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in the news

INSIDE

Despite the morbid titles and subject matter, *Death on the Nile* and *Death of a Salesman* prove to be lively performances.

p6

An interview with professor Augustus Witt of the Department of Materials Science and Engineering inaugurates *The Tech's* new series of faculty profiles: "Chalk Dust."

p9

Many MIT crews placed in the top ten in their events in Sunday's Head of the Charles Regatta. The women's four did especially well in missing first by less than a second.

p11

The varsity soccer team was two for three last week. The team completely dominated Lowell and Holy Cross for victories. Sandwiched between these two games was a tough double overtime 1-0 loss to BC.

p12

ERRATA

A three fifths majority of those present at a faculty meeting is required to pass a motion, not three fourths of those present as reported in last Friday's article on grade redefinition. *The Tech* regrets the error.

WEATHER

Some lingering cloudiness with possible drizzle early this morning but clearing later in the day. Fresh northwesterly winds will keep things cool; highs in the middle 50's. Very cool tonight with lows in the upper 30's. Warmer and sunny Wednesday with highs in the middle 60's. Lows Wednesday night near 50.

Looking ahead: some high clouds moving in late Thursday in advance of another front. Chance of rain decreasing to 20 percent by this afternoon, 0 percent tomorrow, but 30 percent by Thursday night.

Annual Report examines new laws

By Bruce Kaplan

Underlying much of the text of the "Report of the President and Chancellor" released last Wednesday are potentially devastating results of some new Federal regulations.

Perhaps the most significant of these regulations are the changes in the Immigration and Nationality Act, revised January 1, 1977. This law severely limits the ability of the Institute to recruit foreign faculty and research staff. Before an immigration visa is issued by the US Department of Labor to allow the person to work, the Institute must first show that the candidate is better qualified than any US citizen. This will greatly decrease the diverse profile and international character of MIT's faculty.

A second set of new Federal regulations concerning the treatment of laboratory animals has necessitated the construction of a new facility on Vassar Street, which was completed this year, and extensive renovation of existing facilities to take place over the next four years. The total cost of these actions is not reported, but the National Cancer Institute is paying \$1.5 million toward the projects.

Under the 1978 Amendments to the Age Discrimination Act, effective January 1, 1978, no employer may require a person to retire prior to the age of 70.

It is anticipated that the number of openings for younger faculty members will decrease because of the regulation.

Definition by the Office of

Management and Budget of indirect costs, and their subsequent reimbursement for Federal projects carried out by the Institute may cost in excess of two million dollars in revenues during the upcoming year.

While Federal legislative actions may be detrimental to the school, a Federal judicial action has spurred the Institute to participate in a positive action aiding the community. The Phase II desegregation program ordered by Federal Judge Arthur Garrity prompted MIT, together with the

Wentworth Institute and the Massachusetts Port Authority, to establish the Mario Umana Harbor School of Science and Technology. The Umana School, which this year achieved full capacity, has become the most popular of Boston's nineteen magnet schools.

The Whitaker College of Health Sciences was established as a joint MIT-Harvard venture during the past year. The college will be interdepartmental. Possible locations are being explored in the east campus area for the

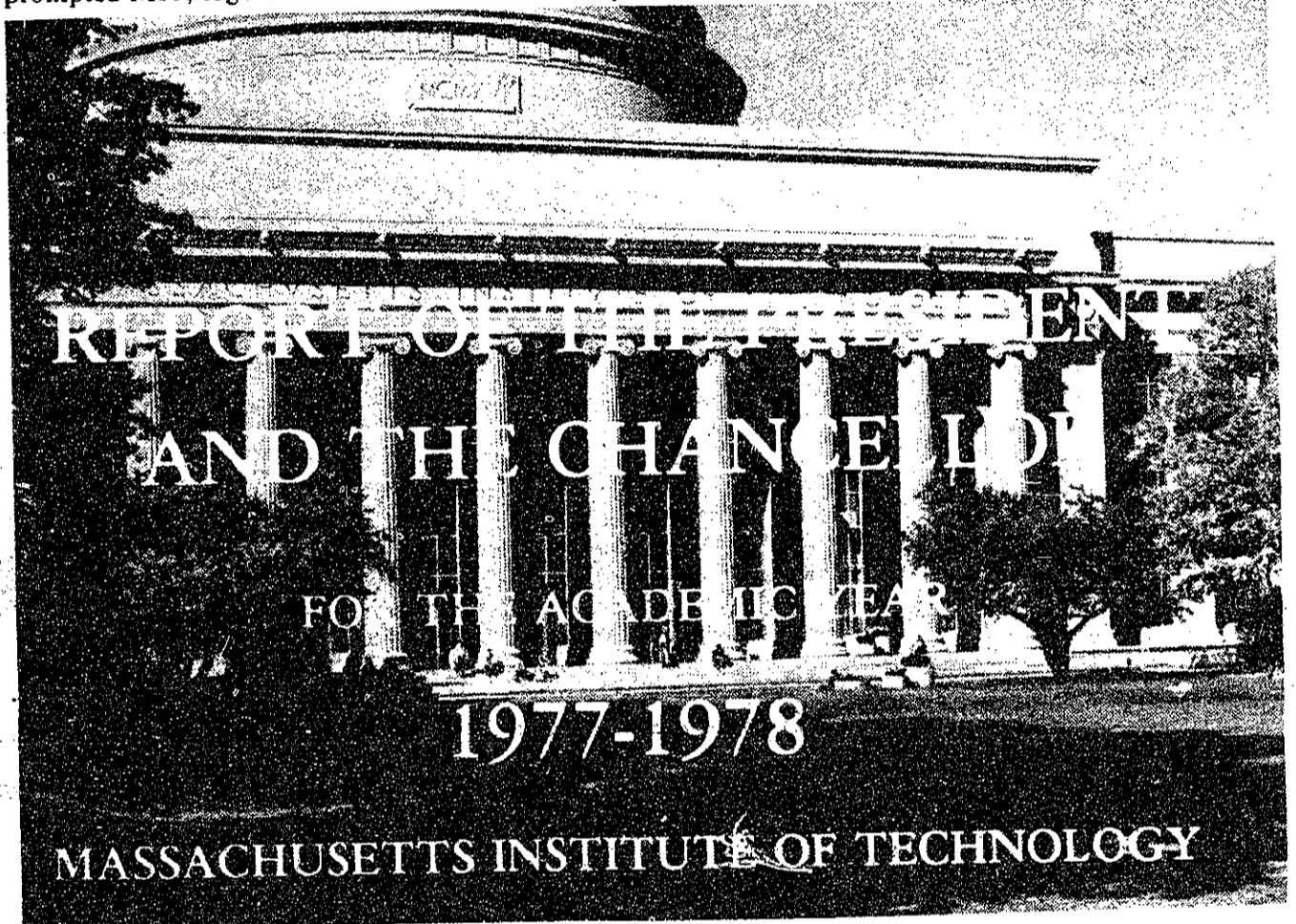
school.

Other points of interest:

- The Biology Achievement Test will now be allowed as an alternative to the Chemistry or Physics Achievements previously required for admission.

- No replacement for Dean for Student Affairs Carola Eisenberg will be made at least until September 1979.

- Also, due to "substantially" increased enrollment in the School of Engineering, its budget has also been increased.



GSC meets to discuss grad grievances

By Brian Aiello

The Graduate Student Council is currently without either a president or vice-president, evidencing a basic lack of organization and leadership. The only officers on the Council are the treasurer, Richard Celotto, and the secretary, Peggy Hunter. Election of officers was scheduled to take place last Thursday, but it was postponed until the GSC's November meeting.

Last Thursday evening, October 19, the Graduate Student Council met to discuss graduate

student grievances to be presented before the coming meeting between the MIT Corporation Visiting Committee on Student Affairs and the GSC. These hearings were the first open hearings between the Visiting Committee and graduate students.

The agenda of last Thursday's GSC meeting included concerns such as financial aid, tuition, housing, leisure time, and problems unique to women, minorities, and foreign students.

Several graduate students at Thursday's meeting proposed that tuition be reduced for

graduate students working only on a thesis, since much of the research done by graduate students is funded by outside organizations and the government.

Some foreign students complained that they are not able to come to MIT and reserve housing in June or July as many American students do. Many must wait until they come to MIT at the beginning of the semester to get housing. By this time most of the MIT housing is already allocated, a situation which places a burden on foreign students. One sugges-

tion raised at the meeting would give housing priority to first year foreign students, and decreased priority to upperclass graduate students.

Parking on campus was another concern raised at the meeting. Some students pointed out that on occasion patrons of nearby Cambridge hotels park in private MIT parking lots. They claimed that the campus police do not ticket these cars, but do issue tickets to students who park their cars illegally.

(Please turn to page 2)



The UMOG (Ugliest Man on Campus) candidates gathered yesterday to prove what an ugly bunch they really are. The money collected by the candidates will go to the Community Service Fund. The last day of the contest is October 26. It is reported that the photographer who furtively snapped this picture is in serious condition resulting from shock. (Photo by Gordon Haff)

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Corning Glass Works representatives will be in room 12-170 of the Career Planning and Placement Office October 26, 1978 to discuss career opportunities with senior and graduate engineers.

CORNING

news roundup

World

Salt Talks — After two days of SALT negotiations in Moscow, no agreements have been made between Soviet and American representatives. Reports of a summit between President Carter and Chairman Brezhnev have been circulating. It is hoped that such a meeting would quicken the talks.

Mideast

Mideast Peace — An Egyptian spokesman praised President Carter's efforts to break the impasse in Mideast negotiations on the Camp David agreements. Meanwhile, President Sadat returned the final draft of a 19 point peace treaty between Egypt and Israel for further study. The Israeli Cabinet met in special session last night and is expected to announce an official statement regarding the new treaty sometime today.

Nation

Indian Claims Settled — Maine officials reported a settlement in the disagreement over Indian claims to two-thirds of the state's land. Some 37 million dollars in Federal money will be paid to the Indians in exchange for an end to Indian court suits.

Carter to address media — President Carter will announce wage and price controls as part of his anti-inflation program.

Sports

Patriots Win — The New England Patriots are in first place in the AFC Eastern division after defeating the Miami Dolphins 33-24, on Sunday.

— Aaron Rapoport

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Grads see need for separate ASA

(Continued from page 1)

Parking lot security is also a concern of a number of students. Though over twenty cars were stolen from MIT parking lots during a one year period, no money from parking fees goes to security.

Some students voiced their concern over the lack of office space for graduate student activities. Currently graduate students gather informally primarily at the undersized Muddy Charles Pub, sponsored by the GSC. Since the Association of Student Activities is predominantly undergraduate, several graduate students thought that a separate association of a similar kind should be organized for graduate students.

An opportunity for graduate students to voice their concerns will take place this Friday, when the Dean for Student Affairs Visiting Committee for Graduate Students Open Hearings meet.

The open hearings will be held this Friday afternoon, October 27, at two o'clock in room 10-340.

Seniors... An MBA at NYU?



Located in the business and financial capital of the world, New York University has the nation's largest private Graduate School of Business Administration. Deborah Harris can discuss the possibilities there for you on Wednesday, October 25 when she visits the campus. The Career Planning and Placement Office has program information and a sign-up schedule.

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Overseas

INTERVIEWING
EE, ME, Physics BS and MS

October 26, 1978

Important Notice:

Some of the early posters for the Shakespeare Ensemble's fall productions were misprinted.

The correct information is:

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Monday October 30

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Opinion

Sen. Proxmire and the Golden Fleece

By Bob Wasserman

Senator William F. Proxmire has taken aim against federal research spending. The Wisconsin Democrat's weapon is the Golden Fleece Award, presented monthly for the "biggest, most ridiculous, or most ironic example of government spending or waste" as Proxmire explains it.

A prime recipient of the award is the National Science Foundation.

something else

The NSF won the first Golden Fleece in November 1975 for its \$84,000 study entitled "Why People Fall in Love." The NSF has been honored several times more

for such studies as the "socio-sexual behavior of the dabbling African black duck," and an NSF-sponsored project by the University of Washington on the perception of the unusual, which determined the response of people when shown a picture of an octopus in a barnyard.

More embarrassed honorees have been several large federal agencies. In 1976 the National Institute of Alcohol Abuse won the Golden Fleece for a \$100,000 study to determine whether drunk fish are more aggressive than sober ones. A recent award was given to the administrators of the Comprehensive Employment Training Act (CETA) for its \$400,000 funding for a door-to-door survey to find out the number of dogs, cats and horses in Ventura County California. The Department of Agriculture won their Golden Fleece for a study on how long it takes to fry two eggs in a skillet. The DOA scrapped similar projects on lunch and dinner preparation after receiving the award.

The liberal Proxmire is considered a loner and an eccentric by his fellow Congressmen. Graduated from Harvard Business School after Yale undergraduate studies, Proxmire enjoys a large deal of support from his liberal, independent Wisconsin constituency. Now a twenty-year veteran of the Senate, Proxmire recently underwent a hair transplant and began a heavy program of jogging and physical fitness to rejuvenate his sixty-two-year old frame. Rated by Ralph Nader as the strongest consumer advocate in Congress, Proxmire has undertaken such projects as working on a New York City sanitation truck for a week to see whether the garbagemen were justified in their frequent strikes.

Proxmire's fiscal conservatism on research and other matters has a long and interesting history. As a freshman senator in the 1950's, Proxmire introduced five new bills into Congress establishing programs costing \$35 million dollars. Vice President Richard Nixon immediately pounced on Proxmire, calling him a "wild Democrat drunk with visions of votes" due to his "wild spending binge." Proxmire has been gun-shy of government spending ever since, and his Golden Fleece Award evolved out of this hesitancy.

Although Proxmire has begun to soften his hard-line fiscal policies, evidenced by his support for federal loans to New York City, the Golden Fleece Awards are just as visible and biting as ever. One award to the National Endowment of the Humanities for a study on tennis court manners was well-deserved, but also came at a bad time for the struggling humanities field. And not all of the Golden Fleece awards have been passively or humbly received, either, for currently there is an \$8 million lawsuit filed against Proxmire for a prize to a study of "why monkeys clench their jaws."

Proxmire has concrete proposals for federal research, of course, not just complaints and exposes. Proxmire has urged that scientific research proposals be evaluated by a *different group* in each respective agency, in order to stop the funding of studies "at best dubious and all too often ridiculous," in the senator's words. Proxmire would also like to see a governmental listing of all studies, past and present, and finally he wants the Office of Management and Budget to "ride herd" on wasteful agencies and research.

Many of Proxmire's citations for useless research are well warranted, but some also have taken a particular study out of context from a larger, more important research project, for example the study on monkeys. Perhaps the senator should don a technician's robe or take up a researcher's clipboard, to really understand scientific research. After all, he did it for the garbage collectors, didn't he?



Zannetos' grading wasteland

By Ron Newman

"The Grading Committee looked only at grades — they felt that grades were the center of MIT's problems. But it turns out that grades are not the instrument to use to deal with educational problems."

In that remark at last week's faculty meeting, Economics Professor Michael Piore may have issued the definitive explanation of the Ad Hoc Committee on Grading's unusual ability to antagonize both the students and the faculty of MIT.

Certainly the members of the Grading Committee did little last

Wednesday to prove Piore wrong. The meeting opened with a long speech by the committee's chairman, Management Professor Zenon Zannetos, explaining that the committee's recommendations were designed to "preserve the integrity and excellence of our curriculum." Zannetos was followed by Electrical Engineering Professor James Melcher, who described the proposals as a move to prevent "the GRE [Graduate Record Examination]... from dictating my curriculum from above," and finally by Professor William Siebert, also of EE, who said loudly of the motions, "A vote yes is a vote to protect the grading system. A vote no is a vote for the erosion of the American university. I truly believe we stand today at the edge of a waste land."

In less than ten minutes, the Grading Committee totally abandoned moderation. In place of the cautious language of its March 1978 report, the Committee reverted to the combative style of its initial 1977 report. Included was the old phrase "truth in packaging," used to describe the placement of grade distributions on student grade reports.

Zannetos' statement that "I hope students don't think any member of the committee took an adversary role. We're not trying to 'get at' students," was strongly contested by other faculty, notably Piore and Assistant Professor Sherry Turkle, the chairman of the Committee on Student Environment. Turkle and Piore expressed serious misgivings about the negative effect the grading proposals were having on student-faculty and faculty-faculty relations at MIT.

In such a supercharged atmosphere, the Grading Committee's stated intention to press on with a study of freshman pass/fail would seem ill-advised. Fortunately, the resignation of three

of the Committee's four faculty members (Siebert, Melcher, and Physics Professor Tom Greytak) has slowed down the Committee's momentum. It's time for the faculty to take a careful look at the Committee's role, to determine whether we really need the Committee in its present form.

The motion which set up the Ad Hoc Committee on Grading leaves appointments to the discretion of the President of MIT. With President Wiesner's time now devoted chiefly to alumni fundraising, responsibility for the Committee falls to faculty chairman Robert Hulsizer and

expand the Committee during its remaining six authorized months, making it more representative of the MIT community. Some suggestions:

- The participation of the Office of Freshman Advising would seem essential in any discussion of pass/fail. Either OFA director Alan Lazarus or Assistant Dean for Student Affairs Bonny Kellermann would have much to contribute to the Committee.

- The lack of student representation has been a chronic problem since the Committee's establishment in April 1976. No graduate student was appointed until late last term, and only one seat has been provided for an undergraduate representative. The holders of that seat, Louis Touton and Drew Friery, have often seemed ideologically closer to Professors Zannetos and Greytak than to the majority of the student body. Hulsizer and Gray

(Please turn to page 11)

perspectives

Chancellor Paul Gray. If MIT is to avoid further tension between students and faculty (and between faculty and faculty) over grading policy, Gray and Hulsizer must

feedback

UMOC withdrawal

To the Editor:

Many of you have seen a strange thing walking through the campus for the past few days. Something on a leash that barked and shook a can of money. Since UMOC began this past Thursday, the wolfman has been seen all over campus. I am the wolfman, and I feel that all the people of the MIT community should know why I have not and will not be seen for the rest of the campaign. On Saturday night, while in a dorm campaigning, ether was thrown in my face and eye. This has resulted in numerous small scratches in my cornea, and cons-

tant pain. This condition necessitates the use of an ointment for the rest of the week. Insofar as I cannot put on make-up, I will be unable to actively campaign for the remainder of UMOC. I must apologize to those people who have helped and supported me, and I urge everyone to vote for the UMOC candidate of their choice. I will not mention where this occurred and who was involved in order that nothing occurs in a retroactive manner. Once again, I must apologize, and I wish all the other candidates the best of luck.

Irving L. Rabinowitz '81

Graffiti protested

To the Editor:

I am writing with regard to the rash of graffiti which appeared around the campus on the Columbus Day weekend. According to Mr. DeWolfe of the Physical Plant, fourteen buildings (not all of which were MIT property) were defaced. He estimated the final cost of painting and sandblasting at \$2000! Along with the graffiti, a banner was also run up a flagpole and the ropes cut, so that Physical Plant had to hire two steeplejacks at \$200 to climb up and bring it down. These costs come out of the university overhead which is paid for by our tuition, already the highest in the country.

The policy of the MIT administration, and it is a sensible one, is that vandalism is not an intelligent way to express oneself, and that such slogans are to be removed as soon as practical. Fortunately, since the end of the late sixties, the campus has rarely been subjected to these attacks.

To those who are responsible, whether you believe in "Down with the Shah" or "No Nukes" (which was the theme of most of the graffiti), there are better ways to express your ideas. How about using them? Unless, of course, you have nothing intelligent to say.

Paul Gierszewski G
October 14, 1978

The Tech

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sportscont.

IM Commentary

IM's avoid problems

By Gordon R. Haff

In contrast to last fall's intramural sports seasons, many of which were plagued with a seemingly endless stream of rainouts and managerial problems, this fall's intramurals are running smoothly.

In fact, only one sport has problems. Tennis is running only a tournament this year instead of team play. According to Dan Radler '79, this year's IM tennis manager, the change was forced by the unmanageable number of teams last year. He said that last year's situation where teams had three matches, no team championship, and an individual championship which was held over one weekend was unacceptable. He added that the IM Council Chairman, Jason Tong '80 made the decision to drop the team play.

This year's tournament has about 15 percent fewer people participating in it than did last year's program. Radler said this is because "when there's a team it generates interest." However, he does not see any way of going back to team play without "severely limiting the number of teams." He added that it is better to have a lot of individuals participating than a few teams.

Volleyball, football, and soccer are having better luck. None of the three sports has suffered a massive increase in teams (soccer has the largest increase: seven teams); this is probably the first time this has happened in years. In addition, soccer and football have been blessed with this fall's sunny weekends. Last year, there were rainouts almost every weekend. This fall has had but one rain day so far.

IM football is running well this year after a previous season in

which there was no 'A' league. This year has the largest 'A' league in years with ten teams participating. Tom Colten '80, IM football manager, agrees that this change was brought about by the Football Club. He said that "the Football Club removed the fear of the 240 pound tackle."

The traditional powerhouses aren't even the teams out in front. Sigma Alpha Epsilon, winner of the IM championship eight out of the last nine years, has an undistinguished record. Lambda Chi Alpha, SAE's perennial challenger, has also lost — last Sunday 3-0 to Delta Kappa Epsilon.

The only major problem this season is one which is affecting more and more IM sports: the problem of getting referees. Despite an increased pay scale this year, Colten said that he would really be having severe problems if it were not for the Football Club players refereeing to raise money for the Club. This problem has been increasing steadily since the athletic depart-

(Please turn to page 12)

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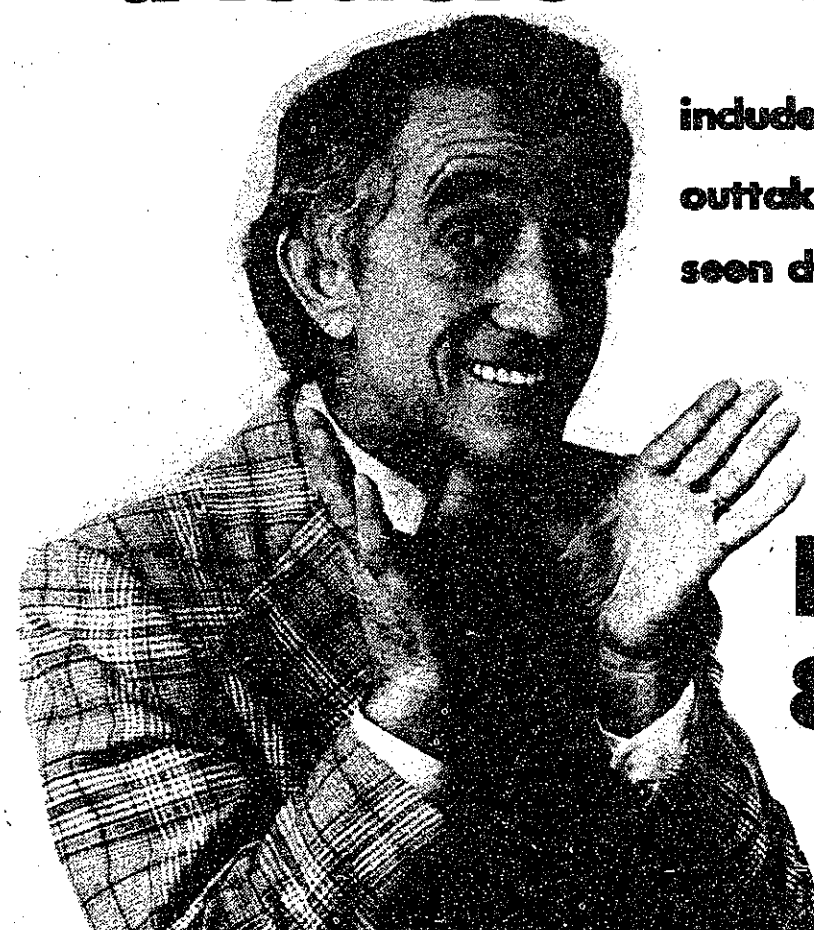
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No crocodile tears for *Death on the Nile*

Death on the Nile
 a Paramount release;
 Directed by John Guillermin;
 Starring Peter Ustinov, David Niven, etc.;
 Now playing at the Sack Cheri.

By Bruce Nawrocki

With the popularity of *Murder on the Orient Express* it seemed obvious that someone would produce a film using another novel from Agatha Christie's vast collection, in the same vein as *Murder*. So we now have *Death on the Nile*, this time with Peter Ustinov as Hercule Poirot.

We are on a leisurely cruise down the Nile, with an assortment of very suspicious-looking characters. Someone has just killed Linnet Ridgeway, "the richest girl in the world." Is it the insanely jealous woman (Mia Farrow) whose fiance ran off to marry Linnet? Or the woman (Maggie Smith) who was forced by Linnet's father from a position of wealth to one of servitude? Or Linnet's uncle (George Kennedy) who just had her sign over the Chrysler Building (and more) to him in case she died? Or one of nearly a dozen others?

With this large cast, there is not much time for character development, so the film succeeds only when the single-trait caricatures succeed. At times their actions are completely unbelievable and even ludicrous.

What raises this film above the banal, though, is the delightful characterizations of several of the actors. Angela Lansbury plays the hilarious role of a constantly drunk and sex-starved writer of Gothic romantic novels who has hit the skids of

her career. I.S. Johar plays the constantly confused and conciliatory Egyptian captain of the passenger steamer *Karnak*. He is always mumbling malapropos phrases and strange Americanisms, such as "Goody goody gumdrops!" when he finds the

"juicier" (bloodier) cases, naively forgetting that she is right in the midst of a particularly "juicy" one.

Even though *Death on the Nile* doesn't get as juicy as *And Then There Were None* (filmed as *The Ten Little Indians*), in which

almost enough to make all the double cabins into singles. But if this turn of events is unsettling, it is Dame Agatha's fault, not the director's.

The sets and the cinematography are particularly beautiful. Shot partially on location, the film wends its way from the Sphinx to the Hypostyle Hall (which was used in *The Spy Who Loved Me*) and beyond. In the Hall there is a great scene done in total silence in which the camera follows a large stone falling from atop a pillar to its intended victim below.

Although often a little slow-moving, the majestic beauty of the setting and the charm of the period clothes and sets make the film a satisfying visual experience. And there are enough surprises lurking in the shadows (reptiles, for example) to keep you in suspense. Even Ustinov plays his part well, if he would only stop uttering trite comments, such as "Why don't you, as the Americans say, 'Take it easy?'"

As for the identity of the murderer, you'll have to find out for yourself, for that is the whole point of the film. And if you keep Poe's "The Purloined Letter" in mind, you'll probably guess who did it about half-way through, which is better than I did.



(Left to right) Simon MacCorkindale, Jack Warden, Mia Farrow and Maggie Smith listen as detective Hercule Poirot unravels the identity of the murderer aboard the steamer *Karnak* in Agatha Christie's *Death on the Nile*.

murder weapon. Bette Davis, complete with a skull cap and copious make-up, looks laughably embalmed in the first scene in her plush, claustrophobic Washington, D.C. apartment. She asks Poirot to relate to her several of his

everyone gets killed off, there is still plenty of action. Someone, it seems, has seen the murder and eventually gets murdered. And, of course, someone sees this new murder and is promptly shot. So by the end, the passenger list has been thinned out

happenings

AT THE MOVIES

Psycho The MidNite Movie, Sat., Oct. 28, second floor of the Student Center.
This weekend's LSC lineup:
Sleuth Fri., 7 & 10pm, 26-100.
Holiday (Classic) Fri., 7:30 in 10-250.
Vincent Price Double Feature: *The Raven*, 6 & 9:20pm; *Comedy of Terrors*, 7:40 & 11pm; Sat. in 26-100.
The King and I, 6:30 & 9pm, 26-100.

AROUND MIT

The Mezz Coffeehouse performers in a relaxed atmosphere. Refreshments are

available, free admission. Fri., Oct. 27, from 9pm to 1am in the Mezzanine Lounge.

Pat Paulsen: A Lecture in Humor Presented by the Lecture Series Committee; Tues., Oct. 24, 8pm in Kresge Auditorium. Tickets cost \$1.50 with MIT or Wellesley ID, \$3 general admission, and are available in Lobby 10 and at the door.

IN TOWN

Frank Zappa at the North Shore Coliseum, Wed., Oct. 25 at 8pm, tickets \$8 in advance, \$9 day of show; all seats general admission.

Al Stewart at the Music Hall, Sun., Nov. 5 at 8pm, tickets \$8.50 & \$7.50.

Boston at Boston Garden, Mon., Nov. 6 at 8pm, tickets \$10, \$8.50 & \$7.50.

Weather Report at the Orpheum, Sat., Nov. 11 at 8pm, tickets \$8.50 & \$7.50.

Queen at Boston Garden, Mon., Nov. 13 at 8pm, tickets \$9.50, \$8.50 & \$7.50.

Dave Brubeck and the New Brubeck Quartet in concert for two shows in the Levin Ballroom at Brandeis University on Sat., Oct. 28, at 7pm and 10pm. Tickets are \$6.50 and are on sale at the Brandeis Student Service Bureau, Tufts University, Boston College, Strawberries, and Out of Town.

The Tech's movie rating scale:

- ⊙ excellent
- very good
- good
- fair
- poor
- the absolute pits

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arts cont.

Death of a Salesman brought to life

By Joel West

In 1944, Arthur Miller wrote a two-act drama about a fairly ordinary Brooklyn resident and his family. Long since recognized as a masterpiece of American literature, the Pulitzer Prize-winning *Death of a Salesman* is somewhat sterile on the page, and requires a good stage production to bring out its power. Audiences at MIT were treated to such a production last weekend, at the hands of the MIT Community Players.

Willy Loman is the aging patriarch: a traveling salesman who covers the New England region. After 34 years with the firm, he grosses \$70/week (perhaps \$10k/year in today's money) and has suffered the indignity of having his salary taken away and being put back on commission only. At 60, he is forced to borrow money from his neighbor Charley to support himself and his loving wife Linda.

Loman is a perpetual dreamer: never having known his father, he relies on tales told by his brother Ben, who romanticizes their father as successful and far more creative than an thousand other men; Ben also loves to tell the story of how he "walked into the jungle at 17 and walked out at 21 a millionaire" (in diamonds). However, in the principal time frame of the play we are told of Ben's death; throughout most of the play he exists as a fantasy, or



Charismatic Biff Loman (Dan Genetti) is unswayed by the advice of his friend Bernie (Chris Hull). (Photo by Joel West)

alter ego of Willy's, much as Bogie was to Woody Allen in *Play it Again, Sam*.

Miller's play operates on several levels. The focus of the play is, of course, on Loman and his dissatisfaction with his life. Equally important is the complicated interrelationship of Willy, Linda, and their two sons Biff and Happy: indirectly, Miller unambiguously shows us the complex relationship of this seemingly simple family. Easily missed is the intricate detail: identical phrases are used by Biff and Willy in a context that does not call attention to this link between father and son.

The primary emphasis of the play is on these two characters; if either is weak, the play fails miserably. However, from his very first moment on stage, Sol Schwade captivates the audience with his moving portrayal of the tired old father. Exhausted after a long trip, excited about an imagined future for his two young "Adonises," violently angry when he can't understand his younger son's actions or motivations, Schwade conveys the entire range of emotions as the eminently fallible Willy. It is fortunate that the actor is not as old as the character he portrays: few men as tired and worn-down as Willy is could deliver the intensity that he does.

Dan Genetti as Biff is somewhat enigmatic at first, not inappropriate for a confused 34-year-old boy who has yet to settle down. But Genetti brings through the character as he really is, a man who is like his father, but resents him terribly, locked in a typically Freudian son vs. father conflict. Also, unlike the rest of the male line, Biff accepts his failings and attempts desperately to treat life as it is: his line "we never told the truth for 10 minutes in this house" is the most truthful in the whole play.

Like his younger brother, Happy (Jim Cusano) was a strapping young athlete in



Willy Loman (Sol Schwade, right) attempts to discuss his problems with his elusive brother Ben (Charles Berney). (Photo by Joel West)

high school. Lacking his brother's idealism, he has gone into business with success comparable to his father's: Cusano plays the part to the hilt, convincing in his cynicism, lack of principles, and almost compulsive philandering. He rarely disagrees with what his father says, and shares the elder Loman's self-delusion.

At first, Kathy Kariotis Reilly has trouble with the part of Linda; later on, as her suffering increases, she is able to bring out what is largely a passive part. She patiently puts up with her husband's failings, attempts to prevail on her favorite son Biff, and tries to control their heated arguments. Living her life only through the men in her life, Kariotis interacts well with those characters with whom she is forced to deal.

Of the other parts, Charles Berney brings the necessary mixture of wit and wisdom to the shadowy character of Ben. As the other woman, Deborah Crockett does her best

with an admittedly shallow part. Chris Hull is the archetypal gnu as Bernie, Biff's friend who later goes on to argue a case before the US Supreme Court. Of all the principals, only Kip Reilly (a last minute addition) performs spottily as Willy's only friend, Charley.

Director Carol Melcher has aimed high in choosing such a serious and complex play. From the question of why Biff gave up on life at 17, to the ultimate fate of the elder Loman, her players carry the ideas of Miller's work with polish and consistency. About the only "amateur" thing about this play is the set, which was effective in spite of the obviously low budget.

For \$3, students will have four more opportunities to see a truly fine performance of *Death of a Salesman*: October 26, 27, 28 at 8pm and at 3pm on the 28th. Ten or more theater-lovers can obtain their tickets at a reduced rate of \$2.50 each.

XEROX EMPLOYMENT SEMINAR

Xerox Corp. will conduct a pre-interview seminar for MIT students interested in employment opportunities in the Rochester, New York, and Los Angeles, California areas. Students graduating this year in Electrical Engineering & Mechanical Engineering, Computer Science, & Physics (BS, MS, PhD) are encouraged to attend.

This seminar will be held on Thursday, October 26, 1978 at 4:00 pm in room 12-182 and will last about 1 hour.

Xerox will be on campus for interviews on November 7th, 1978. Interested students should sign up at the Career Planning and Placement Center.

Xerox is an affirmative action employer (male/female).

sports cont.

Football's 0-4 mark misleading

By Tom Curtis

Judging from its 0-4 record, the MIT Football Club seems to be having a dismal season. In two of its last three games, however, the team lost by less than a touchdown. MIT lost one game only because its field goal attempt was blocked on the last play of the game.

Following an opening 27-12 loss to Fitchburg, the team battled then-undefeated Massachusetts Maritime at Buzzards Bay. MIT scored first in the game on a fourth-and-goal quarterback sneak by Bruce Wrobel '79 from the one yard line. However, Massachusetts Maritime scored once in the second quarter and once in the third quarter to claim a 12-6 victory.

Versus New York Maritime two weeks ago, the club nearly pulled off a come-from-behind victory. NY Maritime had scored two touchdowns and a field goal to take a seemingly secure 17-0 halftime lead.

MIT was not about to concede defeat, though. In the third quarter, Mike Barrett '81 charged in for the Beavers' first touchdown. Early in the fourth quarter, Jeff Olson '81 ran for MIT's second touchdown. Two point conversions were successful after each touchdown and MIT trailed by just one point.

Late in the game, MIT put together one last drive. The offense pushed the ball to the NY Maritime five yard line with less than a minute remaining to play. Wrobel was then sacked on the 15 yard line with just seconds left in the game. Stu McKennon's subsequent field goal attempt was blocked as time ran out.

Friday, the club was surprised by Brooklyn College even before taking the field. The club members had thought they were playing just another small-scale club team. Brooklyn turned out to be an NCAA Division III powerhouse with a 100-man squad coached by an eight-man staff. MIT felt lucky to lose by only a 42-16 score.

Brooklyn blew the game open immediately. On its first three possessions, Brooklyn scored; at the end of the first quarter, Brooklyn had a 28-0 lead.

MIT did come back to score two touchdowns in the second quarter. Wrobel connected with Bob Anderson on a 17-yard touchdown pass play. The other score came on Wrobel's third quarterback sneak touchdown of the season.

Brooklyn iced the game with two more touchdowns in the third quarter. MIT ended the scoring

when Art Aaron '80 blocked a Brooklyn punt out of the end zone for a safety in the fourth quarter.

The Beavers play their only home game of the season this Saturday at 1:30pm in Steinbrenner Stadium. The opponent will be Sienna (2-2) which MIT dominated in a scrimmage before the season.

The MIT Community Players Present Arthur Miller's Death of a Salesman

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Led by American ingenuity, the world today works by harnessing plenty of energy. Thank goodness. The alternative is human drudgery. Yet because our system is energy intensive, a recent movement calls us wasteful. Our basic approach to using energy is wrong, say these zealots. Big is bad. Small is beautiful and the *soft path* (isolated, local energy systems—even individual ones) is what we need.

Could you really depend on a windmill to power your hospital? How much steel could you make with a mirror in your yard?

A curious combination of social reformers, wilderness fanatics and modern-day mystics has brought America's energy development almost to its knees. They've stalled the nuclear approach and stymied coal. They've choked down natural gas exploration and hamstringed oil. Their love of exotic energy sources—sun, wind, geothermal and tidal action—will last only until a few big projects get underway. Then, chances are they'll find a way to turn them off, too. Our real energy crisis is a crisis of common sense.

Our government seems to actually encourage this madness. Politicians entertain harebrained schemes to tax this, ban that, rig fuel prices and regulate their use. We've strangled the market system, the only approach that can deliver as much of each kind of fuel as people choose to buy.

There's a direct connection between finding more energy and creating more jobs. More of one makes more of the other. By the end of this century, we'll need 75% more energy than we're using today. Right now, 93,000,000 American men and women have jobs. Over the next ten years,

we'll have to create another 17,000,000 jobs for more Americans, including you.

Plain talk about ENERGY

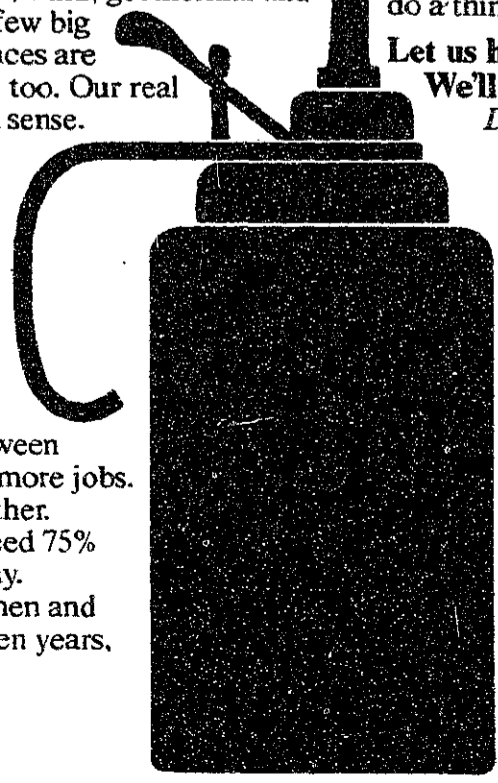
We Americans already know how to solve the energy crisis. We have the technology to reach solutions. Yet each solution comes with its own set of political problems. Natural gas mustn't cost too much. Offshore oil mustn't spoil our beaches. Coal mustn't rape the land or poison the air. The atom mustn't threaten to destroy us. Energy conservation mustn't inconvenience people too much.

Fair enough. But so far, we're paying more attention to the problems than we are to the energy itself. We've got to stop making every social goal an ideological crusade. We need to think things through and make rational trade-offs if we're ever going to get those 17,000,000 new jobs.

Next time some energy zealot crusades for anything, test the crusade against this question: Does it produce—or save—at least one Btu's worth of energy? If not, it won't do a thing to help you get a job.

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Basic research flounders

Chalk dust is an new series of interviews with various professors representing the various departments at the Institute.

By Michael Taviss

"Our theoretical framework is about as leaky as a sieve,"



declared Dr. August Witt, Professor of Materials Science and Engineering, referring to research in electronic materials. "We know much less about [certain aspects of the field] than we thought we did."

"Professor Witt is involved, in his own words, with 'the processing and characterization of electronic materials.' This is an obviously vital field of study in today's computerized, electronic world, but Witt believes that the United States is neglecting research and development in the field in favor of more immediately practical applications.

"This country was leading the world until about ten years ago in every sector of electronic materials, but in many sectors it has slipped.

"In recent years basic research and development has eroded because of the economy of this decade. Industry decided that it is cheaper to acquire the technology rather than develop it themselves," Dr. Witt pointed out that the government supports the same point of view.

Witt also believes that the United States is falling behind in the field of space processing of electronic materials. "I have dealt with NASA for ten years and have been involved with the space processing program," he said. "They state that the Space Program has been very unsuccessful so far in materials processing. But they ignore many of the important aspects of reduced gravity. They recommend experimentation, but are against industry in space."

"The Russian program," Witt continued, "is much more intensive and focuses on both aspects. Of course, it really doesn't matter who does the work, on earth or in



space, as long as certain conditions are met. If there is an open flow of information," Witt concluded, "it makes no difference who explores." He admits, however, that there has not been such a flow in the past, and he does not expect one in the future.

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sports cont.

Water polo tips Yale, 6-5

By Gordon R. Haff

On the strength of their successful play at the Yale Tournament held last Saturday, the MIT water polo team can now claim to be second in New England behind Brown, last year's New England champions.

MIT started off by defeating Southern Connecticut, 15-7, for the second time of the season. The second game of the tournament was against Yale who edged out MIT for second place in New England last year. Yale had already run over Harvard 15-5 earlier in the day.

The Beaver squad was psyched

for their game against Yale. Having lost to Harvard immediately upon its return from California the previous Wednesday in a tight 5-4 contest, the MIT team wanted to prove that it was the better team. Coach John Benedick cited a "superior desire to win" as the major component in MIT's 6-5 victory over Yale.

Benedick was also pleased with the improvement in team skills since the team's trip to California. He particularly cited the squad's quicker counterattack and refinement of its set offense and defense against a set offense as the major areas of improvement.

In MIT's final game of the day, the Beaver squad lost to Brown, 11-6. MIT had not known they were playing Brown at the start of the tournament, and the team was not prepared for it. Despite this loss, Benedick thinks that MIT can "play up with Brown in the New England when we're prepared for them."

Next weekend MIT goes to Brown to face Bucknell, Army and Fordham. The following weekend are the New England championships. If MIT can place second, they will go on to the Easterns.

MIT crew second by .4 seconds

(Continued from page 11)

of the day went to the women's four who posted a time only .4 seconds behind first place UPenn. (.4 seconds translates to about three feet.) This four consisted of Bow Liz Fisher '80, 2 Joan Whitten '80, 3 Cindy Cole '79, Stroke Diane Medved '80, Cox Debbie Utko '80.

The women's eight, defending last year's fourth place finish, placed fifth behind Wisconsin, Yale, UPenn, and Vesper B.C. Charlene Nohara coxed the eight which was made up of the same women who had rowed the four earlier in the stern combined with Bow Faith Alexander '81, 2 Sandy McCarley '81, 3 Laura MacGinitie '80, and 4 Robin Miles '79.

In spite of pre-race odds of 4-1 placed on the Tech oarswomen by Head Rigger Joe Landquist, MIT's 1973 Heavyweight varsity beat the women's eight time by a full 18.3 seconds. Hampered only slightly by the post-race (and pre-race) refreshments carried within the boat, the heavy 1973 crew finished 36th in the Championship Eights event.

Hartley Rogers, Assistant Provost, finished fifth in the Veteran-Singles. Pete Billings '73, placed third in the Lightweight Singles event.

Racing under foreign colors, Mary Zawadzki '78 finished 16th in the women's singles. Mary was the women's varsity captain last year and is presently rowing with the Mendota R.C. in Wisconsin. Jim Bidigare '78, rowing for Union B.C. in Boston, placed 7th in the novice singles.

The 80-degree sun and flat water of last Saturday make it hard to believe that this race marks the end of the fall rowing season for most schools. As a preview of next spring's competition, the Head indicates a potentially winning season for Tech's crews.

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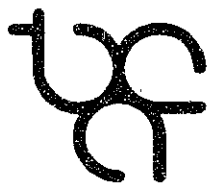
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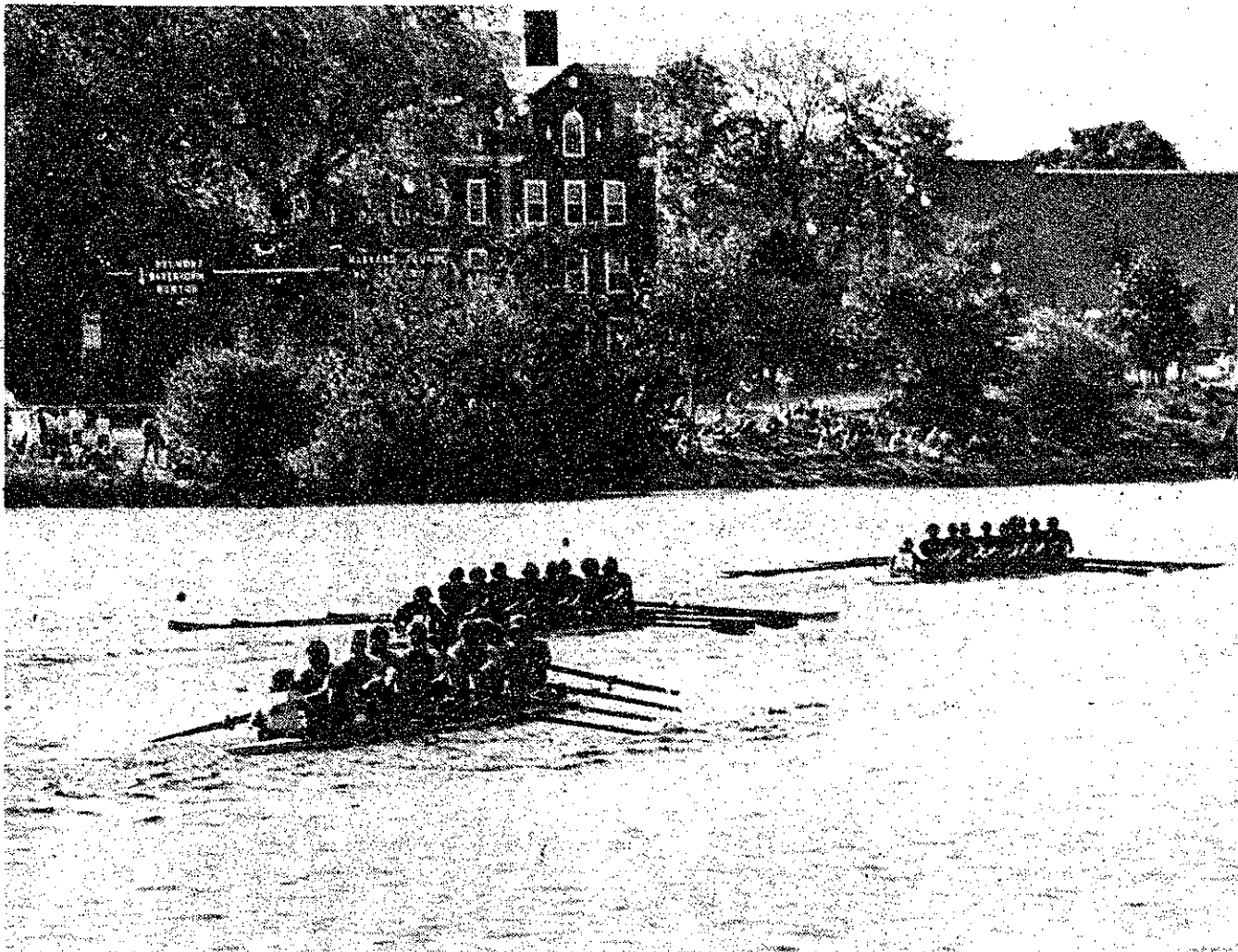
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sports cont.

MIT crews 2nd in Head



The MIT Club Eight (foreground) glides past two competitors on its way to a second place finish in Sunday's Head of the Charles Regatta. (Photo by Joel West)

By Cindy Cole

Editor's note: Cindy Cole is a member of the crew team.

In "one of the best days we have ever had," according to Head Coach Peter Holland, the MIT Boat Club sported many successful crews in the annual Head of the Charles Regatta. Placing crews in the top ten in six out of the eighteen events, the

Engineers surprised many top-seeded schools.

(Bow John Borland '80, 2 Doug Brennan '80, 3 Mike Davis '81, 4 John Bowen '81, 5 Jeff Green '81, 6 Gary Smith '80, 7 Rob Humphries '80, Stroke Mike Nuttall '80, Cox Paul Weiss '80) finished a strong second. The

The heavyweight men, seeded eighth in the Club Eights event

men's four (Bow Paul Denney '79, 2 Ed Gillett '80, 3 Russell Blount '80, Stroke George Florentine, Cox Howard Seidler '79), racing in the Championship Fours event, finished seventh.

The lightweight men finished 22nd in the Lightweight Eights event. Their light four finished 31st.

The most heartbreaking finish

Opinion

Grading

(Continued from page 5)

should consider expanding the student delegation on this committee to four, one from each undergraduate class. And at least some of the students should be picked by the Undergraduate Association Nominations Committee, rather than being taken directly from the Committee on Educational Policy, as before.

• Faculty members of the committee must be chosen from the entire range of MIT departments, not just the science and engineering schools. The current committee, before the recent resignations, had two professors from the Electrical Engineering Department, one from Physics, and one from Management.

• Finally, Professor Zannetos should be replaced as chairman of the committee. His view of students as "products and services... enter[ing] into universal markets," his opinion that "loss of faith in the grading system" is the primary concern of the committee, and especially his statement last week that grade distributions on term reports are "useful to students for determining career choices" show him to be insensitive to the real educational needs of students at MIT. The new chairman of the Grading Committee should be someone who, as Professor Piore suggested, sees grades as secondary rather than primary to the educational process.

If they do not wish to expand the committee, Hulsizer and Gray would be well advised to simply let it die by failing to appoint new members. Such a move would return the review of grading policy to the Committee on Educational Policy, and it would help shift the debate at MIT from "How do we improve the grading system?" to "How can we best educate our students?"

A Public Forum
Technology and Work: WHO DECIDES?
 Frank Runnels, President, United Automobile Workers, Local 22; President of the All-Unions Committee to Shorten the Work Week
 Frank Rosen, District President, United Electrical Workers; Vice President, the All-Unions Committee to Shorten the Work Week
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Soccer nipped by BC in double overtime

By Bob Host

The varsity soccer team improved its record to 6-3 in the last three games with victories over Lowell and Holy Cross and a tough loss in overtime to Boston College.

The Lowell game was played in a driving rain and, as a result, both teams were very cautious on the wet field. The only score of the game came on a shot by Jim Atwood '79 midway through the first half on an assist from Rob Currier '79. The game was totally dominated by MIT, however, as they outshot Lowell 28-1, with goalie Tom Smith '79 not having to make any saves. MIT won 1-0.

Rain was again a factor in the BC game, played on astroturf at BC. The Beavers appeared to be apprehensive in this game, which was scoreless throughout regulation time and the first overtime period. However, after 101 minutes of total playing time, BC broke the ice on an open shot off the give and go for the only goal of the game and held on to win, 1-0, to increase its record to 8-3. In all, BC had 28 shots on goal to 13 for MIT, with Smith turning aside nine shots.

The Beaver offense finally opened up in the Holy Cross game, where Jay Walsh '81 led the attack with two goals and Bill Uhle '81 added two assists. Walsh opened the scoring on a long pass from Uhle which gave the Beavers a 1-0 halftime lead. The second goal was scored by Luis Boza '79, again on an assist by Uhle. After Holy Cross narrowed the gap to 2-1, MIT exploded for three goals in 4½ minutes, with Zanda Ilori '79, Walsh, and Francis Awuah '79 (assisted by Atwood) putting the ball in the net. Smith did another fine job, and the Beavers upped their record to 6-3.

With only four games left in the regular season, MIT could conceivably get a post-season tournament berth if the team plays well in the remaining games. Coach Walter Alessi is hopeful but admits that winning all four games is a difficult task, since the four teams are all good.

Good weather helping IM's

(Continued from page 5)

ment discontinued its PE refereeing courses. Colten stated that PE classes of this nature "would help a lot," not only in number of referees but in terms of referees not having to learn skills during a game.

Soccer has also been running smoothly. There will be playoffs in 'A' and 'B' league. According to IM soccer co-manager Thatcher Root '79, there have been no serious problems with field space so far this year since there has only been one day rained out.

Volleyball, the only one of last fall's major sports not to have serious problems, is going almost as well this year. With only three teams interested in playing living group 'A' (Baker, SPE, and DTD), living group and independent leagues had to be combined this year. The playoffs will consist of a championship match between the top two 'A' league teams. In addition there will be playoff matches between the top teams in each of the twelve 'B' league divisions.

The first of these, Tufts, is a team that the Beavers have never defeated under Alessi's tutelage, although last year MIT had a 1-0 lead going into the last ten minutes only to see the Jumbos strike for two goals in rapid succession and win 2-1. The next two opponents are Colby, currently 7-1-1, and Boston University which is ranked in the top ten in New England. All three of those games are away.

The season finale is at home against Coast Guard, a team the coach described as always tough. He stated that MIT and these opponents are so evenly matched that the Beavers could win, split, or lose all four of the games, but that in any case the way to approach them is one game at a time.



Zanda Ilori '79 (in the air) attempts to head the ball in for a goal in Saturday's soccer game with Holy Cross. The Holy Cross goalie stopped this shot, but five shots got by him—as MIT tallied a 5-1 victory. (Photo by Steven Solnick)

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