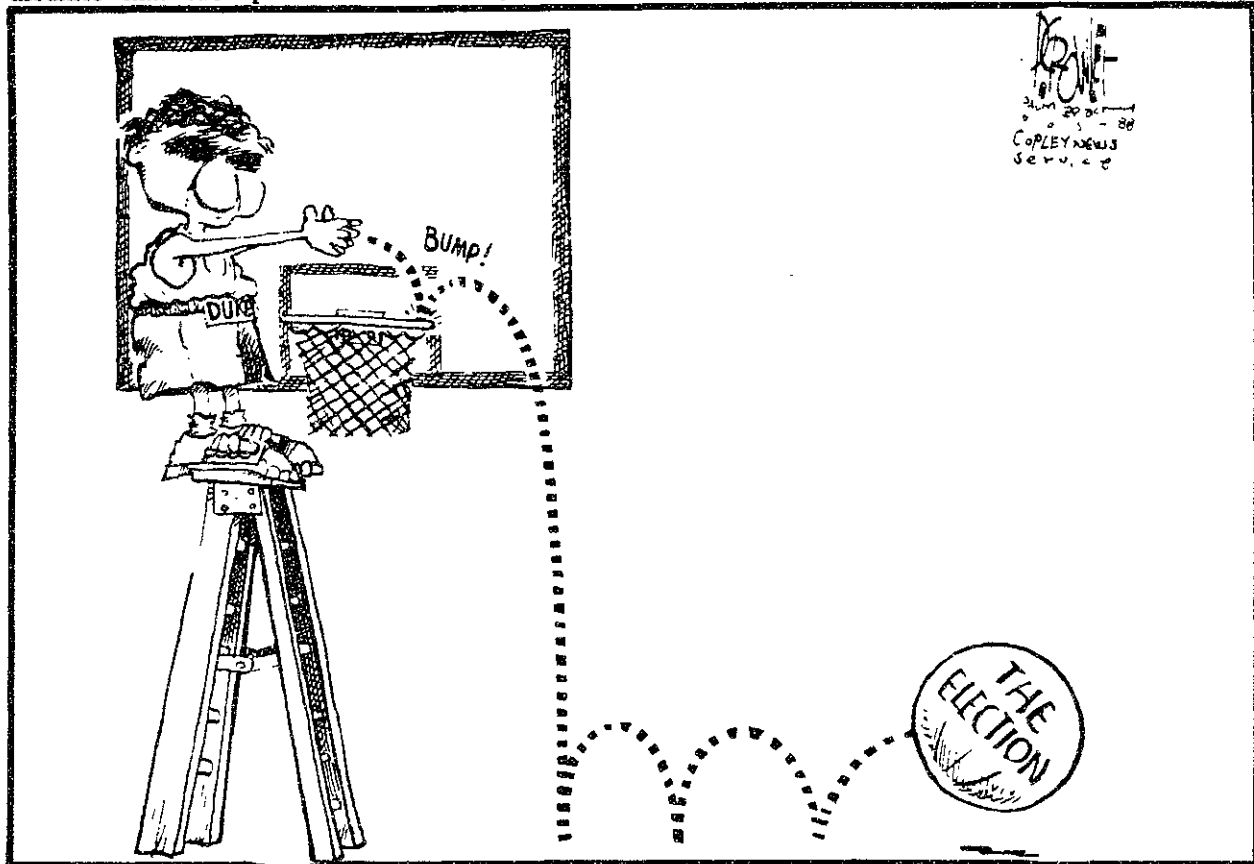
engineering department, and in doing so exposed the lesser standards she expects for ethical study than for "hard" engineering. "These not be credit-granting courses, but they could be departmental seminar series where practicing engineers and observers of the professional scene could participate." She gave as example a seminar her own department might hold on "the systematic under-budgeting of the space shuttle program and the resulting consequences." Such a topic, however, is self-serving, rather than self-examining, for it assumes that the space shuttle

program is desirable in the first place, rather than opening to debate the much more important question of whether that is indeed the case.

Widnall also said that the opportunity exists to "insert ethical issues into our regular courses." The ethics of not resolving an identified defect in the DC10 before two major accidents had occurred could for example be considered in Unified Engineering, she said. She is right that this question should be raised but, as in all her examples of ethical education, it is hardly a very intellectually challenging one. How

many students would likely defend the failure to remove the defect? The metaphor of "insertion" Widnall uses, furthermore, implies adding to something which already exists, rather than restructuring the whole approach to engineering study in general.

What it all boils down to is that ethics is something that is "fascinating" rather than fundamental, something to study to make one a well-rounded person, just like art or music appreciation, but which sits off to the side, rather than takes center stage in the engineering curriculum. (Please turn to page 7)



feedback

Finance Board objects to UA decision

To the Editor:

In the Oct. 21 article "UA limits Finance Board's autonomy," which reported on the debate over approval of the Finance Board's budgets, we feel the *Tech* misrepresented the nature of the discussion. To correct the negative image of the Board invoked by the article, we would like to present our stance.

The Undergraduate Association Finance Board does not contest either the constitutional right of the UA Council to overturn funding decisions or the right of the student body to hold us accountable for our work. On the contrary, the Finance Board's policies are written to both support students and student activities, and to make explicit the guidelines by which money is allocated. Included in our bylaws is the stipulation that each student activity which submits a funding request be contacted by a member of the board and informed of the two-step appeals process outlined in the UA constitution. A group may first appeal to the Board to review its decision, and then may further appeal before the UA council should it question the Board's appeal decision.

The Finance Board has always stood squarely behind the appeal process and continues to do so. This procedure provides "checks and balances" in the budgeting process. No group has found the Board's second decision unfair or unreasonable.

The Finance Board has upheld its duties as prescribed by the UA constitution. The nature of the process by which student activities are allocated money requires that there be extensive communication with and representation of

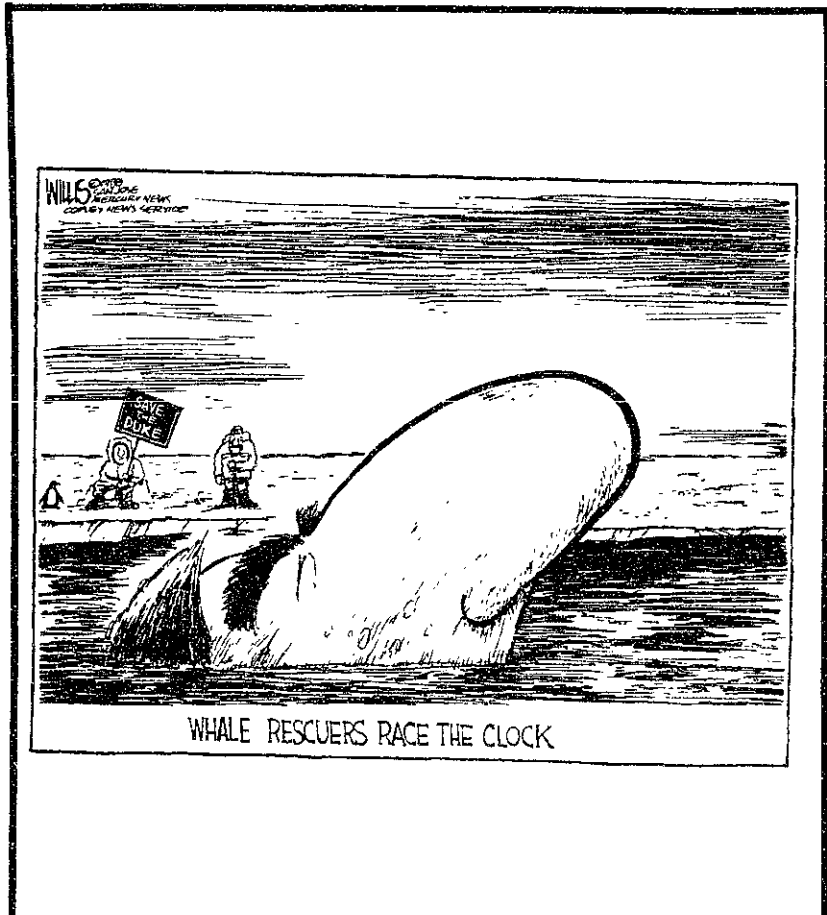
student activities to insure fair and just funding. By proposing to vote to approve each budget, each council member has become responsible for the decisions and policies with which he or she is unfamiliar. Although done with the intention of showing UA Council's support of Finance Board's budgetary process, this precedent is in contradiction to the delegation to Finance Board of the financial responsibility outlined in the UA's charter.

Now that UA council is the decisionary body, the two-step process is nullified, since there is no longer a higher authority to

which a student activity can appeal. This is the reason for which the Finance Board objected to the UA Executive Committee's decision.

The Finance Board does not feel now, nor ever has, that it is an autonomous board. We are a standing committee of the UA, and wish to remain a part of the team designed to best serve the student body. We simply ask that the UA Council again consider us as members of the team of which we have always tried to be a part. After all, is not our first priority to serve the student body?

The UA Finance Board



The Tech

Volume 108, Number 44

Friday, October 28, 1988

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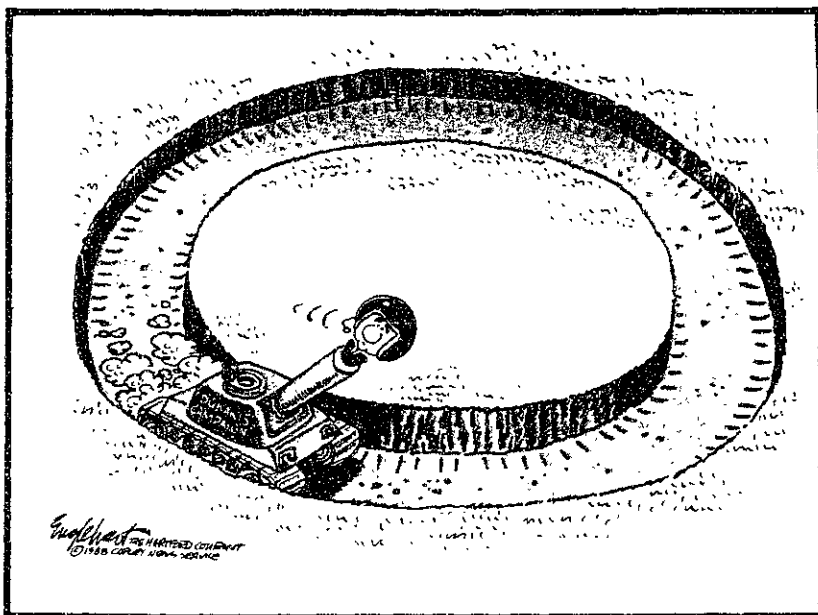
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opinion



feedback

Students also campaign for Ron Paul

To the Editor:

I was disappointed that the article "MIT students active in presidential campaigns" [Oct. 25] omitted any mention of students working for the Libertarian candidate, Ron Paul. In addition to students working independently for his campaign, MIT Students for Individual Freedom is alive and well and actively supporting the Libertarian ticket. We helped bring Paul on campus last year and have been providing information about his campaign and

about Libertarians through our bulletin board and electronic mail.

Despite the lack of media coverage that the Libertarians have been receiving in the 1988 presidential campaign, it is still the fastest growing and third-largest political party in America. In 1984, Ed Clark got nearly a million votes on the Libertarian ticket, and with the disgust many people feel for Bush and Dukakis, the Libertarians are likely to have their best year yet.

I think it is a shame that fewer people are aware of the Libertar-

ian position, because many Americans who favor Libertarian ideals don't realize that there is this third option. It has been pointed out many times that Republicans are for violating civil liberties, while Democrats violate economic liberties. With the big spending and greater government compulsion coming from the left and right, the Libertarian Party presents the only consistent defense of liberty.

Ellen Spertus '90
President, MIT Students for
Individual Freedom

feedback

Finance Board still unaccountable

To the Editor:

The Undergraduate Association Council Executive Board's recent decision to require Council approval of Finance Board allocations ["UA limits Finance Board's autonomy," Oct. 21] was misguided at best and very possibly harmful to student interests, because it failed to address the real problem of student activity funding — the Finance Board currently does not represent the students of MIT.

Finance Board, as the distributor of student activities funds amounting to \$67,000 a year, clearly should be representative of the entire campus, for the \$67,000 comes before passing through MIT's fingers, straight from the tuition of all students, not just those involved in student activities.

Finance Board, however, is not representative. It appears to be on the surface, for it is composed of members selected through the UA, Association of Student Activities, and Nominations Committee. Unfortunately, the overwhelming majority of campus does not belong to or identify with the UA, ASA, or Nomcomm. This is changing, but in the meanwhile, all most people see is the same group of people, as genuine and dedicated as they may be, running all of these activities.

The Execboard vote and subsequent vote of support by the Council solve neither the problem of accountability nor the lack of representativeness of Finboard. The composition of the board remains unchanged, while the accountability of Finboard gained is minimal — the Council already had censure powers over Finboard.

One certain outcome of the meeting is the very real possibility that the UA — the Execboard and the Council — will fall into an "ok, problem solved" mode and not investigate ways to change the composition of Finboard. The real threat of this was evidenced Thursday when, less than half an hour after an intense debate for control of the budget, merely rubber stamped Finboard's second trimester allocations.

Clearly, the Execboard decision is not the answer the problems with Finboard. The answer is to seriously and intelligently evaluate how to change the way members are chosen to the board.

One idea is that all members should run for office just as the UA President and Vice President do, on a campus-wide level in spring. This would make the prospective members go out and canvass voters, letting them know where they stand, and give the

students a real voice in controlling their money.

Another option is to elect half the members, and choose the other half through Nomcomm. This would give students with a genuine interest in Finboard another open channel, one that does not depend on the amount

of publicity one can generate.

Whatever the solution, the UA, working with its Finboard, has to move decisively towards finding it and ending the long period of student activity representation and resulting mistrust of the Finboard.

Vijay Vaitheeswaran '90

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.

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

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opinion

MIT should require ethics education

(Continued from page 4)
lum. That is wrong, for there is nothing in engineering without ethical implications, neither the choice of a subject to be studied, nor a means for studying it.

Despite all the above gloom and doom, there are some encouraging signs at MIT. Students in the Technology and Policy Program and students in the Program in Science, Technology and Society are being made aware of many of the larger issues affecting our understanding of technology. The Integrated Studies Program for freshmen also sets a healthy precedent. New this year, furthermore, are "context" courses, an excellent idea that puts together engineers and humanists, scientists and social scientists, to look at the context in which science and engineering is set. These courses are, however, taken by a small minority of MIT students, and only by those predisposed to be sympathetic to such issues.

What is needed is a course made up of the best of the progressive teaching on technology and its context which already exists at MIT, and emphasizing the systematic application of moral philosophy to engineering practice. Moral philosophers have long considered the moral implications of different systems for evaluating what is morally good.

They have long, for example, been critical of utilitarianism (which demands "the greatest good for the greatest number"), an ethical system which, unknown to most engineers, tacitly lies at the heart of work in engineering.

There are already courses in ethics offered by the Department of Linguistics and Philosophy, and they already cover this and other relevant material. They don't, however, generally apply it to engineering in particular. Philosophers could, however, prepare students to rigorously critique the ethical assumptions of material introduced in engineering courses. Such a course should be required of all freshmen.

What is secondly needed is a non-trivial direct involvement with such issues in engineering courses themselves. Students should be encouraged to reflect upon the ethical nature of any given technical approach, rather than merely learn to use it.

There are few prospects of this happening in the immediate future, if only because today's faculty is not trained to think about such issues; Widnall's simplistic

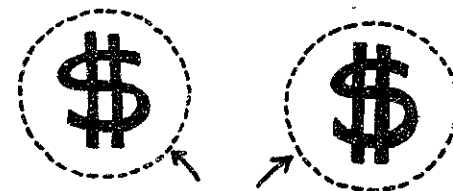
notions of ethics provide more than ample evidence of this. By at least encouraging today's students to criticize rather than merely to compute, however, and by providing the analytical apparatus for doing so, we can look forward to a new generation of teachers capable of teaching more ethically-aware curricula.

The hardest lesson of all is that there is no one way "To Be Good." The very title of the colloquium suggests that we can learn to be ethical in the same way we can learn mathematics. The role of education should not, however, be to teach rules of ethics, but to instill a mode of thinking that compels us to consider the ethical nature of everything we do, rather than allow us to robot-like employ techniques with deep moral consequences of which we are not aware.

Jonathan Richmond is a graduate student in the Department of Civil Engineering and an arts editor of The Tech. He teaches 1.962, which includes the use of moral philosophy to examine questions of transportation policy.



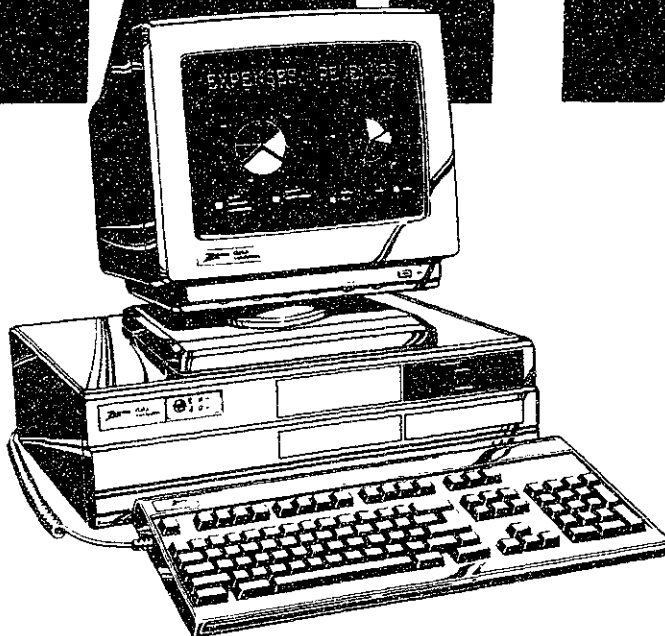
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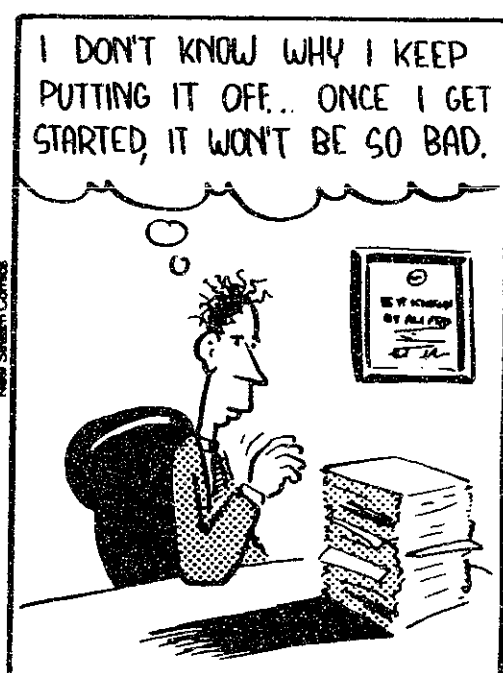
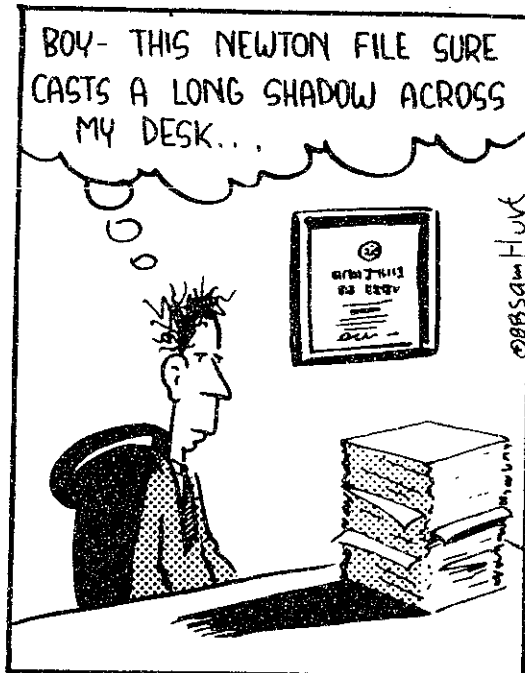
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MIT SM (6-3) 1983

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MIT SB (16) 1988

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MIT (6-1) SM candidate

U2's latest album, *Rattle and Hum*, is far from their best

RATTLE AND HUM

U2.
Island Records (Atlantic).

By DEBBY LEVINSON

U2 IS ONE OF THE FEW BANDS that can consistently give outstanding live performances. They never pander to their audience, and always avoid embarrassing rock posturings while still delivering a powerful political message. Now live songs and several studio cuts collected from last year's *Joshua Tree* tour have been assembled into *Rattle and Hum*, the soundtrack from U2's forthcoming movie of the same name. The double album *Rattle and Hum* is U2's first recorded work in a year and a half, and unfortunately, disappointing compared to their earlier efforts.

Rattle and Hum opens with a live version of the Beatles' "Helter Skelter" that lead singer Bono claims to "steal back" from Charles Manson. Sadly, the song's droning guitar and Bono's slightly off-key vocals detract from an otherwise promising beginning. U2 could have taken a cue from Hüsker Dü's thrash-punk recording of this song and speeded it up a little; at its present tempo, it's almost soporific.

The next song is "Van Diemen's Land", a song written and sung by Edge, U2's guitarist. Edge's voice is polite and carries a nasal quality reminiscent of Woody Guthrie and the Alarm's Mike Peters. The song's gentle Irish folk rhythms are soothing, belying its unhappy tale of an Irish poet deported to Australia because of his poetry.

"Desire," the current single, features a bouncing, ringing guitar and a Bo

Diddley-type solo. It's pleasant if forgettable, a lightweight U2 song that's fun to listen to at top volume but doesn't contain much of the political bile the group is famous for. Better to move on to "Hawkmoon 269," a dark, evil love song with Edge's fuzzbox guitar providing sharp little embellishments to the verses. Masochistic lyrics such as *Like a needle in a vein / like someone to blame / . . . I need your love* and the tortured final verse give this song substantially more depth than the preceding ones.

However, the group produces another weak song in their gospel rendition of "I Still Haven't Found What I'm Looking For"; the song's original version was a centerpiece of the *Joshua Tree* album. While its spare semi-acoustic opening is fragile and showcases the longing and desire for release expressed in the lyrics, the gospel choir that kicks in at the chorus is too polished and precise and overwhelms the song's delicate beginning. The choir's parts become tolerable by the third verse, and soloist Dorothy Terrell's fiery vocals almost save this recording, but by the end, U2 has blown their chance at producing an incredible song.

Fortunately, they redeem themselves at the end of the first side. "Silver and Gold" and "Pride" are two of U2's finest songs, both live and on vinyl. In "Silver and Gold", Bono casually tosses off lines like *There's a rope around my neck*, but this only emphasizes the song's virulent anti-apartheid message. As for "Pride," this is clearly the best live version of the song I have ever heard. "Pride" has a powerful message, a valediction to Martin Luther King Jr., and to hear a crowd of ten thousand singing along to the chorus is indeed

awe-inspiring.

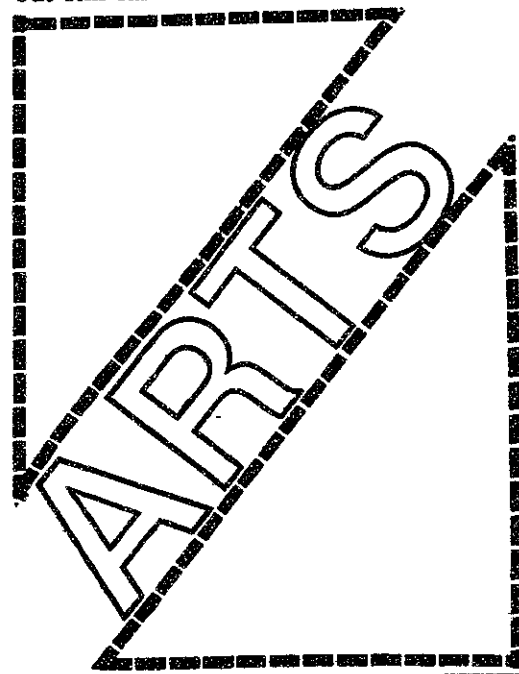
Side two opens with "Angel of Harlem," a Stax-like soul tune that benefits from the Memphis Horns' crisp riffs. This, along with two other songs, was recorded at Memphis' Sun Studios, most famous for Elvis' "Sun Sessions." Unfortunately, the second of the Sun trio, "Love Rescue Me," is a plodding collaboration with Bob Dylan that even the talented Memphis Horns cannot save. Bono's patented throaty scream revives some hope of rescue at the end, but by then it's too late to matter. Far better than this awful song is a duet with blues master B.B. King on "When Love Comes to Town," King's best work in years. His vocals are soulful and his guitar tight and cutting. Bono even does a passable impression of King to help produce one of *Rattle and Hum*'s catchiest songs.

"Heartland," a Brian Eno/Daniel Lanois effort that would have been at home on U2's *Unforgettable Fire* LP, follows "When Love . . ." It's almost upstaged, though, by the band's subtly vicious "God Part II," a tribute to John Lennon that bitterly indicts controversial Lennon biographer Albert Goldman. *Instant karma's gonna get him if I don't get him first*, warns Bono, which is possibly the best summing up of the rock community's abhorrence of Goldman I have yet seen.

U2 apparently saved the best for last, as their live version of "Bullet the Blue Sky" is the penultimate track on this album. Opening the song with a recording of Jimi Hendrix's "Star-Spangled Banner," U2 adds an inky morass of bass and drums as Edge's fiercely howling guitar rips across the introduction. Bono's vocals are pained and furious, adding spark to this condem-

nation of US involvement in Nicaragua. Bono is damning in his description of US excess, murmuring *And I can see those fighter planes . . . Outside it's America*. Edge's guitar work is inspired; his rough and ragged slide guitar textures the song and adds to its violent sentiment. "Bullet" is the finest song on the album; it's a cut that stands up to U2's strongest live work, "New Year's Day" and "11 o'Clock Tick Tock."

Would that the rest of *Rattle and Hum* were this intense; the album would then rank among the best live albums ever. However, with the failure of many of the studio cuts, *Rattle and Hum* is an uneven collection of songs, not U2's worst effort but still far from their best.



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ARTS

Van Gogh describes events in epistolary film biography

VINCENT
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Van Gogh's letters read by John Hurt.
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By MANAVENDRA K. THAKUR

THE SINGLE MOST NOTEWORTHY achievement of Henri-Georges Clouzot's *The Mystery of Picasso* (1955) was that it gave viewers a firsthand glimpse into the creative processes behind the artistry displayed on the canvases; the film contained vivid footage of Picasso painting several works. Now, more than thirty years later, Australian director Paul Cox has reached back to his Dutch origins to create in his latest offering a similar film portrait of another master painter, Vincent Van Gogh. Given the reality that Van Gogh died almost a hundred years ago, Cox obviously could not duplicate Clouzot's accomplishment. Instead, Cox went to the next most logical source: the letters Van Gogh wrote to his brother Theo between 1872 and 1890, the year of Van Gogh's death.

In his film, Cox has actor John Hurt read aloud several excerpts from those letters, and Cox's camera lovingly graces numerous paintings that Van Gogh created in his lifetime. Interspersed with painterly shots of countrysides (in beautiful autumnal hues) are live action recreations of incidents, people, and places mentioned in Van Gogh's letters. Van Gogh's presence permeates every frame of the film, and although neither he nor Theo is ever seen in the film, it is clear that watching the result of Cox's efforts is the closest anyone can possibly come to hearing Van Gogh talk in his own words about himself and his work. After a few missteps, the film eventually succeeds at transforming Van Gogh and his art into a living and breathing reality.

The film's first reel is perhaps its worst, because John Hurt's voice drones on and on as the camera scans past numerous scenic countryside images in a seemingly random fashion. The film does manage to convey Van Gogh's despondence at his early expulsion from the Flemish Training School for evangelists by quoting Van Gogh's philosophical musings such as as "Our lives are a pilgrim's progress, and we

are strangers on this Earth." But the film shows only a few of Van Gogh's paintings and concentrates instead on recurring shots of birds flying in a V formation, trees, fields, and the like, which do little to make any connections between the incidents described in Van Gogh's letters and his art.

Fortunately, the film soon finds its feet and becomes a smooth and engrossing chronicle of Van Gogh and his art. The film is at its very best when it conveys just how closely intertwined Van Gogh's personal life was with his paintings. In several moments, Cox revisits places described by Van Gogh in his letters and then cuts to the painting that Van Gogh drew of that scene. And in a few breathtaking scenes,

Van Gogh actually critiques his own work and comments on what influenced him to paint the work as he did. Cox chose precisely the right letters and paintings to build a portrait of Van Gogh that is surprisingly complex but also subdued enough to avoid easy sentimentality. In particular, Van Gogh's insanity, his ear-cutting, and suicide are neither overblown nor overlooked. In the later reels of his film, Cox has attained almost a perfect balance between drama and accuracy.

Cox made this film in anticipation of the upcoming centenary of Van Gogh's death, and the film reflects Cox's own lifelong interest in Van Gogh's work. The director had to overcome the practical diffi-

culties of gaining access to rare Van Gogh paintings, and his dedication seems to have paid off. Those intimately familiar with Van Gogh's works may quibble at the lack of focus on any single or favorite painting, but given that Van Gogh painted a total of approximately 1800 paintings, Cox's approach is remarkably efficient and effective.

It is clear that Cox also had to wrestle with some important considerations particular to the film medium. Cox recognizes that he is not Van Gogh, and therefore manages to avoid, for the large part, the easy temptation to translate Van Gogh's style into its modern cinematic equivalent. He does show blurred and slightly surrealistic images of birds and other objects, but for the most part Cox manages to avoid this trap.

A more serious question is whether a painting should ever be seen as a film. The act of seeing only selected portions of a canvas can distract attention from the work as a whole. And if the filmmaker pans the camera across the painting, the static painting is transformed into an evolving cinematic experience that the painter never intended.

Cox clearly recognizes these problems, and he properly does not seek to overcome what are obviously intrinsic barriers. Rather, he emphasizes the strengths that the film medium has to offer, such as film's unique ability to discern minute details through closeups and its ability to create a synthesis of ideas through careful editing and juxtaposing of its images and sounds. It is through this mechanism that Cox creates the precious links between Van Gogh's life and his art that lend credence and presence to the film's portrait of Van Gogh.

Vincent is slightly weakened as a work of film art because it is not as subtle and sublime a film portrait as Paul Leduc's *Frida*. But precisely because of that reason, Cox's film is by far the more accessible of the two. And that contributes enough to its success to enable critics and audiences alike to appreciate in wonder the persona of Van Gogh that Cox has drawn in his memorable tribute.

(The above is an expanded version of the review that ran in these pages during last month's Boston Film Festival.)



Self-portrait with Bandaged Ear, Vincent Van Gogh

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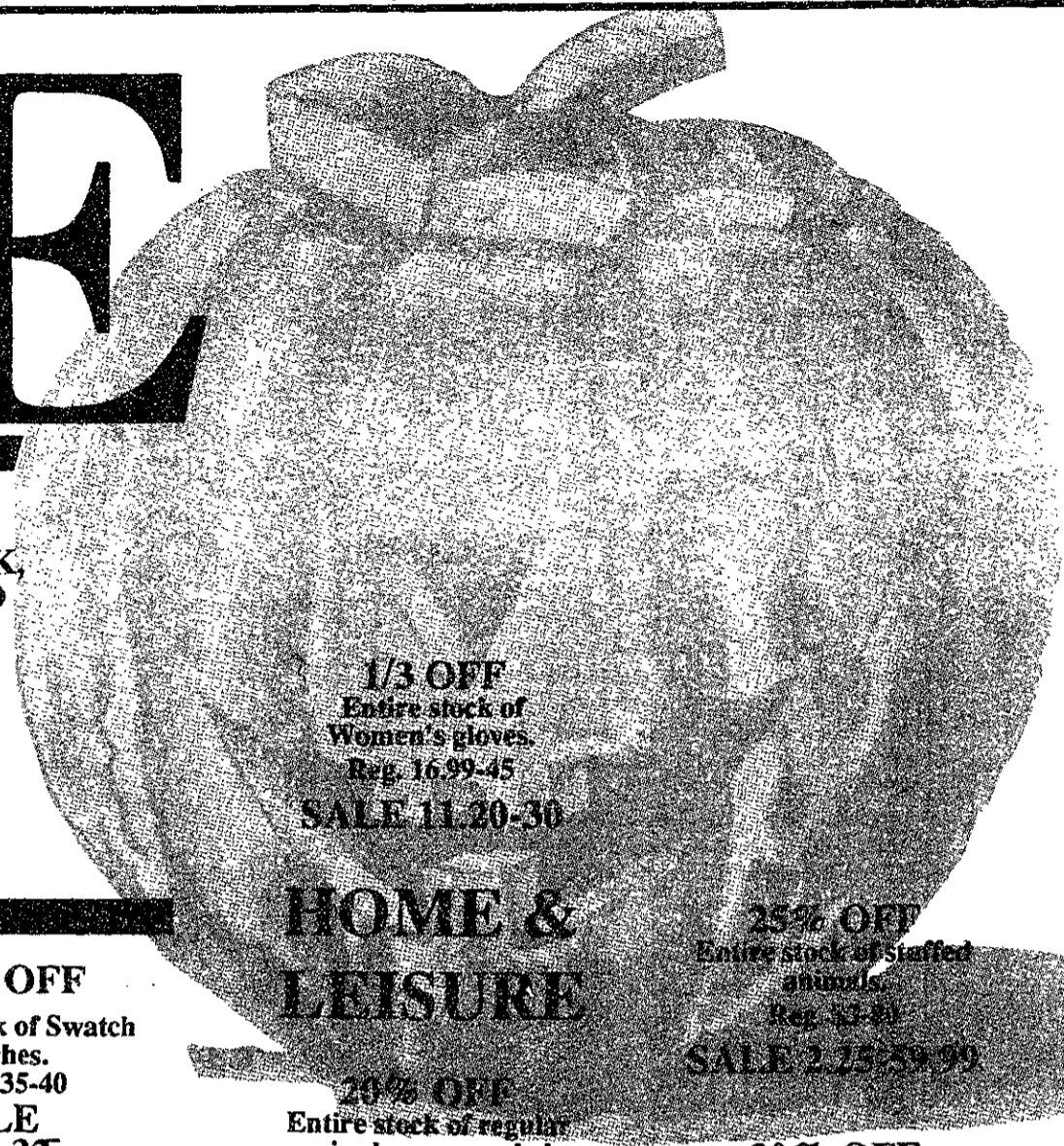
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ARTS

*How to lead a meaningful life: remember what you knew at age six***ALL I REALLY NEED TO KNOW I LEARNED IN KINDERGARTEN**

By Robert Fulghum.

Villard Books, 196pp., \$15.95.

By V. MICHAEL BOVE

SHARE EVERYTHING. Play fair. Clean up your own mess. Say you're sorry when you hurt somebody. These and other bits of wisdom make up Unitarian minister/folksinger/artist Robert Fulghum's rules for living, which he observes were presented clearly and concisely in kindergarten, and could not be improved upon by the many years of study that followed.

In another essay, this self-confessed "pinko egghead minister" has his tongue only very slightly in his cheek when he proposes that the government air-drop Crayola crayons (the giant, 64-color sets) into regions experiencing political turmoil. With childlike wonder Fulghum can enumerate the philosophical merits of Cheer detergent, and conclude, "I tasted it. It's awful. (But my tongue is clean, now)."

But this book of brief essays isn't strictly kid stuff. Fulghum is looking for a

meaningful life in a world fraught with war, famine, and disease. The main thrust of his collected thoughts on love, race relations, lint, Mother Teresa, jumper cables, and especially chicken-fried steak seems to be that the world isn't nearly as bad as it often appears, but that recognizing this fact requires living with unreconcilable contradictions.

A great deal of Zen (as well as an equal dose of no-Zen) runs through this book, and it should come as no surprise that Fulghum lived for a time in a Buddhist monastery. (He has also been an IBM salesman and a working cowboy). Throughout the course of the journey the reader is introduced to a cast of unusual characters, including the author's invisible grandfather, a gentleman in a flying lawn chair, and a rabbi who advises a troubled man to seek wisdom in a book of baseball statistics.

The title essay will probably be copied and stuck to refrigerator doors coast-to-coast. *All I Really Need to Know* is perhaps too saccharine and sanguine in places to be read cover-to-cover in a sitting, but it is a perfect book to be left in a convenient place for opening at odd moments.



ALL I REALLY NEED TO KNOW I LEARNED IN KINDERGARTEN

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COMMON THINGS

ROBERT FULGHUM

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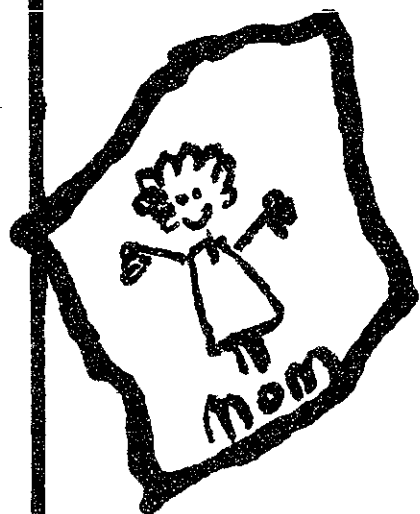


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An Invitation to all Students

The MIT Corporation's Visiting Committee on Student Affairs will be at the Institute on November 6 - 8, 1988. Please join us on Monday November 7 at 9:00 a.m. in the Bush Room for a discussion relating to the quality of life for international students at MIT. The meeting's entire agenda is available in the ODSA, 7-133.

We extend a special invitation to you to attend a meeting and reception for students with the Committee on Monday, November 7 from 7:30 - 9:00 p. m. in the Bush Room.

For more information call 3-6776.

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ARTS

On The Town

Compiled by Peter Dunn

Friday, Oct. 28

FILM & VIDEO

The MIT Lecture Series Committee presents *Camille* (George Cukor), starring the divine Greta Garbo, at 7:30 in 10-250 and *Francis* (Roman Polanski), starring Harrison Ford, at 7:00 & 10:00 in Kresge. Admission: \$1.50. Telephone: 258-8881.

*** CRITIC'S CHOICE ***

The *Manchurian Candidate* (John Frankenheimer, 1962) at 5:30 & 7:45 and *Dr. Strangelove or: How I Learned to Stop Worrying and Love the Bomb* (Stanley Kubrick, 1964), starring Peter Sellers and George C. Scott, at 5:50 & 10:00 are presented as part of the Brattle Theatre's Friday/Saturday series *Hollywood Through the '50s: Films of the Cold War* at 40 Brattle Street, Harvard Square, Cambridge. Also presented Saturday, October 28. Tickets: \$4.75 general, \$3 seniors and children (good for the double feature). Telephone: 876-6837.

The *Animation Collection*, short films from the National Film Board of Canada, is presented at 8 pm as part of the French Library's series *Le Québec vivant* at 53 Marlborough Street, Boston, near the Arlington T-stop on the green line. Also presented October 29 and 30. Admission: \$3.50 general, \$2.50 Library members. Telephone: 266-4351.

Main Street (Juan Antonio Bardem, 1956) at 5:30 and *The Last Song* (Juan de Orduna, 1957) at 9:00 are presented as part of the Harvard Film Archive's series *Images in the Shadows: A History of Spanish Cinema* at the HFA, Carpenter Center for the Visual Arts, Harvard University, 24 Quincy Street, Cambridge. Admission: \$3 general, \$2 seniors and children, \$5/\$4 double feature. Telephone: 495-4700.

JAZZ MUSIC

The Boston University Wind Ensemble and Jazz Lab Band perform at 8:30 in the BU Concert Hall, 855 Commonwealth Avenue, Boston. No admission charge. Telephone: 353-3345.

CLASSICAL MUSIC

Kronos String Quartet performs at 8 pm in Alumni Auditorium, Northeastern University, Huntington Avenue, Boston, near the Northeastern T-stop on the Arborway green line or the Ruggles T-stop on the orange line. Tickets: \$14 and \$16.50. Telephone: 437-2247.

*** CRITIC'S CHOICE ***

The John Oliver Chorale performs works by Ralph Vaughan Williams, Frank Martin, and Benjamin Britten at 8 pm in Old South Church, 645 Boylston Street, Boston. Tickets: \$8, \$12, and \$15. Telephone: 965-0906.

Harvard-Radcliffe Orchestra performs works by Mendelssohn, Barber, and Brahms at 8 pm in Sanders Theatre, Quincy and Kirkland Streets, Harvard University, Cambridge. Tickets: \$4, \$6, and \$8. Telephone: 864-0500.

Violinist Maria Bachman performs works by Beethoven, Franck, Wienawski, and Albert Glinsky at 8 pm in the Edward Pickman Concert Hall, Longy School of Music, Garden and Follen Streets, Cambridge. Tickets: \$10 general, \$7 seniors and students. Tel: 876-0956.

Musicologist/pianist Professor William Kinderman presents a lecture and recital of Beethoven's *Diabelli Variations* at 8 pm in Paine Hall, Harvard University, Cambridge. Telephone: 495-2791.

THEATER

The Sound of Music, based on the uplifting story of the von Trapp family's flight from Nazi-occupied Austria, opens today at the Wheelock Family Theatre, 200 The Riverway, Boston, near the Fenway T-stop on the 'D' green line. Continues through November 20 with performances Friday and Saturday at 7:30, Sunday at 3:00. Tickets: \$6. Telephone: 734-5203 ext. 147/148.

PERFORMANCE

The Shanghai Acrobats and Magicians perform at 8 pm in Symphony Hall, corner of Huntington and Massachusetts Avenues, Boston. Tickets: \$20. Telephone: 266-1492.

POPULAR MUSIC, ETC.

Billy Bragg, with guest Michelle Shocked, performs at 7 pm at the Opera House, 539 Washington Street, Boston. Tickets: \$14.75 and \$16.75. Telephone: 720-3434.

The Temptations and Mary Wilson perform at 7:30 & 10:30 at the Berklee Performance Center, 136 Massachusetts Avenue, Boston. Tickets: \$20 and \$22.50. Telephone: 266-7455.

Luther 'Guitar Jr.' Johnson performs at Johnny D's, 17 Holland Street, Somerville, near the Davis Square T-stop on the red line. Telephone: 776-9667.

Urban Blight, Crazy Eights, and Blue Rhino perform at the Paradise, 967 Commonwealth Avenue, Boston. Telephone: 254-2052.

Unnatural Axe performs at the Rat, 528 Commonwealth Avenue, Kenmore Square, Boston. Telephone: 536-9438.

Dream So Real, *Idaho Alaska*, and *Malaria* perform at T.T. the Bear's, 10 Brookline Street, Cambridge, just north of MIT. Telephone: 492-0082.

Jerry Jeff Walker performs at 8 pm and 11 pm at Nightstage, 823 Main Street, Cambridge, just north of MIT. Tickets: \$15. Telephone: 497-7200.

The Blushing Brides, with guests XKape, perform at The Channel, 25 Necco Street, near South Station in downtown Boston. Tickets: \$8.50 advance/\$9.50 day of show. Telephone: 451-1905.

EXHIBITS

Involvement: The Graphic Art of Antonio Frasconi, a survey of 100 works by the artist credited with reviving the woodcut as a fine-art medium, opens today at the Boston University Art Gallery, 855 Commonwealth Avenue, Boston. Continues through December 11 with gallery hours Monday-Friday 10-4, Friday evening 7-9, Saturday-Sunday 1-5. Telephone: 353-3345.

Saturday, Oct. 29

CLASSICAL MUSIC

*** CRITIC'S CHOICE ***
Sinfonova Chamber Orchestra performs works by Bach, Pärt, Schnittke, and Mozart at 8 pm in Jordan Hall, New England Conservatory, 30 Gainsborough Street, Boston. Tickets: \$19 and \$25 (reduced-price tickets also available through *The Tech Performing Arts Series*). Telephone: 938-6828.

Chorus pro Musica performs Handel's *Alexander Balus* at 7:30 in Emmanuel Church, 15 Newbury Street, Boston. Tickets: \$12, \$18, and \$25. Telephone: 267-7442.

POPULAR MUSIC, ETC.

Jimmy Page performs at the Worcester Centrum, 50 Foster Street, Worcester. Tickets: \$17.50. Tel: 508-798-8888.

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

The Fools, with guests Mike Viola and Saap and Overstreet, perform at The Channel, 25 Necco Street, near South Station in downtown Boston. Telephone: 451-1905.

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

Bentzen perform at the Rat, 528 Commonwealth Avenue, Kenmore Square, Boston. Telephone: 536-9438.

Katie Webster performs at 8 pm and 11 pm at Nightstage, 823 Main Street, Cambridge, just north of MIT. Tickets: \$10. Telephone: 497-7200.

The Tech Performing Arts Series presents...

PRO ARTE CHAMBER ORCHESTRA

Soprano Gloria Raymond (who also works at the medical department at MIT) will be the soloist in Berlioz' *Les Nuits d'été*, while Randall Hodgkinson will solo in the world premiere of Elizabeth Vercoe's "*Despite our differences...*" No. 2; *Concerto for Piano and Orchestra*. Haydn's *Symphony No. 99* is also on offer. David Hoose will conduct. MIT price: \$6.

Sanders Theatre, October 30 at 8 pm.

ANDREW RANGELL BEETHOVEN CYCLE

Andrew Rangell is performing a complete cycle of the Beethoven piano sonatas this season, and we will be selling tickets to hear this compelling performer at an unbeatable price. For his October 30 recital Rangell will play Op. 10, No. 1, Op. 10, No. 2, Op. 28, Op. 54 and Op. 101. MIT price: \$4

Jordan Hall at the New England Conservatory, October 30 at 8 pm.

KAZUHITO YAMASHITA

Japanese guitarist Kazuhito Yamashita achieved critical acclaim in a series of recitals with James Galway. He makes his Boston solo recital debut with a program including Mussorgsky's *Pictures at an Exhibition*, and works by Bach, and Britten. MIT price: \$5

Jordan Hall at the New England Conservatory, November 4 at 8 pm.

TAMBURITZANS

The Tamburitans of Duquesne University, wearing colorful and authentic costumes, will present a kaleidoscopic impression of the most fascinating and romantic parts of the Balkans and neighboring lands, bringing dances, rituals, songs and folklore to life. MIT price: \$5

John Hancock Hall, November 4 at 8 pm.

BEETHOVEN VIOLIN CONCERTO

Tamara Smimova-Sajfar, Concertmaster of the Boston Pops Orchestra, will be soloist in a performance of the Beethoven *Violin Concerto*, with the Pro Arte Chamber Orchestra conducted by David Gilbert. Thomas Haunton will be soloist in Mozart's *Horn Concerto*, K. 412 & K. 514, and Stravinsky's *Dumbarton Oaks* and Beethoven's *Coriolanus Overture*. MIT price: \$6

Sanders Theatre November 9 at 8 pm.

PETER CHILDWORLD PREMIERE

MIT professor and composer Peter Child will have his new work *Estrella: The Assassination of Augusto César Sandino* given its first performance by the Cantata Singers & Ensemble, directed by David Hoose. The composition, a setting of poetry by Pablo Neruda, Ernesto Cardinal and Pablo Antonio Cuadra, examines the circumstances surrounding Sandino's death in Nicaragua in 1933. Two Bach cantatas, BWV 21 and BWV 39, will also be performed. MIT price: \$5

Jordan Hall at the New England Conservatory, November 12 at 8 pm.

Tickets are on sale at the Technology Community Association, W20-450 in the Student Center. TCA offices are not open all day. Office hours are posted on the door; alternatively, you can call x3-4885 before walking over.

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

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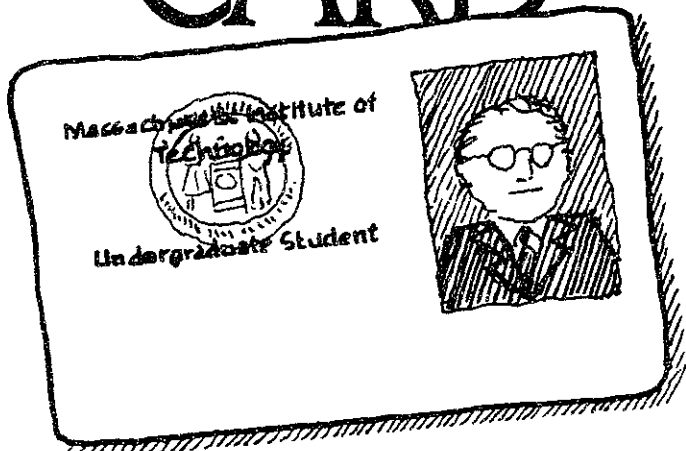
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ARTS

Russell Sherman commands attention in Symphony Hall

BOSTON SYMPHONY ORCHESTRA

Conducted by Pascal Verrot.
 Russel Sherman, piano soloist in
 Harbison's Piano Concerto and
 Liszt's Piano Concerto No. 1.
 Symphony Hall, October 27,
 October 29 & November 1 at 8 pm,
 and October 28 at 2 pm.

By JONATHAN RICHMOND

HERE AREN'T MANY PIANISTS around who can simultaneously seize you both sensually and intellectually. Last night Russell Sherman proved that he is one of these. To Sherman, interviewed by telephone from his Lexington home, "the piano essentially has no character, and therefore is the means to infinite characters." In Symphony Hall, Sherman made his Steinway sing in many guises, made it a focus of magnetic attention as it dreamed, then danced, took off in a fit of bravura, dwelled in the realm of the romantic, and ended the evening on a note of complete conquest.

Sherman began with the *Piano Concerto* of MIT Professor of Music, John Harbison, a dynamic, harmonically rich work and a challenge to any pianist. Sherman's purebred crystalline sound was immediately apparent, a sound armed with an incisive edge, but capable of striking with tenderness as well as passion or brutality. The opening orchestral passage is on the heavy side — intentionally so — and Sherman's entry brought relief, then commanded attention as each little variation in attack elicited an invitation to contemplation.

Russell is clearly taken with the "whole realm of the non-legato, which is deeply neglected," and during the Harbison put on display the many degrees of *stacato* and *legero*, demonstrating that when delivered thoughtfully, percussiveness can be a route to spiritual *legato*.

As is true in many Harbison works, orchestral textures are well-studied in the *Piano Concerto*, and winds add enigmatic coloring to the strings. Sherman was always at the center of attention, with the orchestra at times surrounding him, but never quite able to hold him hostage.

The opening of the second movement brought with it a rhythmic intensity from Sherman, transcended by a passage of Chopinesque lyric beauty, which in the midst of Harbison's abundance of complexities was utterly disarming.

Sherman returned after intermission to give a dramatic performance of Liszt's *Piano Concerto No. 1*. Sherman showed the truth of his belief that each performance "is a renewal and recreation; that's the beauty of music as original essay." He did so by drawing attention to each phrase, carefully placed inflections drawing attention to aspect of Liszt not encountered before. In the second movement Sherman's playing was tragically beautiful, deeply sensual, but still feeding the mind with a new twist on this detail, a little extra emphasis on that one. Intimate colors were made to bloom and fade, drawing the audience into Sherman's — and Liszt's — intimate, personal world.

Every moment in the last movement had its place in Sherman's *crescendo* rise to a

triumphant finale, one that was powerful, one which left everyone spiritually refreshed.

The concert began with a square and charmless account of Bizet's *Symphony in C*. It ended with a vibrant performance of

Roussel's *Bacchus et Ariane*, Suite No. 2, Op. 43.

Note: Rush tickets will be available for repeat performances of this concert to be given this afternoon and tomorrow night.



Russell Sherman

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HARRY S TRUMAN SCHOLARSHIPS

The annual Harry S Truman Scholarship Awards will be made to current sophomores interested in a career in public service who are U. S. citizens or nationals. Three MIT students will be nominated. Two out of three MIT students nominated last year were recipients of Harry S Truman Scholarships.

The awards are for \$7,000 per year and are renewable for the senior year and for up to two years of graduate study. **Any sophomore wishing to be considered should contact Ms. Jocelyn Kalajian, E51-228, Ext. 3-4044, no later than November 10, 1988.**

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- Molecular mechanism of cellular and viral replication
- Molecular mechanism of viral host interaction
- mRNA transcription, processing and stability *in vivo* and *in vitro*
- Gene expression of exocrine gland-specific secretory proteins
- Isolation and characterization of gene-specific regulatory DNA binding proteins
- Transgenic animals and mammalian gene expression
- Macrophage and neutrophil physiology
- Immunological mechanisms of liver diseases
- Molecular basis of generation of antibody diversity
- Development and regulation of mammalian lymphoid system
- Molecular biology of plasma membrane receptor
- Pharmacology and molecular biology of neuropeptide processing enzyme
- CNS regulation of cardiovascular function
- Developmental neurobiology of growth factors and their receptors
- Neuroendocrinology of stress and reproduction
- Molecular basis of neurodegenerative diseases
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- Physiology of electrolyte transport
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For further information and application contact: Ms. Jomarie Alano, Box 1022, Graduate School of Biological Sciences, (14), Mount Sinai School of Medicine, One Gustave L. Levy Place, New York 10029-6574.

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JPMorgan

EECS enrollment falls; biology has big increase

(Continued from page 1)

the numbers indicated an increased interest in biology. But he did not foresee any capacity problems in the department because there have been larger classes in the past and the program is flexible.

The entire School of Science posted an increase of 24 students, rebounding from a drop of 31 students last year. Biology and mathematics accounted for the greatest gains.

The School of Humanities and Social Science attracted seven more students than last year with economics posting the largest increase. The Schools of Architec-

ture and Management had minor changes. The Departments of Urban Studies and Planning and Ocean Engineering attracted no sophomores.

Elizabeth Johnson, associate director of the admissions office, said that the new selection process has had an impact on the results of the fifth week count. There has been "an interest in distributing students throughout the Institute in a more equitable manner," she said. Specifically the admissions office has tried to look for students with a strong background in the pure sciences, Johnson said.

World democracy is in good shape, leaders say

(Continued from page 1)

should be cognizant that Pakistan's historical experience was different from that of the United States and Western Europe, Ellahi. Moreover, the Pakistan's democratic problems do not mean that the rights of the people are denied, Ellahi said. The Islamic tradition has had a powerful effect on Pakistan.

Arthur Avnon, Israeli consul general in Boston, credited Judaism with investing a respect for democratic values in Israel. Avnon cited Israel's voting rates, educational system, free press, and system of checks and balances as evidence of its advanced democratic development.

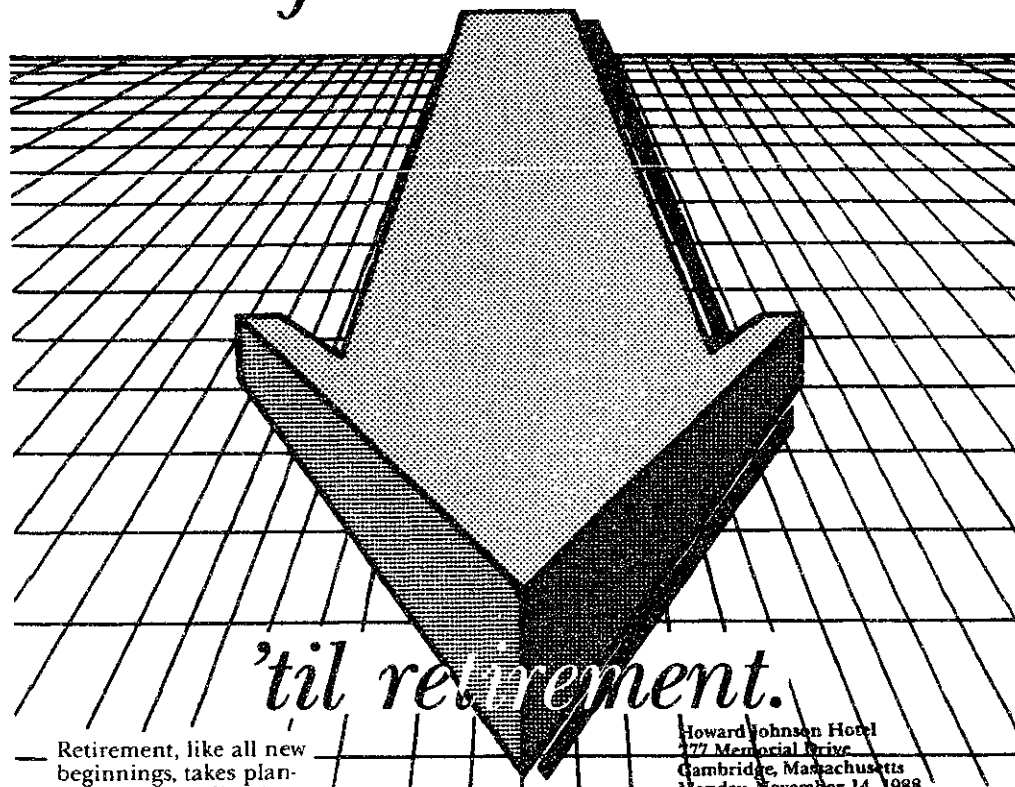
Avnon rejected the argument that Israel's occupation of the West Bank and Gaza Strip undermined its credibility as a democratic nation. Israel did not want to assume control of the hostile Palestinian population of those territories in 1967, and most Israelis do not favor annexing the territories, Avnon claimed.

The principal threat to Canada's stability in recent years has been the question of independence for Quebec, according to Brian Watson, head of the political section of Canada's consulate in Boston. But that issue was resolved at least for a generation in favor of Quebec's continued membership in the Canadian union by a 1981 referendum, Watson said.

The tradition in former parts of the British Empire was for the rights of citizens to be unwritten, Watson said — noting few counterparts of the US Bill of Rights. Several years ago, Canada, under the leadership of Pierre Trudeau, adopted a sweeping Charter of Rights and Freedoms — that included among other things a guarantee of equal rights for women. Some Canadians fear such constitutional mechanisms might open the way for domination on many legal questions by the judicial system, rather than by the people's elected representatives, Watson said.

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notices

Friday, Oct. 28

The Aga Khan Program for Islamic Architecture will be sponsoring a film called **The Battle of Algiers** on Friday, October 28 at 8:30 pm in the lower level of MIT Building E15. For more information, call (617) 253-1400.

* * * * *

On Friday, October 28 at 8 pm, Black Rose Lectures will sponsor a talk by George Katsiaficas entitled "**From the New Left to the Autonomes: 20 Years of Political Evolution of Europe**" in Room 9-150. For more information, call (617) 524-0781.

Saturday, Oct. 29

Super8 Sound of Cambridge is offering a **Super 8 Symposium** and other workshops on Film-making. The first is on Film Exposure and will be held on Saturday, October 29 from 11 am - 2 pm. The fee for this workshop is \$50. For more information about other workshops and costs, call (617) 876-5877.

Sunday, October 30

The seventh annual **Walk for Peace** will take place on Sunday, October 30. This is a walkathon to benefit organizations working on peace and justice issues. Festivities begin at 11:30 am and the walk begins at 1 pm. To join or for more information, call (617) 868-5259.

* * * * *

Will Gorbachev's Revolution Succeed — or Fail? Professor Robert Legvold of Columbia University speaks at a special Cambridge Forum on Sunday, October 30 at 3 pm in Winchester at the Unitarian Church, Main Street at Mystic Valley Parkway.

Monday, Oct. 31

Physical Education registration will be held from 7pm to 9pm in Rockwell Cage.

Tuesday, Nov. 1

There will be a seminar entitled "**Thematic Proto-roles and their Relations to Grammar and Cognition**" on Tuesday, November 1, 1988 at 7:30 pm in Room 34-401. David Dowty will be the guest lecturer.

Wednesday, Nov. 2

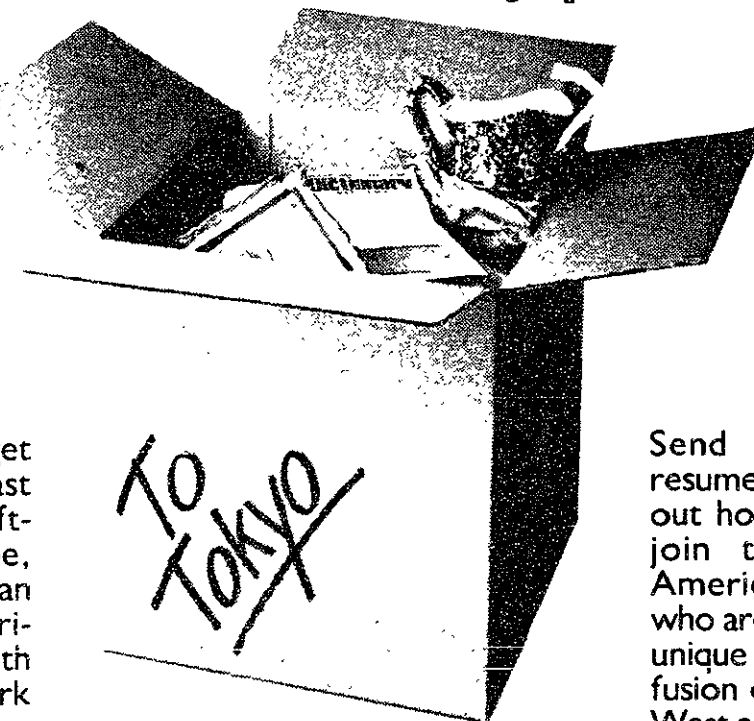
David Welch, coordinator for the Harvard University Project on Avoiding Nuclear War will give a lecture entitled "**From Nationalism to Internationalism**" on Nov. 2 at the Cambridge Forum, 3 Church Street, Harvard Square at 8 pm. For more information, call (617) 876-9644.

* * * * *

Nobel Prize winner Elie Wiesel will deliver a lecture entitled "**In Modern Times: Celebrating Peace**" on Wednesday, November 2 at 7 pm in Boston University's George Sherman Union Ballroom, 775 Commonwealth Avenue, Boston. For more information, call (617) 353-2224.

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- Comm. on Graduate School Policy
- Comm. on International Institute Commitments
- Comm. on the Library System
- Comm. on Privacy
- Comm. on Radiation Protection
- Comm. on Safety
- Comm. on Toxic Chemicals
- Comm. on the Use of Humans as Experimental Subjects
- Comm. on Visual Arts
- Commencement Comm.
- Community Service Fund Board
- Corporation Joint Advisory Comm. on Inst. Wide Affairs
- Equal Opportunity Comm.
- IAP Policy Comm.
- Medical Advisory Board
- Prelaw Advisory Council
- Womens Advisory Board
- Women Students Cooperative Board

If you are interested in serving on any of these committees, please pick up an application form at the Graduate Student Council office (50-222) during the hours of 1:30 to 5:00 pm., Mon - Fri. Interviews will be conducted on Monday, November 7 and Wednesday, November 9 starting at 5:30. If you have any questions, please call the GSC office at 253-2195.

For undergraduates interested in the new MINOR programs in Humanities, Arts, and Social Sciences (HASS) contact the appropriate field office:

<i>Anthropology/Archaeology</i>	20B-131	3-3065
<i>Economics</i>	E52-380	3-0951
<i>Foreign Languages</i>	14N-307	3-4771
<i>French</i>		
<i>German</i>		
<i>Russian</i>		
<i>Spanish</i>		
<i>History</i>	E51-210	3-4965
<i>Literature</i>	14N-409	3-3581
<i>Music</i>	14N-207	3-3210
<i>Political Science</i>	E53-460	3-3649
<i>Philosophy</i>	20D-213	3-4141
<i>Psychology</i>	E10-008	3-0280
<i>Science, Technology, and Society</i>	E51-128	3-0457
<i>Women's Studies</i>	14E-316	3-8844
<i>Writing</i>	14E-303	3-7894

For general information contact the HASS Information Office 14N-408, x3-4441.

sports

MIT heavyweight crew wins first place finish

(Continued from page 24)
with Kaminer coxing.

Coach Hamilton was very pleased with his crew's performance. "We want to go undefeated this fall," says Hamilton, referring to the victory at the Numerica's Cup race last Sunday and the Dartmouth Invitational race coming up in early November.

Han coxwains winning four

Paula Han '89 had the oppor-

tunity to coxswain a BRC women's championship four. The four oarswomen had returned a month ago from the Summer Olympics in Seoul, where they rowed in the US women's eight. After not rowing together since then, they came back to win their race by 52 seconds after only a single practice row the day before. "It was the smoothest row in my life," said Han. "It was a coxswains' dream come true — a chance of a lifetime. Basically, we started first and ended first."



Alice Biber '89 clears the ball during Tuesday's game vs Colby. See story page 24.

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Ray T. Powell/The Tech

Now pay attention! Adam Wagman '92 (left) and Eugene Gholtz '92 listen intently in 8.02 lecture on Tuesday.

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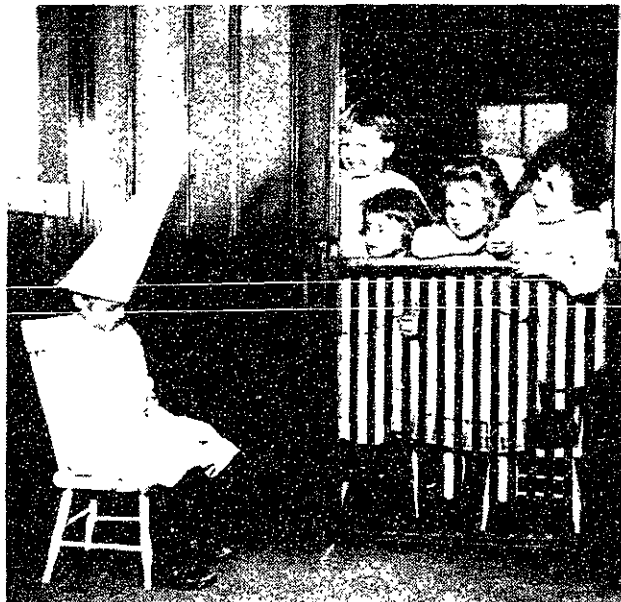
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sports

Women's soccer wins in final home game



Ray T. Powell/The Tech

Midfielder Eileen Murphy '89 chases after a Colby player in her last home game at MIT. The Engineers won 1-0.

By Kevin Hwang
Colby-Sawyer College women's soccer team might have had an easy victory in mind when they walked onto the field of Steinbrenner Stadium on last Tuesday afternoon. And why not? The Engineers have won only two games this season and have lost four in a row. Yet MIT proved that statistics do lie as they went on to beat Colby-Sawyer College by the score of 1-0.

This was a more than just another game to the Engineers. It was the last regular game of the season and for seven seniors, Alice Biber, Charlotte Biber, Sandy DeVincent, Tanya Jegeris, Eileen Murphy, Niki Pantelias, and Jessamy Tang, their last chance to play in front of the home crowd.

With all seven seniors starting, MIT came out hungry for a victory. MIT mostly kept the ball at the Colby-Sawyer's half by aggressive playing in the middle with crisp overlap passings. Yet the scoreboard didn't reflect the Engineers' performance as the first half ended scoreless. The Engineers failed to capitalize on several open net opportunities as the shots went awry.

Twenty minutes into the second half, the Engineers finally broke the scoring drought. On a feed from Alyssa Parker '91 at midfield, Alice Biber went storming past the defenders. As the goalie came out to stop her in a

last desperate attempt, Biber drilled the ball into the upper-right corner of the net.

With the lead, the Engineers' intensity level seemed to drop as Colby-Sawyer had several opportunities to score. But the MIT defense led by Charlotte Biber made the lead stick as they frustrated the Colby-Sawyer's offense by often catching them offside.

Women's Soccer

10/25 MIT 1 Colby-Sawyer College 0

After the game, coach Marti Kingsley of MIT extolled Alyssa Parker, Charlotte Biber, and players off the bench for their effort. "The goal by Alice is what we have been looking for in past three games. . . The way she took charge and scored set a good example for the team," she added.

"I regret not having been able to spend four years with the seniors but they are great bunch," said Kingsley, in her first year as the Engineers' head coach.

The Engineers improved their record to 3-11 with the victory. MIT will be going for it all in the New England Women's Eight Tournament which started yesterday and will be held through this weekend at Babson College.

The Week in Sports

Monday's Results

Men's Soccer

WPI (5-6-1).....1 1 - 2
MIT (6-8-0).....1 0 - 1
Scoring: MIT, Dave Coombs (Grant Schassner, Mark Bailey) 6:09; WPI, Rob DiGregorio (James White) 39:55; WPI, DiGregorio (Paul Hanlon) 82:49.
Saves: MIT, Chris Prince 4; WPI, Greg Humora 4.

Tuesday's Results

Women's Soccer

MIT 1..... Colby College 0

Women's Tennis

MIT 9..... Simmons College 0

Women's Volleyball

Springfield College 3..... MIT 2

Standings

Women's Cross Country

N.E. Division III Coaches' Poll

1. Southern Maine 79
2. Williams College 75
3. Smith College 64
4. Bates College 56
5. Bowdoin College 48
5. Colby College 48
7. Tufts University 32
8. MIT 20
9. Brandeis University 13
10. Fitchburg State 10

Football

Eastern College Athletic Conference Division III Poll

1. Plymouth State (7-0).... 197
2. Coast Guard (6-1)..... 176
3. Trinity (4-0-1)..... 158
4. Lowell (6-1)..... 133
5. Williams (3-1-1)..... 94
6. Tufts (3-1-1)..... 83
7. Nichols (5-2)..... 71
8. Worcester State (5-2).... 49
9. Wesleyan (3-2)..... 35
10. Norwich (3-4)..... 23½
11. SMU (5-2)..... 22
12. Mass. Maritime (4-3).... 14
13. Curry (4-3)..... 13
13. WPI (3-4)..... 13
15. Western Conn. (3-4).... 7½
16. Westfield State (3-4).... 3
16. Bentley (3-2)..... 3
18. MIT (3-1)..... 2

New England Collegiate Football Conference

	Conf	All	W-L-T	PF	PA
Merrimack	5-0-0	5-0-0	70	35	
Bentley	2-0-0	3-2-0	157	91	
MIT	3-1-0	3-1-0	71	46	
Assumption	1-4-0	1-4-0	40	102	
Stonehill	0-3-0	1-3-0	57	64	
Providence	0-3-0	0-3-0	19	54	

NECFC Players of the Week

Offense

WR Anthony Lapes '90, MIT

Defense

LB Rick Buellesbach '90, MIT

New England Women's Eight Conference Standings

Volleyball

	Conf	All
	W-L	W-L
MIT	7-0	25-4
Smith	5-1	32-2
WPI	3-2	21-10
Wellesley	3-3	23-7
Brandeis	2-3	21-9
Mount Holyoke	1-3	9-17
Babson	1-5	7-11
Wheaton	0-7	0-21

Field Hockey

	Conf	All
	W-L-T	W-L-T
WPI	5-1-0	16-1-0
Wellesley	5-1-0	12-3-1
Smith	4-2-0	8-9-0
Wheaton	3-3-0	5-8-1
MIT	2-4-0	6-7-1
Babson	1-4-1	6-6-1
Mount Holyoke	0-5-1	2-9-1

Soccer

	Conf	All
	W-L-T	W-L-T
Brandeis	4-0-2	11-2-2
Mount Holyoke	4-2-1	11-4-2
Wheaton	3-2-0	6-8-1
Smith	3-2-1	8-7-1
Wellesley	3-4-0	5-11-0
Babson	1-4-0	5-8-0
MIT	1-5-0	3-11-0

Compiled by Harold A. Stern

MIT crew finishes first at Head of the Charles

By Jay Damask

The MIT varsity heavyweight crew team rowed to victory in the Head of the Charles Regatta club eights race last Sunday. The MIT crew won the three mile race by one-half second, defeating 35 other teams including rivals from Boston University and Northeastern University.

The junior varsity crew, racing in the same event, took eleventh place, guaranteeing them an entry in next year's regatta. "It was an outstanding performance of both the varsity and JV," Coach Gordon Hamilton said. "Both crews rowed a very solid race."

The tight steering of coxswain Alex Min '91 helped the varsity to pass three other crews throughout the course of the race. "Every bouy was right along side of the boat," Rick Franklin '89 explained.

The Engineers passed the first crew at the one mile mark and the second crew at two miles. However, with less than a mile to go, Harvard Law School would not give way to the charging Tech crew. HLS forced MIT into the Elliot bridge where two and four man, Josh Duke '90 and Steve Payne '89, hit their oars. HLS was disqualified for not yielding to MIT and causing the hit. But the Engineers recovered quickly and passed the Harvard boat and flew to the finish line.

"We would have won by more if HLS had given way," Hamilton said. MIT finished the three-mile course with a time of 16:27.9, 0.5 seconds ahead of BU and three seconds ahead of NU.

The varsity team is: stroke Chris Neils '89, Franklin, Jay Best '89, Brian Vajda '90, Payne, Dave Haldeman '91, Duke, Mike Plusch '91, and coxswain Alex Min '91. Especially impressive was the presence of the three sophomores in the varsity boat.

"The sophomores pulled hard. They are very strong and they earned their positions in the boat," Franklin said.

JV captures eleventh

The junior varsity had "one of the best rows we've had together. The head wind was not a problem and the rating stayed between 29 and 30 strokes per minute the whole way," said coxswain Rachel Kaminer '89.

The race strategy was to row at 80 percent for the first mile, at 90 percent for the second mile, and full pressure for the last mile. The JV passed two boats in the race. The first boat was passed under the Weeks bridge. "First we took a seat every two strokes and then once we were through the bridge we took a seat every one stroke," Kaminer explained.

The second boat the JV passed was rowing with Harvard blades. "Once I told my crew that we were passing Harvard blades the boat jumped forward," Kaminer said. The JV finished eleventh with a time of 17:01.

The JV team is: stroke Roger Knapp '91, Eric Burgess '90, Jeff Myjak '91, Tom Urban '89, Bob Martin '91, Mike Petro '89, Ed Munich '91, Chuck Sindelar '91, (Please turn to page 23)

Sports Update

Pair of Beavers players of week

Wide receiver Anthony Lapes '90 and linebacker Rick Buellesbach '90 have been named players of the week in the New England Collegiate Football Conference. Lapes hauled in six passes for 126 yards and a touchdown, the second best single game receiving yardage in MIT history. Buellesbach had seven tackles, two interceptions, a fumble recovery, and a pass broken up in the Beavers' 14-13 win over Stonehill College last weekend. MIT is ranked 18th in the latest Eastern College Athletic Conference poll, the first time the Beavers have been included.

Shooters chalk up personal bests

Two members of the MIT pistol team shot personal bests last weekend in a loss to Army and a win over Rensselaer Polytechnic Institute. Seniors Ken DeCanio and Matt Machlis scored 544 and 539 respectively in the air pistol category. Machlis also earned a personal best 515 in the free pistol competition.

Kelley first at tri-meet

Sean Kelley '90 was the first-place finisher in last weekend's triangular meet with Williams College and Tufts University held

at Williams. Kelley ran the 4.88 mile course in 25:57. Mike Piepergerdes '92 took third in the 29-person race.

Women's X-country completes 7-1 season

The women's cross country team recently completed a 7-1 season and is currently ranked eighth in the latest New England Division III Coaches' Poll. For the fourth consecutive year the Engineers improved their finish by one place in the New England Women's Eight Championship with a second-place finish.

Compiled by the MIT Sports Information Office

Upcoming Home Event

Saturday, October 29

1:00 Football v. Providence College