

Dave Martin

User-operated copying machines like this are highly restricted at Boston University and Wellesley College, two schools whose policies are better-prepared than MIT's for new copyright legislation now under consideration.

## MIT least ready for copy law

By Thomas Mayer

While MIT librarians and photocopying officials worry about pending legislation which would restrict the duplication of copyrighted materials, other Boston area schools are better prepared to deal with the threatened restrictions.

Unlike copying centers at MIT and Harvard University, which duplicate copyrighted material without restrictions and would therefore be hard hit by strict legislation, the Graphic Arts equivalents at Boston University and Wellesley College will not touch copyrighted materials without the prior consent of the publisher.

Robert D. Taylor, Manager of BU's Print Shop, says he "closely controls" the duplication of three million pages a year, and has files full of publishers' letters permitting the reproduction of their materials.

Although such journals as *The Chronicle of Higher Education* have claimed that regulation of photocopying might be prohibitively expensive, Taylor said that no publisher has yet charged BU for

photocopying privileges and the cost of getting permission to duplicate has run to about "ten cents a letter, plus labor." While Taylor runs the graphic arts service at BU and is therefore not responsible for all photocopying at BU, he handles everything involving ten copies or more. He said that requiring publisher's permission was "one of the things I did when I first came here." Prior to this regulation, Taylor said that students and faculty "reproduced whole

books."

Wellesley College's Director of Central Duplicating William Biggart also required permission of the publisher before his copycenter duplicates any copyrighted material. He said he has "a whole file drawer full" of such letters, and like Taylor, finds that the expense of obtaining permission and enforcing copyright rules strictly is minimal. Before he put a man at each photocopying machine to ensure

(Please turn to page 4)

## 'Activity fee' studied for undergrad tuition

By Mike McNamee

A system of separating support costs for student activities from general tuition charges to students is being studied by the Dean for Student Affairs as part of the budgeting process for the next fiscal year.

A committee of Deans' Office and student activity personnel has been formed, at the request of Chancellor Paul E. Gray '54, to examine alternative ways of making "activity fees" an explicit part of the tuition bill each student receives from the Institute.

The committee is in "a preliminary data-gathering stage," examining the experience of other schools and trying to get rough estimates of what such an activities fee would include at MIT, according to Associate Dean for Student Affairs Robert Holden. The group, which has been working since "about the end of July," is expected to make an informal recommendation by the end of this month, Holden said.

"As of yet, we don't know what such a fee would include,

how much it would be, or even whether or not we would want to recommend it for the Institute — it's all that preliminary," Holden said. "We're trying to gather facts, to make a rough cut at it, and to get a grip on some of the issues that the whole question raises."

The group's work has included visits to and reports from other schools which have such a separate fee, comparing their situations with MIT, Holden said. "The difference between the systems are tremendous — it's really wild," he said. "We're seeing how MIT differs from those schools, and how much a system would have to be tailored to fit to MIT."

One important distinction between the Institute and many other schools, Holden said, is that "they tend to fund the big things, while we fund the little things. Things like lectures and media are usually supported by the school at most other places," he explained, "but here, those things tend to be self-supporting, while the little activities are heavily funded."

"We all feel that MIT is unique in many ways," said Assistant Dean for Student Affairs Jon Hartshorne, "but we're trying to find the specific ways in which the Institute is unique, especially with regards to activities."

The committee is also trying to figure the dimensions of such a fee, using the budget if the Finance Board as a rough estimate, Holden said. "Forrest Krutter '76, chairman of the Association of Student Activities) is figuring the FinBoard budget for the last ten years as a percentage of undergraduate tuition to give us an idea about what the fee might be," Holden said.

Holden stressed, however, that no decision had been made on what such a fee, if implemented, would include. "We don't know if it would stop at FinBoard, or if it would include Student Center and Walker (Memorial) costs, or how far it would go," he said. "The implications of the question are never-ending unless you limit what you're talking about, and so we're using FinBoard as a first limit."

FinBoard allocations, money used by the Undergraduate Association and the Activities Development Board and other activities' funds are mainly budgeted from the Dean for Student Affairs Office, which is largely supported by tuition funds. But

(Please turn to page 7)

## NSF peer review under attack

By Mike McNamee

Congressional critics of the National Science Foundation have introduced legislation to correct what they call "a consistent pattern of bias" in the Foundation's funding of research.

Rep. John B. Conlan, R-Ariz., and Senator Jesse Helms, R-N.C., have introduced identical bills which would modify and regulate the system of peer review used to pass on research proposals.

The proposed legislation would require the Foundation to establish a standard procedure for picking reviewers for proposals, to make copies of all comments and opinions expressed by reviewers available to grant applicants, Congress, and the public, and to establish a formal appeals procedure for applicants whose proposals have been refused.

These measures, if made law, would have a significant effect on the informal and largely-anonymous peer review procedures now used by the NSF — to the detriment of the Foundation's efforts, in the view of many observers.

The Conlan-Helms legislation is given little chance of passage in the current Congress. But the introduction of their bills, and the debate that underlies them, "puts a figure on what's going to be a national issue very, very soon," according to one science-policy expert — the validity of peer review as a means for establishing priorities for scientific research.

On one side of that question are critics who, like Conlan and Helms, argue that peer review results in an "old-boy network" which freezes out valuable research efforts from lesser-known scientists at smaller, less-prestigious institutions. Pointing to statistics that show NSF grants to be concentrated among a few states and relatively few institutions, these critics feel that NSF

is failing in its mandate to seek out scientific talent across the country.

"Figures from NSF itself show that more than one-third of their funds go to just 16 institutions," George Archibald, a Conlan legislative Assistant, told *The Tech*. "One-third of the grants go to three states — three times the number that go to 22 other states combined. The 16 top institutions get more than the combined grants given to 660 other institutions in 40 states."

These figures led Conlan to state on the floor of the House that "a small group of preferred institutions" formed "an elite corps heavily represented on all review panels," which "distorted" the review process and led to a "consistent pattern of bias." "The 15 universities with the most faculty members on review panels received more than half the funds granted to schools," Conlan stated.

Rep. Conlan feels the only way to break this kind of concentration up, Archibald said, "is to make peer review completely open — to make reviewers stand by what they say both to the applicant and to the Congress and public." To do so, Conlan's legislation would require reviewers to be identified with their comments, which would be made public upon demand.

Other observers of the peer review system — including many at NSF itself — feel that the principle of confidentiality on which peer review is based is essential to the system. "Peer review, when it works, is the only feasible way to establish priorities for research," MIT Professor Frank Press, a member of the National Science Board which oversees NSF, said. "And I feel the best way to degrade that system, to foul it up, is to make the system open — to identify reviewers. That just leads to bland reviews which

aren't useful in evaluating whether or not the research is worth doing."

Press said that "human nature" would lead to a reluctance to fully review proposals if they were made open. "If you have scientific colleagues, and you want to be able to work with them, you might not want to criticize their work to their faces," he explained. "I think that, in the interests of setting priorities, such human frailties

(Please turn to page 7)



Dave Schatter

LSC recognized its Megaperson — the 1,000,000th person to attend an LSC movie since the movie series began back in 1951 — Friday night with a gala bash that included the grand prize of free admission for two to all LSC movies for the rest of the academic year (total value: about \$60). There was just one hitch — Al Wankel '76, the Biology major from Baker House who won the coveted award, is graduating in January and won't be able to enjoy two-thirds of his prize. Better luck next time.



## Panel analyzes Nixon tape gap

Three electronics and acoustics experts—who made it very clear that technology — not politics — was their field—explained the technology — but not the politics — of the controversial 18.5 minute Nixon-tape gap for a Kresge audience last Thursday night.

Richard Bolt, chairman of Bolt, Baranek and Newman Thomas G. Stockham, and Mark R. Weiss, all members of the six-man expert panel appointed by US District Court Judge John J. Sirica to examine the Nixon White House tapes, explained their hours of tedious electronic detective work in detail to the crowd.

But they refused to go beyond the technology and enter the politics — the “who did what to whom?” questions — in their talk.

Bolt said he tried to talk his way out of serving on the panel — “I started out by trying to convince them I wasn’t the one they wanted;” he said — but

found that his service was rewarded when the tape with the 18.5 minute gap was discovered.

That tape, Bolt said, was so important that it completely

eclipsed the other tasks Sirica had assigned the panel. “Like sex, if it’s in first place, whatever is second must be way behind,” he said.

### HUMANITAS: AN EVOLVING PERSPECTIVE

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Thursday, October 23  
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### Michelangelo and the Metaphor of the Body

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The Class of '78 ring selection committee will hold meetings on four Sunday evenings in October and November in order to decide upon the design of the ring and to select the company from which the rings will be purchased.

The meetings will take place on Oct. 26 and Nov. 2, 16, and 23, at 8pm in Room 400 of the Student Center.

All sophomores are encouraged to attend. However, Ring Committee Chairman Jose Cisneros stresses that students should make an effort to attend all four meetings, opposed to just one or two, as “a different company will be represented at each meeting and all ideas must be heard into order to make a decision.”

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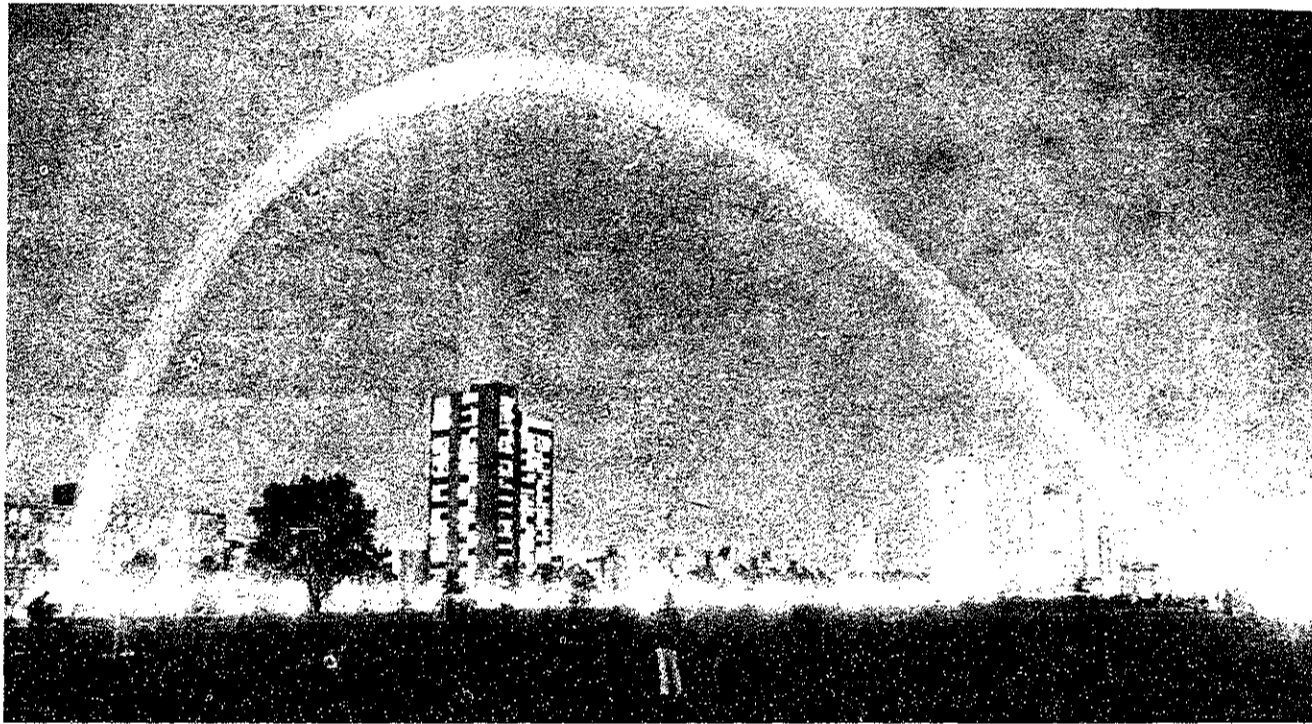
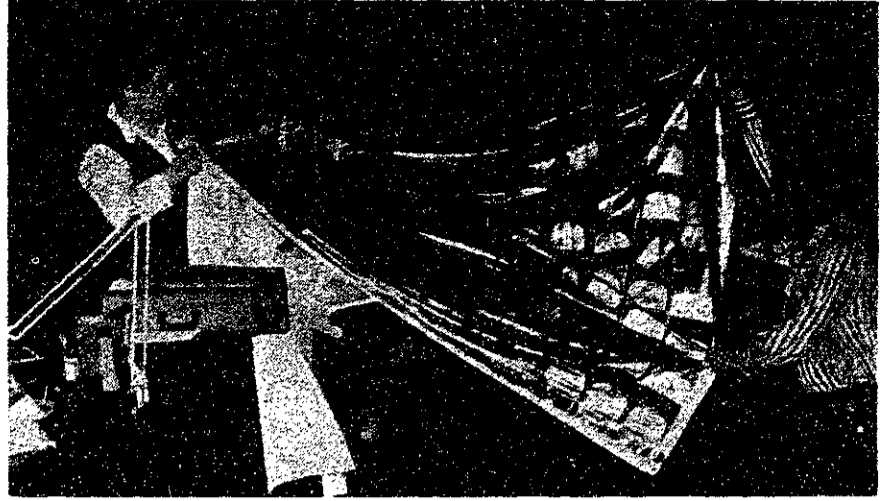
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# ART TRANSITION

Neon rainbows floating over the MIT tennis bubble? A cello made of televisions? Photocopied fabric?

They're all displays that were a part of Art Transition, a massive artists' conference held at MIT last week. The conference, funded by MIT, the National Endowment for the Humanities, and private donations, drew hundreds of participants who paid \$50 to \$85 to attend the series.

*Photos by Roger Goldstein*



# ART TRANSITION

# MIT still trying to sell Northgate

By Eileen Mannix

Acknowledging that the Northgate apartments have become a severe economic liability, MIT officials are currently trying to divest the Institute of these properties.

Northgate is a series of apartments in Cambridge which were originally purchased by MIT in an effort to help fill the need for off-campus housing for faculty and staff members.

However, these apartments were not of sufficiently high quality to attract faculty and teaching staff members, and never became a valuable housing

## Schools ready for copy law

(Continued from page 1)

compliance with copyright law, there was "a fantastic amount of breached copyright involved. We got textbooks virtually entire to reprint." Biggart had an additional incentive to watch his machines, since the "honor system" of charging for photocopying was costing Wellesley some 100,000 copies per year.

On the other hand, Harvard University's Central Copy Service is much like Graphic Arts in that approval of the publisher is not required for duplication of copyrighted material.

When asked about permission to duplicate material, Harvard Central Copy Service's Assistant Manager Walter Sloan said "we would know nothing about. We assume that if a person has the material he has permission to copy it." The Central Copy Service duplicated one and a half million pages in September, and Sloan estimates that most of the annual output of over 10 million copies concerns copyrighted material.

The difference between copy-centers is curious because the libraries of the four schools follow identical policies. Neither Widener's Photocopying Service nor MIT's Microlab, nor the library photocopying services at BU or Wellesley will make multiple copies. Harvard's John Frazier, Head of Widener's Photographic Services Division, said emphatically "hell no," multiple copying "is not done at Widener Library." When asked if it was done elsewhere at Harvard, he said it was "none of my damn business."

resource for MIT, according to Kenneth R. Wadleigh '43, Vice President of the Graduate School and a member of the Board of Directors of Northgate.

The tenants now at Northgate are comprised of MIT students, personnel, and persons not affiliated with MIT.

The apartments have not been much of an alternative for students either, however, because they are too expensive. According to Wadleigh, "inflation increased at a much higher rate than the students' incomes." Student tenants are not eligible for the benefits of rent control, Wadleigh said, while persons not affiliated with MIT are eligible. Because of this, MIT was "forced into the role of landlords" and was not able to meet maintenance costs without raising the students' rents, he added. Wadleigh recalls that this was not a popular measure and resulted in a number of lawsuits.

Northgate had been planned to eventually become a fairly extensive group of apartments, but these plans never really got off the ground, Wadleigh said. The only properties in the project purchased by MIT were older houses and houses already under construction. Plans were made for building some new apartments, but these were never carried out.

Wadleigh sees the project as a "good idea that went awry" due to a variety of reasons, the majority of which were beyond the Institute's control.

About 50 per cent of the properties have already been sold. Wadleigh could not say when the sales will be completed.


He did say that "inflation continues, rent control has not yet been repealed, and there is still no answer to the housing shortage for faculty, staff, and graduate students."

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# MIT 6th in federal aid funds

By Margaret Brandeau  
MIT may be the number one engineering school in the country, but it ranked number six in the receipt of federal aid to colleges and universities in 1973-1974.

According to a study recently released by the National Science Foundation (NSF), of the total \$4.4 billion granted to US universities, Harvard University received the fourth largest share — \$72.5 million — while MIT was sixth with \$69.5 million.

These figures do not include student loans or aid programs.

The University of Washington topped the list with its share of \$81.9 million government dol-

lars, while the University of California at Los Angeles was second, with \$73.7 million. The University of Wisconsin at Madison was third with \$73.6 million.

The amount reported by the NSF given to MIT does not include \$86 million given to the Draper Laboratories, which were divested from MIT in 1973.

Sixty one per cent of the funds granted to colleges went for academic science, the NSF reported. MIT used \$67.74 million or 97.4 per cent of its federal aid for academic science, mostly research and develop-

Of the academic science money granted to MIT, \$61.74 million went to research and development, \$1.67 million to the research and development plant, \$19,000 for facilities and equipment for instruction, \$4.35 million for fellowships and traineeship and travel programs, \$372,000 for general support and \$228,000 for other science.

MIT spent \$1.8 million for non-science purposes.

The funds for academic science granted to colleges were up 11 per cent to \$2.7 billion. The NSF attributed this increase to the release of funds that had been impounded by the White House.

Millions of dollars of Federal funds

University	Millions of dollars of Federal funds
University of Washington	81.9
University of California (Los Angeles)	73.7
University of Wisconsin (Madison)	73.6
Harvard	72.5
University of California (San Diego)	71.1
MIT	69.5
University of Minnesota	68.1
Howard University	67.0
Stanford University	66.8
University of Michigan	63.9

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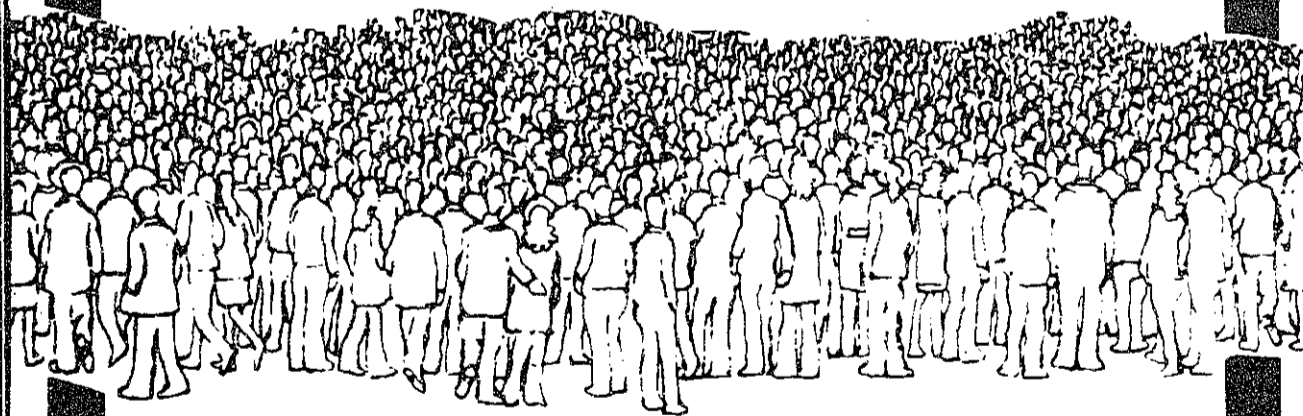
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# NOTES

\* MIT Seniors who wish to apply for a Danforth Foundation Fellowship for 1976-77 should submit an informal application consisting of a one or two-page essay about his or her background and career plans for college or university teaching to Assistant Dean Jeanne Richard, Room 3-136 by Oct. 22, 1975. Personal interviews for applicants will be held at MIT on Saturday, Nov. 1, 1975 in the Graduate School Office (Room 3-136). For further information, please contact Dean Richard at x3-4869 or stop by 3-136.

\* Sandor Vegh, one of Europe's foremost violinists, will give a solo concert of works by Bach on Wednesday, Oct. 22, at 8pm in Kresge Auditorium. The concert is sponsored by the Music Section. The violinist will also be a soloist for the MIT Symphony Orchestra concert on Saturday, Oct. 25. In addition he will conduct two master classes in chamber music, Tuesday, Oct. 21 and Friday, Oct. 24, open to students at MIT. For further information on the classes, call the Music Office, x3-5210.

\* Claims kits have been sent to students who have the optional commercial hospital and accident insurance coverage. Any student who elected the extra insurance coverage but has not received a kit should contact Miss Norma Loomis, Rm 10-303 (x3-4371). These kits are for use only when the insured student is seeking reimbursement for expenses covered under the optional hospital and accident insurance.

\* Geoffrey Barraclough, Chichele Professor of Modern History, University of Oxford, and Fellow of All Souls College, will speak tonight in the Mezzanine Lounge of the Student Center at 7:30pm. The topic is "The World Economic Crisis." The speaker has authored the major essays on political economy in the recent issues of the *New York Review of Books*. The Talk is the first of three talks on political economy presented by the SACC Social Issues Forum.

\* Discount tickets for the Boston Symphony Orchestra Oct 29 rehearsal are on sale at TCA. The program will feature The Saint-Saens Organ Concerto No. 3, with Anthony Newman, organist.

\* A career seminar entitled "Why Get an MBA?" will be held Tuesday, Nov. 4, at 4pm in Room 3-133. Speaking will be Harold R. Metcalf, Dean for Alumni and Student Affairs at the University of Chicago Graduate School of Business.

\* A special introductory lecture on the Transcendental Meditation Program by a trained teacher of meditation, will be held on Thursday at 7:30pm in the Bush Room 10-105.

\* The newly designed Art Gallery of the Boston University School of Visual Arts, 885 Commonwealth Ave., Boston, will open today with the first of five major exhibitions to be presented throughout the school year. The first exhibition, "Selections from the Student Exhibition," will feature the work of undergraduates and recent graduates in the fields of Painting, Graphic Design, and Sculpture. The selected student works will be on display through Nov. 2.

\* Association for Women Students (AWS) will sponsor the Reverend Constance Parvey, speaking on women in the ministry, this afternoon at 4:30 in Room 3-310.

\* The Black Rose/Black Circles Lectures will present Arnold Bennett, speaking on "The Montreal Citizens' Movement," Friday night, October 24, 15 8:00 in Room 9-150.

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# Research peer review questioned by Congress

(Continued from page 1)  
should be kept out of evaluations."

Other defenders of the peer-review system discounted Conlan's arguments about "elite institutions." "Our study of where grants are being made show that the distribution is amazingly fair," Jack Renierie, a spokesperson for the Foundation, said. "Rep. Conlan is entitled to his opinions, but if you take into account the number of

applications coming from the institutions as well as the number of grants being made, they all cluster very much around an average number."

Critics of the system ignore "a crucial fact - the tremendous competition for talent," Renierie said. "Top-flight people tend to congregate with other top-flight people, and the institutions they gravitate to then tend to attract more people and more money," he explained. "Taking that into consideration, I think it's reasonable to expect top proposals to come from a limited number of institutions. And if you want top-flight people to review proposals - you turn to these same people and same institutions."

\* Adrienne Rich, winner of the 1974 National Book Award will give a reading of her poetry Sunday, Oct. 26, at 8pm in Sanders Theatre, Harvard University, to benefit *The Second Wave* a magazine of the new feminism. \$1.50 donation requested.

\* Rep. Robert Drinan (D-Mass.) will speak in the Ames Courtroom at the Harvard Law School at 8pm on Friday, Oct. 24. The talk is sponsored by the Harvard Law School Forum. Open to the public. Tickets \$1.50.

# Activity fee under study

(Continued from page 1)  
specific statement of the amount of tuition spent on activities has never been made on student billings before.

Separating student activity fees from general tuition has been used at other schools to focus attention on such fees and, in some cases, has led to pressure to make activity fees non-mandatory. But Dean for Student Affairs Carola Eisenberg stated that MIT's consideration of activity fees "has absolutely no indication of such a motivation." "I have been told nothing at all that would lead me to think that this would hurt activities in any way, and I would strongly oppose it if it were going to," she said.

And Holden, while admitting saying he didn't know the motivation behind Gray's request, speculated that a separate

activities fee might serve as a "defensive measure" to protect student activities. "My own feeling is that by making this explicit, it might be a way of maintaining the level of support for activities by making it more public," he explained.

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# Concord edges rugby 'A', 12-10

**By Charles Cox**  
The MIT rugby squads braved a driving rain to come away with a split against Concord Saturday afternoon at Briggs Field. The 'A' squad lost a seesaw battle to the New Hampshire side, 12-10, but the 'B' club registered a 20-3 victory.

In the 'A' game, the Engineers drew first blood on the cold and muddy pitch as Rusty Saunders '77 crossed the Concord try line early in the first half to give MIT a 4-0 lead.

The Engineers held Concord scoreless until the visitors ran

back the second half kickoff for a try. Concord was to score again to take an 8-4 lead, but Jim Caruthers '75 bulled his way into the opponents' in-goal to tie the score midway through the period.

John Kavazanjian put the Engineers in front by converting the try, but Concord drove downfield for one last score, pulling out the win, 12-10.

By contrast, the 'B' squad had a field day against Concord. The ruggers held a 6-0 lead at halftime on two penalty goals by Tom Bryant G.

Early in the second period, Concord converted a penalty kick, but MIT broke the game open with three consecutive tries. Charlie Mazel G, Gabor Szakacs '76, and Bill Greisser '77 scored the tries, with Bryant converting one. In building MIT's lead, Szakacs suffered a shoulder injury which put him out of the remainder of the game. MIT's 14-point burst closed out the scoring to give the Engineers a 20-3 win, their first of the season.

## Sports

### Soggy Engineer harriers second at Williams meet

**By Dave Dobos**

Competing in rainy conditions, a talented Williams cross country squad thrashed MIT and Tufts in Williamstown, Mass. last Saturday. The host team's low score of 26 captured the meet, with MIT (47) and Tufts (65) following.

Frank Richardson slogged to his fourth straight dual meet victory of the season over the rain-soaked, 4.8-mile course. The only runner to break 26:00, Richardson's 25:46 was good enough to win by 125 yards.

Williams harriers placed third, fourth, fifth, sixth, and eighth in an excellent display of team running. Sophomore Chris Svendsgaard, the Engineers' second man, could only dent the pack, coming in just ahead of their fifth man for seventh place. Steve Keith '77 was the next Engineer finisher (11th place). Jeff Baerman '76 and freshman Tom Clark (16th) rounded out the scoring for MIT.

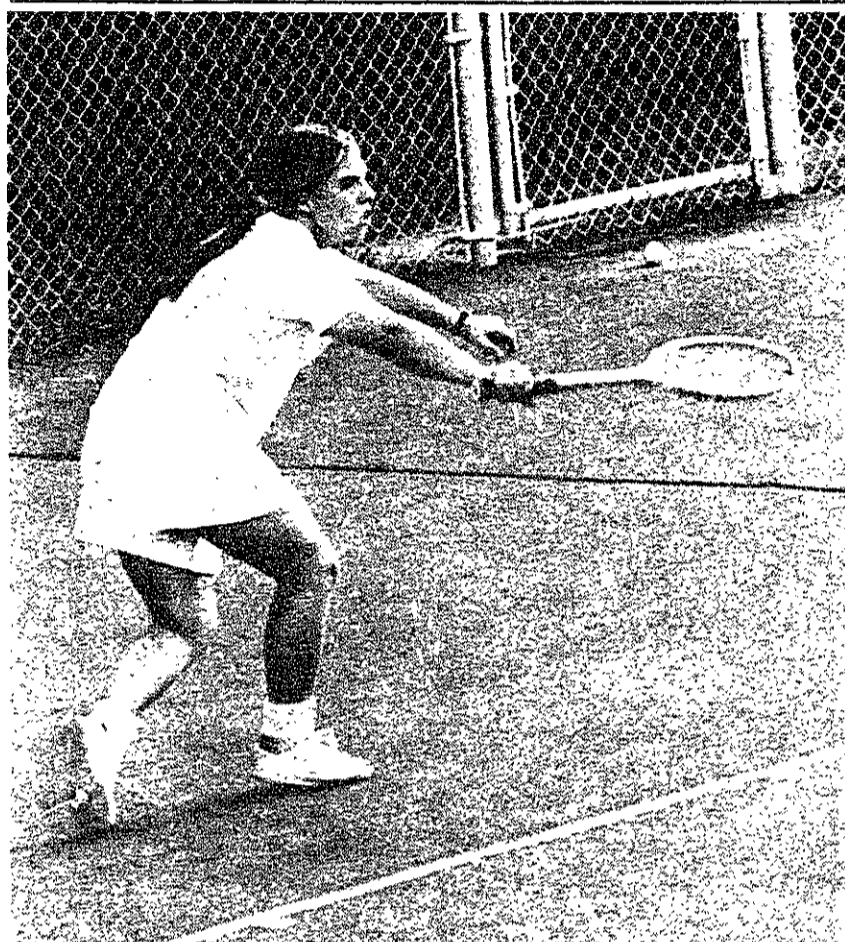
The trail, most of which is run on a golf course, had been completely saturated by over 24 hours of continuous rainfall. The path traversed a stream that had become swollen with rainwater. All the runners got wet, especially Svendsgaard who fell completely in the brook. The varsity runners taped their shoes to their feet so as not to lose them.

The water standing on the grass created a suction, and several of the JV runners lost their shoes during their race. Among them was Mark Schwartz '79 who ran the last 2½ miles of the course barefoot — and still finished 12th.

The split moves MIT's dual meet record to 6-3. Although not as good as last year's mark, it is nonetheless one of the Engineers' most successful. The harriers are running at about the same level as they were last year at this time.

The JV squad also defeated Tufts while losing to Williams. The host school won with 29 points. MIT followed with 39 and Tufts' 60 trailed. MIT's top three runners finished within two seconds of each other. Rich Allen '79, Jim Walton '76 and Rudy Bellinger '79 placed fifth, sixth and seventh, respectively, over the 3½-mile course. Jack Reeves '77 (ninth) and Schwartz' barefoot 12th made up the rest of the Engineer scoring five.

Today, MIT competes in the Greater Boston Championships and Saturday they face Brandeis, Boston University, and Bentley. Brandeis is currently rated third in the nation for Division III colleges. Both meets are at Franklin Park.



Mark James

Chris Vogdes '78, playing first singles, has helped lead the women's tennis team to a 2-2 mark this fall. Shown in action against Boston State, Vogdes has a 2-2 match record, including wins over Regis and Tufts.

## Sporting Notices

Team entries for IM Basketball must be filled out and returned to the IM Basketball mailbox in W32-121 by 5:00pm Thursday. Rosters must be submitted by 5:00pm Wednesday, October 29.

Prospective officials must attend the referee clinics, to be held tomorrow and Thursday at 7:30pm in room 1-203. Captain clinics will be held on Monday, October 27 and Thursday, October 30 at 7:30pm in 1-203. Each team must send a representative to one of these clinics.

\* \* \* \*

Women's swimming team practice begins Monday, November 3, at 4:00pm at Alumni Pool. All interested in competing for the team should attend the first practice.

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