

Thursday gets time to stall foreclosure

By Lee Giguere

The Undergraduate Association Financial Board Wednesday night reviewed the fiscal status of the newspaper *Thursday*, and agreed to defer final decision on its possible liquidation until March 24.

John Kavazanjian, Finboard member, had proposed in a memo to Finboard Chairman Neal Satten that *Thursday* be liquidated because, "when the virtues, financially and journalistically, are weighed, *Thursday* fails to justify its existence."

According to *Thursday's* Business Manager, Larry Eisenberg '74, the paper was defended on the grounds that it "hadn't been given a fair chance." Eisenberg explained that many of the paper's staff members weren't around over January and it had been impossible to initiate an ad program. Eisenberg claimed that it wasn't fair to judge the paper by its first issue this year. Another factor, of secondary importance, was "the feeling that there is a need on campus for a publication of this type [*Thursday*]."

Financial criteria

Eisenberg said that "three issues after yesterday's would give Finboard and *Thursday* a fair inclination of whether we can keep going profitably." Finboard's criteria for judging *Thursday* over the trial period are reported to be purely financial: whether they lose money or not will decide the issue.

While Eisenberg estimated *Thursday's* debt at around \$1500, he projected a "positive ad outlook" for the paper over the next few weeks. The staff, he said, is "really strong," and is

interested in moving the paper in a more "literary direction." Eisenberg mentioned the possibility of a regular literary section for the paper. No decision has yet been made, however, on whether to publish weekly or semi-weekly.

Accordingly to several people who were at the meeting, Satten stated that the Dean's office and Finboard had decided to keep the paper going. The Dean's office is reported to favor the continuation of the paper.

The complete text of John Kavazanjian's memorandum to Finboard appears on page five.

Thursday was founded by former *The Tech* staff member Jim Smith when he became dissatisfied with the latter paper. *Thursday's* financial difficulties, according to former Editor Tim Kiorpes, date from the winter of 1969-70, when the paper had difficulty in securing advertising revenue but continued with its weekly publication.

Common rally draws 5,000

By Alex Makowski

Several thousand young people gathered on the Boston Common Wednesday afternoon to protest the United States' role in SE Asia and the recent invasion of Laos.

Demonstrators marched to the State House from rallies held earlier at Northeastern, BU, MIT and Cambridge City Hall. About 200 people left from the Student Center steps here.

Guerilla theatre players and two speakers addressed the crowd before a mile-long march to Copley Square. Rally organizers urged the demonstrators to resist provocation and remain peaceful; there was no violence.

Only at Copley Square was there an incident. There a youthful marcher draped an American flag over a traffic sign and set it afire. It was half burned away before a helmeted policeman pushed his way through the crowd to throw the flag on the ground and stomp out the flames.

None of the well-known local anti-war figures spoke at the downtown demonstrations. Rally organizers explained that plans called for a speech written



Students converged on the Boston Common from three places: MIT and Cambridge City Hall, down Mass. Ave.; Northeastern via Huntington Ave. (above); and Boston University, via Commonwealth Ave.

Photo by Jamie Doubleday, courtesy NU News

and delivered by an area women's collective, as well as an address by local SMC organizer Joe Miles.

Miles, former GI activist, called for complete American withdrawal from SE Asia and linked the struggle against the war to the struggle against the

repression of blacks here in America. The women's speech similarly linked the anti-war movement to domestic struggles.

Following their speech, the women tried to affix to the locked State House gate a notice from "the people of Massachusetts" calling on the state government to honor the Shea bill passed last year and withdraw state servicemen from Vietnam. Policemen protecting the capital grounds refused to let the women near the gate; the women turned instead to start the march down Park Street.

The placards and signs the marchers carried bespoke a number of motives for the rally. "Free Bobby Seale," "Femme power," and "Free Puerto Rico" vied with the expected anti-war posters.

The demonstrators proceeded down Tremont Street and up Boylston behind a police escort that cleared away traffic. A few helmeted tactical patrolmen armed with heavy nightsticks were stationed at each intersection — an extra half-dozen guarded the IBM building at the corner of Clarendon Street.

Engineering respect falling

By Bruce Peetz

Dr. Daniel Gray, a former MIT instructor in economics, warned the engineering profession not to allow the quality of their work to be tampered with.

Speaking in a seminar Tuesday, Gray hit the pressure for economic optimization as a cause for poor technical quality. People in the engineering profession, he said, are restricted by

their specialization from seeing the quality in their work implemented.

"In our social engineering prison we have a hard time acting on the social ills that alarm us," Gray, now on the staff of Arthur D. Little, Inc., gave his reasons why the engineering profession had been blamed for products that pollute, malfunction, or are dangerous.

He primarily blamed the man-

agers of engineering firms for compromising the quality of consumer products, believing that the technical excellence engineers strive for and the economic optimization that managers demand are not compatible. Engineers must, he said, be aware of managers "discounting excellence by interfering in a timely way with engineering."

Gray also indicated public pressure for economic prosperity as a culprit for sacrificing expensive technical quality in consumer goods. He characterized the public's interest in prosperity as an obsession with the GNP.

(Please turn to page 6)

Quota, bus trouble Wellesley exchange

By Eric Small and Dave Searls

A quota system for the Wellesley - MIT cross-registration system has blocked several dozen Wellesley girls from taking courses at MIT this term.

Dean of the School of Science Robert Alberty, the MIT official charged with administering the program, explained that a "rough rule of thumb" limits the number of students registering for MIT courses to 120% of the number of MIT students registering for Wellesley courses.

This development and the overcrowding of the MIT - Wellesley bus are the most significant problems in the flourishing exchange program, which involves as the term begins about 750 students from the two schools.

Alberty explained that the cross-registration system is guided by the principle of avoiding the exchange of money: "Tuition costs for the schools are different," he pointed out, "and there is a

disparity in the real educational costs as well." The MIT exchange committee saw a need to set some sort of limit lest certain departments find themselves swamped with more students than they can handle. "There is nothing magical about the 120% figure — we decided that it represented about as much strain as the system could bear."

The quota is not absolutely inflexible. Late last spring MIT students had enrolled for 307 fall courses, but by the beginning of the term 120 of these registrations had been cancelled. Wellesley registration, meanwhile, had leapt from 342 late in the spring to 370 as the term got underway. Although Wellesley participation amounted to more than twice that of MIT, the MIT exchange committee decided that it was too late to cut any of the Wellesley women out.

Overcrowding of the MIT - Wellesley bus is a growing problem for the program. There are at present only two buses (for a

(Please turn to page 7)

Students accept rent hikes

By Buddy Miller

Last week's proposed "cost of living" increase for Institute campus residents seems to have brought surprisingly little reaction from the majority of those to be affected, as most students regarded the proposal as one of the necessary evils of the rise in the cost of living throughout the nation.

Certain parts of the proposal, however, were singled out as being unfair or at least unnecessary at the present time. John Halperin, MacGregor House president, deemed necessary the basic cost increases but disagreed sharply with the idea that the \$125,000 deficit should be removed by creating a \$25,000 per year surplus for the next five years.

His main point of disagreement lay in the fact that this year's freshmen, as well as those of the next four years, would be paying to eliminate a deficit they had no part in creating. He added that this part of the proposal is untimely in view of the fact that students and parents are being hit hard by the economic recession.

The only significant student reaction gained to date came from a meeting held recently at Baker House in which the residents of Baker were asked several questions concerning the proposed increases, especially as

to how these increases might affect their plans for next year. They were first asked if, with the proposed increases, they would remain in Baker House next year, and most said they would.

Second, they were asked if they would be willing to have their dining hall closed to eliminate their "Dining Hall Residence Fee." Very few Baker residents said they would be willing to have their dining hall closed.

Finally, they were asked if they agreed with the proposal to offer voluntary commons meals with the given cost increase plus the payment for the option of voluntary commons. The votes on this question were split about half and half.

There were a few complaints saying that students should be allowed to vote as to whether or not the option of voluntary commons should be offered, since the option would carry with it a special fee which each student would have to pay even if he elected to stay on commons.

These students charged that the ones who stayed on commons would be subsidizing those who elected voluntary commons. Housing and Dining Services has the deal balanced, though, in that the charge for the option will be \$55 to those who elect to go off commons

and only \$25 to those who stay on commons and in that each resident, regardless of whether or not he takes commons meals, must pay the "Dining Hall Residence Fee."

Professor Nafi Toksoz, faculty resident of Baker House, said he believes the increases in room rent and commons fees are well justified in view of the general rise in the cost of living. He added that these increases must be sufficiently large to cover future maintenance in order to avoid other deficits similar to the one now existing.

On the proposal for paying off the deficit, Toksoz agreed with Halperin in saying, "I think the students would have a good case in arguing against the proposal for paying off the deficit, because most of the students had nothing to do with creating the deficit and would be contributing to someone else's education rather than to their own."

Professor Toksoz added an opinion that, with enough student support, a movement against this proposal might possibly be successful.

In regard to the closing of the dining hall at Ashdown House, he thought the action necessary in that it is too small to efficiently produce a la carte meals and too close to Lobdell to justify having a separate dining hall.

Heresy at MIT?

By Alex Makowski

MIT has long prided itself on sweeping aside the curtains that veil scientific knowledge, but perhaps intellectual heretics have been leading us astray for the past few hundred years. Once science was a noble art, its answers to questions much more straightforward than the present mumbo-jumbo of sub-atomic particles and Doppler shifts.

The time is the twelfth century; the place, Oxford University, England. The lecture hall, filled with the dawn astronomy class, trembles in the flickering light of two candles. Once again the attendant warns the students present not to stray outside the college walls after dark — this past Sabbath eve the townspeople beat up yet another student. Then hands clap, everyone rises, and Ronaldess of Bath (known to present day undergraduates as Ron Bruno, MIT graduate student in physics) strides in wearing a cape and flowing gown.

The doctor's credentials are impeccable: five years of study at the University of Toledo, extended study of the works of Ptolemy, and the all-important blessings of the Church. Bidding the class be seated, he prepares his lecture notes and demonstration materials.

"Astronomy," he begins, "is undoubtedly the noblest science." It treats, for example, the noblest possible subject, the incorruptible heavens. Not the clumsy studies of medicine and law, but rather, astronomy, proceeding by a sure, proven, incontrovertible method. Finally, what better way to learn about God than to follow the path through the stars that astronomy provides?

Eight spheres

The universe comprises eight concentric spheres: earth, water, air, fire, moon, planets (Mercury, Venus, Mars, Jupiter, and Saturn), sun, and fixed stars (the firmament or *prima mobile*). The path of a half-circle revolved 360 degrees, the sphere is the only possible form for the various components of the universe. When compared with a cube, for example, it is apparent that a sphere is the only geometric solid that when rotated always turns into itself. The corners of a rotating cube sweep out areas of space the original surface did not fill. Were the constituents of the

universe cubes, God's natural order would be upset when rotation forced part of the planet cube into the fixed star cube.

Order

The order of the spheres is also important, bespeaking the transition from chaos to order, imperfection to perfection, involved in moving from the inner earth sphere through the middle spheres to the firmament. Ptolemy has well demonstrated that progression of time represents the rotation of the various spheres about a still earth sphere.

Obviously, man's own intellect is not powerful enough to determine this knowledge without help. Divine revelation, as interpreted and enforced by the Church, is an important factor, and observation also often leads the way to new theories. We can conclusively prove, for example, that the water in the universe must fill a spherical area: falling drops of water are round, water is homogenous, so all the water in the universe must be concentrated in a round shape.

Observation and logic

Similar combinations of observation and logic prove that heavier materials tend naturally to the center of the universe within the earth sphere. A handful of sand thrown into a pitcher of water sinks immediately to the bottom, demonstrating the tendency of the heavier earth to take its proper place below the water. Does anyone doubt that the earth remains still? The doctor asked two volunteers from the class to assist him. One of them held a pencil at eye-level and sighted to a spot on the floor. The other student placed his finger on the floor directly under the pencil. When the pencil was released, it fell and landed exactly on the finger, proving that the earth remained stationary. Similarly, we can demonstrate that the earth must be round, and calculate its circumference.

Basic elements

As far as the composition of everyday material is concerned, the four inner spheres hold the four basic elements: earth, water, air, and fire (see chart). Simple reasoning provides the explanation. Here on earth we easily recognize two fundamental, natural opposites — hot and cold, and wet and dry. These characteristics uniquely define the four elements.

For those unwilling to trust human reason, we can examine the reliable evidence our senses provide. Occasionally, God's natural order for the spheres is disrupted, and one of them will intrude upon the other. The results are violent, as anyone who has ever seen lightning (fire) spread across the sky (air) and heard the corresponding demonic rumble of thunder can attest. A piece of parchment

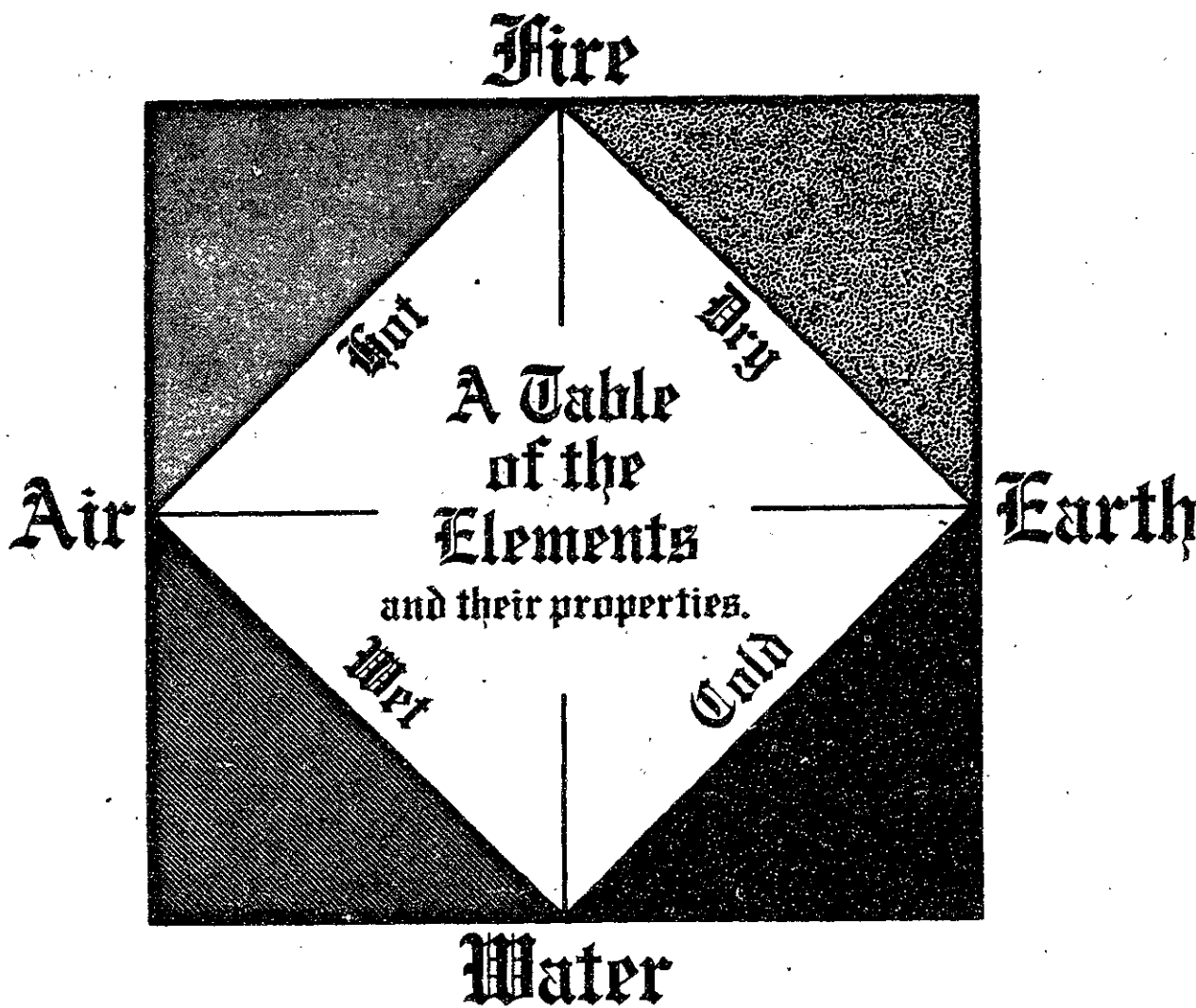
exposed to a similar area of violent intrusion succumbs and breaks apart into the three elements — earth, air ("smoke"), and fire — that constitute it.

Natural place

Here a student interrupted to demand how we humans could possibly see the planets and stars through the sphere of fire. The doctor replied that the fire remains invisible when confined to its natural place in the universe,

only becoming apparent to the eye when drawn into another sphere.

These and similar persistent questions prompted the doctor to issue a warning, the last and by far the most important lesson of his lecture. "Reason," he explained, "can only take us so far. When our reason seems to contradict the Church, we must rely on our faith."



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SCN271

Krzywicki runs for UAP

New Yale finance plan delays tuition payments

SAEior Bob Schulte to be running mate for March race

By Lee Giguere

John Krzywicki yesterday became the first person to declare candidacy for the post of UAP this March's elections.

Krzywicki, a resident of MacGregor House, is running with Bob Schulte, a senior from Gamma Alpha Epsilon.

At present, Krzywicki appears to have no likely opponents. The current UAP, sophomore Greg Chisholm, would have been a likely contender had he not stated his intent not to run for re-election when he took post.

With only a single candidate, this year's campaign promises to be low-key, and Krzywicki has stated that he will campaign mostly through personal meetings.

Platform

In an interview for *The Tech*, Krzywicki elucidated a seven-point platform: (1) the abolition and reorganization of the General Assembly and its ancillary structures, (2) the institution of a residence exchange program at Wellesley, (3) more coed living groups, (4) voluntary commons, (5) a new judicial system, (6) exploration of a New England college exchange program, and (7) a community-wide spring festival. Krzywicki added that he is exploring the question of advisory autonomy, but had taken any position.

Judicial system

Krzywicki stated that he would support the judicial system to be proposed by the MIT Admission's sub-group, of which he is a member. The details of the system are given in the group's report, to be released about two weeks. Krzywicki claimed that the proposed system would be reciprocal, giving students and faculty alike, contain a statement of rights and responsibilities, and fully delineate procedural details. The system, he said, includes provisions for an informal appeal. He stated he was very much in favor of it.

Student government

Krzywicki commended the referendum proposal for student government reform, noting that the idea of it was "reasonably good." He stated he was "all in" on the idea of orienting the Undergraduate Association as a subject office.

Former Executive Committee member, Krzywicki commented that that body "wasted" much time doing organizational work for the General Assembly. "A lot of projects are half done."

On the Student government, he said he should find out what things students want, and fill in the gaps so that these wants can be met.

Krzywicki placed a high priority on student activities, and objected to the present arrangement that allows the Undergraduate Association to decide the budget requests of activities.



John Krzywicki '72 and Bob Schulte '72, candidates for UAP and UAVP. Photo by Dave Vogel

GA criticized

Krzywicki criticized the General Assembly on several counts. He claimed that it failed to be truly representative for a number of reasons. The selection of representatives, he said, was not very good. Further, only half of the GA's members come to the meetings, and only half of those present vote on a given issue. He also argued that it lacks continuity. Last spring, he said, only six of the 72 representatives returned from the previous year, and frequently delegates would not complete their terms.

He felt, however, that the General Assembly could serve a useful role in providing feedback on student interests. Establishment of the Institute Council, he noted, would provide a good area for student input into decision-making. While it is "nothing obviously powerful," he explained that it might attract some good people and could exert influence depending on its membership. The undergraduate association, he said, should support the Council's student members in any effort they make to gauge student views.

Wellesley exchange

The advantage of a Wellesley residence exchange would be both social and academic, Krzywicki explained. It would give students a chance to broaden their educational programs by facilitating an increased subject load at the other institution as well as offering the chance of experiencing a different "social environment." He estimated an initial exchange of 20 to 30 students, but qualified this by saying it was just a suggestion, not a hard number. He also advocated exploring the possibility of initiating an exchange program with other New England colleges that would allow MIT students the opportunity to study at another institution.

Increasing the number of coed living groups, he noted, would involve work in several areas. Krzywicki explained that

he would encourage Baker House to start doing something since that group has already expressed an interest. He commented that it would probably take "a couple of years" before there was change in the MacGregor House position. Krzywicki advocated both the admission of coeds on an equal basis with men, and the Wellesley exchange as means of increasing the number of women at MIT. He also mentioned that more fraternities might be able to go coed.

Commons

Stating his support of voluntary commons, Krzywicki said he would "try to minimize" the costs to a student to get out of the commons program. He said that while he would like to see the cost be zero, he was aware that this would not be practical.

His proposal for a spring festival was patterned after Kaleidoscope of two years ago. It would include the scheduling of a number of interesting events on a single Friday, with "whatever suits the mood and times." The event, he felt, should be sponsored free-of-charge by the Undergraduate Assembly.

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By Lee Giguere
MIT is currently studying Yale's "tuition post-payment plan" with a view towards possible adaptation here.

Director of Financial Aid Jack Frailey explained that MIT will "study their answer," with the feeling that perhaps "we can come up with a better one."

The Yale plan, announced last week, provides for students to pay their tuition by turning over to the Yale treasurer a percentage of their earning - 0.4 percent for every \$1000 tuition deferred - for up to 35 years after graduation.

Frailey called Yale's plan "a courageous position" because "it's different and new." He added that MIT felt kinship "because of the problem we're both facing." Yale, he noted, had unsuccessfully sought help from the Ford Foundation. The university, he continued, was trying to make the plan "as safe as possible."

MIT, Frailey commented, has a "wealth of experience no other college has," because of the Technology Loan Fund which has been operating for 36 years. "We want to study extrapolations of our own experience."

Yale, he noted, has offered to cooperate by providing details of their program. Frailey noted that MIT is "interested in other approaches to the question of optimal borrowing."

The Yale plan is unique in that payment obligation depends on the gross income of the graduates. The program also provides that debt incurred by those leaving the university in one calendar year is treated as a unit. Once the total debt plus interest is paid, all persons in the group are relieved of their obligation.

Graduates may elect at any time to terminate the contract by making a total payment equivalent to one and a half times the tuition postponed, plus interest. Also, any student may opt for an immediate fixed interest obligation up to six months before his graduation.

Yale President Kingman Brewster emphasized that the tuition postponement option is experimental. Yale, he said, was encouraged to initiate the program by various foundation, government officials and university leaders.

The university would meet its operating expenses by borrowing the amount of tuition postponed.



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Wellesley Bus

To be brief, the situation with the MIT-Wellesley exchange bus this semester is awful.

Through extensive publicity, the schools managed to enlist nearly 900 cross-registrants. This is a record number, but despite this fact, bus service was held down to the same one bus per hour on weekdays that it was last semester, when the number of cross-registrants was much lower.

There was some trouble with the bus even then. Not only was the service often late, but the buses were admittedly ill-equipped, and on occasion broke down. On top of this, there was some crowding and bumping of people from the bus, resulting in the much talked-about incident in which an MIT student missed a Wellesley quiz because the bus was full and no one would get off to give him a place. (It should be pointed out that the bus was filled primarily with girls; given that this was a bus leaving MIT at 9 am, it is highly unlikely that they were Wellesley cross-registrants returning from their 8 am MIT classes.)

With the sharp increase in the number of cross-registrants, it was taken for granted by most people that the bus service would be improved. In fact, it has not. While the buses are keeping very well to their schedules and breakdowns are rare, the simple fact is that they don't run often enough. On many occasions, MIT students have missed classes scheduled for the next hour at Wellesley because they just could not get on the bus. One student of our acquaintance has missed three such classes in a row. The "hot seat" system is a failure. The front eight seats on the bus are not being reserved for cross-registrants, as the system is supposed to provide. MIT students with classes the next period have gone up to the bus driver, told him this, and have had him reply that the bus was full and that they could not get on. This isn't his fault; the bus is full.

The bus is even packed at so-called slack hours. Tuesday of this week, the 3:10 pm bus leaving Wellesley for MIT was completely full by 3:05 and left at that time. Since it was neither lunch nor dinner time, and since it was not a peak class time, one would not have expected this bus to be even half full.

The question arises as to what to do. Several students have suggested non-violent disruption by simply remaining in the doorway of the bus after it is "filled," and refusing to allow it to leave. We feel this action would be more dramatic than effective, with the ultimate losers being the students themselves who were already on the bus.

There are two other solutions, one of which must be adopted immediately. Either more buses must be provided at peak hours (which means most hours), or entrance to the bus must be made by cross-registration ID only, with others allowed only if there is room.

Clearly the first idea is preferable, but (of course) it costs money. Despite this obvious limiting factor, we still support it because we feel that MIT and Wellesley made this mess themselves by encouraging so many people to cross-register; and they are now stuck with the responsibility of seeing to it that everyone who registered for a class is provided with the means to get to that class. For the schools to abdicate this responsibility is strongly hypocritical.

The idea of allowing boarding only by showing cross-registration ID, is, of course, regrettable and represents a regression to the way the bus used to be run. Nonetheless, if the schools cannot or will not put up the money to run more buses, it is the only feasible alternative. One of these two ideas must be adopted immediately or students will be forced to drop courses simply because they cannot get to them.



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Due to the four-day weekend, The Tech will publish on Wednesday and Friday next week, rather than Tuesday and Friday.



Another rally on the Common

By Bruce Schwartz

Five thousand people, hardly enough to fill a corner of Boston Common, huddled against the cold on a February day during the war.

A new beginning, or merely an anemic replay of an old and tired drama?

It was hard to tell. One remembered the days when the Common filled with people, and what little seemed to come of it. October 15, 1969, peace and love and optimism, salted with a few red flags, My Lai a year old but we didn't know it yet. November 15, 1969, half a million freezing as the Washington streets filled with tear and pepper gas; Nixon watched television and the bombing went on. April 15, 1970, another hundred thousand on the Common and three thousand in Harvard Square, later and angrier, rocks through the windows and fire on the pavement; more gas and two hundred bleeding people.

May, and Nixon invades Cambodia; May, and the blood flows at Jackson State, Kent State, Atlanta. The students went on strike. They went to the people where they lived and worked and Congress began to feel the pressure. Congress balked at McGovern-Hatfield, passed

Cooper-Church; the school year ended; the crisis passed. Enter the great apathy.

After the bombing of Laos continued, explosives and fragments of deadly metal in greater profusion than ever before in human history. More blood.

Weatherman bombed, and there was great reaction.

Nixon shed crocodile tears for POW fliers, men who had distinguished themselves by bombing villages. And America showered the chemical death on Indochina, laying bare the land and corrupting the inheritance of generations to come.

All this, and very much more.

Thus materialize five thousand people, hoping to do what? And again, why? To end the war, yes, but if the tactic had failed to work in the past, then why...

Why not? What else to do? Something is better than nothing.

Look, there are only two conceivable ways of ending this war - assuming the only way out is unilateral withdrawal, which will incidentally mean the end of Thieu-Ky; the antiwar movement can persuade the government to get out, or it can force it to get out. The latter is tantamount to overthrowing the

government; it can't be done. Not soon. The former involved mass support; broad-based support. Public opinion that will scare the Congress again.

And if it doesn't work, well then, that many more people get radicalized. Which doesn't end the war soon, but maybe later...

Demonstrations do have effect. They force the administration to limit its tactics, undermining military effectiveness; and to resort to secrecy, deception, fraud, which further alienate the public.

And demonstrations do further the work of communication, and keep the spirit and purpose in the mind. So let spring begin, and perhaps this time, the war can be stopped.

But the Wednesday demonstrations, first actions of the new year, did not bode entirely well for the antiwar movement. It was good to see that winter had somewhat cooled factional disputes; SDS, SMC and People's Peace Coalition banners moved in relative harmony. But many of the marchers demonstrated a lack of discipline that cannot do well for antiwar efforts. Chanting "we don't want your fuckin' war" may turn off some bystanders; still, I won't be like the

Boston Globe and make more of that than of the war. But cursing and taunting bystanders, railing at them for not marching along - hell, that's no way to win support. A demonstration is an exercise in public relations. Gandhi knew it, King knew it; radicals have yet to learn it. Meetings will be going on in the next few weeks concerning organization of future actions, and the style of them ought to be considered as has not been the case in the past. Attention must be paid to slogans, chants, and signs that can appeal to and can wrestle with the hearts and minds of people who are not firmly committed to the antiwar effort. And while it is true, at least according to the polls, that a majority of Americans now oppose the war, it is not true that they understand how Nixon's strategy will not bring peace, the necessity for unilateral withdrawal, etc. Nor have many of those listed in polls as "opposed" to the war been galvanized into active opposition. Bringing more people into the movement has been a neglected pursuit the past couple of years.

The way to win people is subtle. You cannot rub their faces in the NLF flag, nor insult them for being not radical

enough. The Globe is, so right... the movement needs to improve its manners. Too often it gives the appearance of being hostile to the American people as well as the American government. (Often this boorishness is not so much a matter of collective behavior as of individual behavior.)

Enough belaboring of the point, however. Bad manners may be tactically unsound building antiwar support, that issue is not comparable

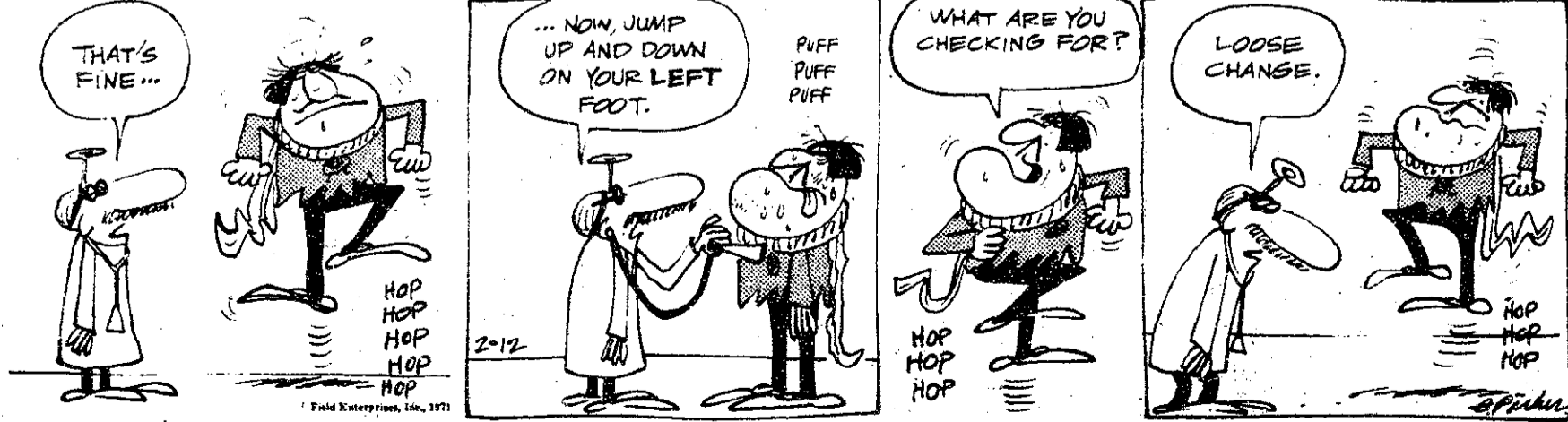
(What of racism, domestic poverty, unemployment, exploitation, social injustice, technological oppression? Are not these issues that must be intrinsic to an antiwar movement? and no. Yes, they must be posed. But not necessarily simultaneously, nor with the urgency. Sexual discrimination is harsh but not lethal in the same sense as napalm.)

And there is an urgency to the antiwar movement. Wednesday the Globe headlined "Ky sees North Vietnam as a quel to Laos"... the scenes unfold: in the twenty-one years ago, US South Korean troops crossed the thirty-eighth parallel. Soon China entered to save North Korea from falling. Can we expect less drastic results from drive into North Vietnam? would Washington react if enemy was marching on Mexico City?

We cannot wait for Congress they are transfixed with predictions and incursions. Under what disguise comes the outrage? If Nixon invades North, what is left that he not do, and what is left to save the choice between violence or being good Germans?

We had better get to work it now, and hope it bears fruit in this spring than last.

THE WIZARD OF ID



by Brant Parker and Johnny Hart

(The Wizard of Id appears daily and Sunday in The Boston Herald Traveler.)

Prospects for artificial intelligence

By Dena Kleiman

"You can take a child to Euclid but you can't make him think" — or so says Professor Seymour Papert, co-director of the Artificial Intelligence Laboratory here at MIT. Artificial intelligence has been an area of research since 1958. In 1963 it became a part of Project MAC, but, with the generous funds of the Advanced Research Projects Agency, the National Aeronautics and Space Administration, and the National Science Foundation, it has recently secured a separate status of its own.

When asked exactly what "artificial intelligence" is, Papert replied that intelligence is "being smart;" you do not have to define intelligence. "you know it when you see it."

He has a "goal oriented" theory, whereby he is interested in making machines intelligent and making people more so. Envisioning a time when machines will be doing things that people do, he is aware of the dangerous repercussions of such an achievement and admits to being worried. But, he fears, the possible disaster for humanity will stem from almost a self-fulfilling prophecy. "Humanists" are so convinced that machines cannot be intelligent that they are not concerned with relating to them. They dismiss it with the response "I'll worry about that problem when it comes."

Papert believes that the world would be safer if we all had a

"general understanding" of what this phenomena could mean. "We need lots of discussion" and the place for this talk should be universities like MIT. Papert is very critical of MIT for pretending to be a "pseudo-liberal-arts college." MIT should consider these concepts in all disciplines; but, he feels, because MIT has a complex about not being an art school, it fills its departments with untechnically-minded professors who are not interested in relating their fields to technological development. He feels that this is absurd in many ways because MIT could attract the best professors in the world for such concerns.

The Artificial Intelligence group, which is also directed by Professor Marvin Minsky, consists of about forty faculty members and students who are primarily from the Mathematics and Electrical Engineering Departments. Their attention is currently focused on robotics, natural language, machine vision, and learning. In their offices and laboratory, located at 545 Technology Square, one can view robots that can see, computers that understand English, computers that can create Baroque-style music, and a robot designed for children's use in learning geometry.

Through the use of a television camera and a computer, machines have been taught to see. In the form of a robot with two arms, the machine has learn-

ed to manipulate blocks which lie in its field of vision. This robot, however, still lacks knowledge. Terry Winograd, a graduate student, has taught another machine to understand English in a limited universe of blocks, pyramids and squares. It is commanded in verbal English and performs certain requested actions. Winograd's program may be coordinated to a robot in the near future.

Artificial intelligence research is also being conducted at Stanford University and Carnegie Mellon Institute of Technology. MIT, however, has the only group which is conducting research on education.

At present, Papert is teaching a fifth-grade mathematics class at The British School in Lexington, Massachusetts. He plans to start an entire school by September, 1972, working under the following philosophy of education: "brain power is based on superstition." As Papert points out, in a math class one will find some students who are more "gifted" in math than other students. People then conclude that only certain students are "mathematically minded." This same phenomena, however, can be found in a French class. All one need do is go to France to see that there is no such thing as a "French-minded person." Just as France is to French, Professor Papert wished to create a "Math-land" for math.

By means of a robot, which he calls his "turtle," the child is motivated toward mathematics. This robot is formally called a LOGO turtle and is a "cannister-shaped" object which lies on the floor. These turtles have been provided with sense organs so that they can touch, hear, sense balance, and, in a limited way, see. There is even scope for different "turtle personalities."



Professor Marvin Minsky with one of the robots built by the Artificial Intelligence researchers. Photo courtesy MIT/PR

These robots move around by means of a computer which is in turn controlled by the child.

To learn about triangles, for example, the child types out on his console the measurement for a side, a 120 degree angle, a side, a 120 degree angle, and a side. The turtle then moves in the shape of a triangle. The child can learn about semicircles and direct the turtle to move in that

formation. Finally, the child will combine two semi-circles and two sides of a triangle which will make the turtle move in a heart-shaped form. So far, the artificial intelligence method has only been used in "Math-land," but Papert is working on creating an "IQ-land in which everyone would grow up with Stanford-Binet scores above 180."

Thursday's finances may induce failure

Memo to: Neal Satten, Finboard Chairman
From: John Kavazanjian

In the past year, many of the newspapers on campuses have been in financial straits, and the newspapers at MIT are not exempt from it. One of these, *Thursday*, is in the worst shape of all, listing its debts on the order of \$3100 at one point, with assets about \$1500 or less. *Thursday* was brought back into a more secure, but still dangerous position with the editorship of Tim Kiorpes, who all but put out the paper by himself. Time limitations forced Kiorpes to quit and the paper was in limbo from December 1 through most of January until Daniel Dern assumed the editorship. He tried for several weeks to bring out a paper, and then finally did, showing a net loss and virtually no local advertising. It is my opinion, that when the virtues, financially and journalistically, are weighed, *Thursday* fails to justify its existence, and should be liquidated.

It seems unfair to give the present management such a short trial but the reality of the situation dictates it. The format and finances for *Thursday* are geared to a partisan publication, responsive to the audience that relates to it. The availability of staff must be assumed to relate

to its popularity and appeal, and therefore to the justification of its existence. It is not a vehicle for communication, to be driven by anyone who wants to foster his particular views and prejudices. I am not denying that perhaps such a vehicle publication should exist, but I am denying that *Thursday* should be or has any potential for such.

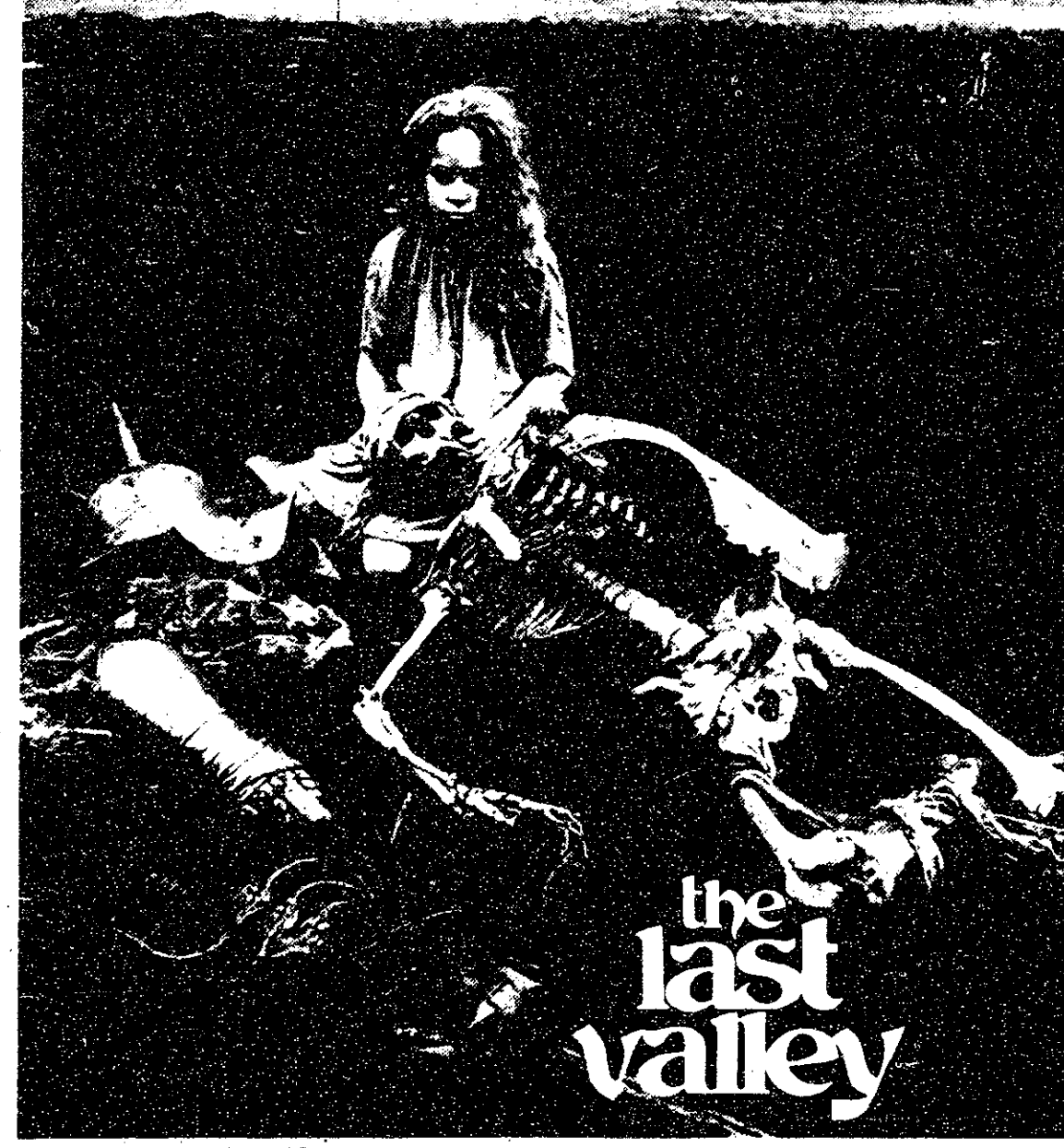
We of the Finance Board now have a choice. We can let *Thursday* continue, flounder along, reach some stability, and have it dumped over to another editor who sees it as part of his inspired but short-lived inspirational crusade. I sympathize with those who have worked hard to keep it alive, but our choice is to kill it now, or let it die expensively later. If it was not worth it, few will miss it. If it turns into a good martyr, maybe it will wake people up to the newspaper 'crisis' that we have.

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Product quality off; economic reasons cited

(Continued from page 1)

According to the GNP, Gray said, pollution is a financial plus, since it creates employment for cleaning people, filter specialists, and chemists.

The audience, however, missed the point. In reply to an adverse question, Gray indicated that the relative benefits in corporations are primarily made in the service of the economic interest only, rather than in the service of all. He stressed that engineers, to overcome this, must widen their responsibilities and take careful note of how their work is being used.

Also speaking was the President of Arthur D. Little, Howard McMahon, who key-noted the seminar.

As little as ten years ago,

according to McMahon, "the engineering profession was elite, and their products were admired." Now, however, technical and engineering values are in question and social ills are routinely thought to be caused by technology. Various problems in ecological balance are traced to advancements in fertilizers and pesticides.

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Grapplers take Tufts and five of last six

By Bill Gahl

Having strayed off course due to injuries and inexperience the first half of the season, MIT's wrestling team has finally straightened out to compile an even 6-6 record, winning 5 of its last 6 matches. Indeed the team was in dire straits before the return of B.J. Davies at heavy-weight, Paul Mitchell at 167, and Ed Hanley at 126. Furthermore, with Dave Keuntz cutting to 158 and Gary Pullar immensely improved at 190, the team shaped up enough to put every match straight to the opposition in some of the most exciting wrestling the fans have witnessed at MIT in recent years. John Backlund, a consistent victor at 118, Jim Cook at 134, Rich Hartman at 142, Bill Gahl at 150, and Mike Murphy at 177 round out a team that balances its inexperience with endurance, its dehydration with desire, its levity with longevity. Here is a team with lasting promise, promising first to last the season, and last to best expectations.

The victories were straightforward. MIT trounced Boston College 46-0, as 8 of 10 grapplers pinned the Eagles' shoulders straight to the mat. Then in MIT's Quadrangular, the team

beat tough Wesleyan and C.W. Post teams by scores of 21-19 and 19-17. The heroes who emerged were Hartman, who took down his opponent in the last 10 seconds to break a tie in his match and secure the team victory over Wesleyan, and Pullar, whose hard-fought match against C.W. Post finalized the other win. No less a hero, though, was Backlund, whose pin points were decisive. (The team receives 5 points for a pin, 3 for a win.) New York Maritime was out to reach to all three of the other teams.

From that rigorous weekend, the wrestlers went straight to WPI on Tuesday to defeat that spirited club, 24-18. Hartman and Pullar came through with pins for Tech. Wednesday the grapplers crushed Tufts 41-3, pinning honors going to Hartman, Mitchell, Bob Gahl, and Davies.

The team now hopes to ride the waves of triumph straight into the New Englands, where each of the grapplers has some scores to straighten out. In the meantime, look for the team Saturday in DuPont at 3:30 pm to keep Williams on the straight-and-narrow.

Exchange enrollment up

(Continued from page 1)

total of nearly 1000 participants) and the budget does not allow for more. In addition to cross-registered students attending classes, members of both student bodies use the bus for other academic and social purposes, sometimes causing the legitimate students to miss classes. If social pressure to give these students priority fails, then the old system of tickets will have to be reinstated. Cross-registration ID's are issued and could serve as tickets, but the bus drivers, although they are willing to take tickets, will not check ID's.

Both Jane Sauer and Diane Flaser, exchange coordinators for MIT and Wellesley, respectively, said that they feel the exchange is going well, despite these problems. Both mentioned that the committee in charge of the exchange is contemplating more joint programs and jointly-taught courses, and the possibility of cross-residence is being seriously considered. Mrs. Flaser commented that the exchange is not creating genuine co-education, in that only the classrooms are directly affected. However, the relationship between schools is a valuable one in that both the physical and mental environments are extremely different. Science distri-

bution requirements for MIT students can be and often are satisfied at Wellesley. The most popular fields are the social sciences and the humanities, especially psychology, but virtually every department has some cross-registered students.

Some of the most important aspects of the exchange have little to do with the classroom. Mrs. Flaser describes it as a variation of the "grass is always greener" outlook. MIT students like to escape from the large, predominantly-male city school and find Wellesley relaxing. Wellesley students, on the other hand, like to leave the atmosphere of the small, suburban girls' school, and find MIT and Boston exciting.

In general, both faculties and student bodies are enthusiastic about the exchange program, now in its third year. This is reflected in the growing number involved and in the increased range of activities. Miss Sauer and Mrs. Flaser both feel that the severely limited budget is being well utilized. The future of

the exchange depends largely on the amount of funds to be made available and on the decisions of the committee, but the response of the participants is encouraging even in the light of the problems it raises.

18-year-old to run for School Committee

Lisa Potash, 18, became the first announced Socialist candidate for School Committee in this year's municipal elections last night. Potash spoke at a well attended Socialist Cambridge Campaign Kick-off Rally at Harvard Hall in Cambridge. She stated that because of the proportional voting rules in Cambridge, she felt she had a real chance of winning a seat and went on to say, "I feel I am the candidate of all the people of Cambridge who are concerned with and in motion over the issues of police brutality, rent gouging, and the general lack of quality in the Cambridge schools, and these issues will play an important part in my campaign."

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Let's face it, people, somebody blew it and the classified ads are three inches short. You can help us avoid this problem in the future by placing classifieds in *The Tech*. The rates are \$2.50 for the first insertion and \$1.25 for each subsequent insertion of each increment of 35 words or less - and our classifieds get results.

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The Tech Sports

Wheeler paces cage squad, wins honors

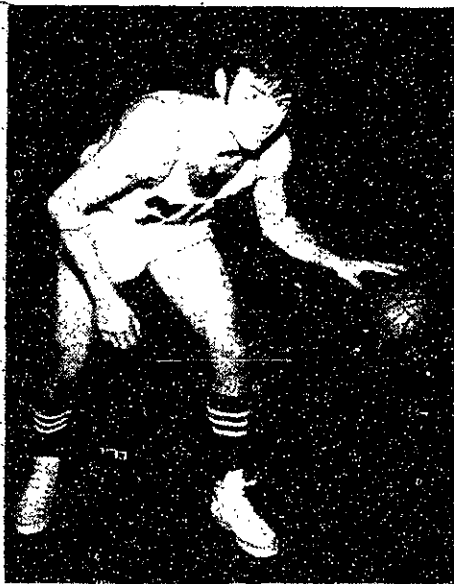
By Randy Young

Despite having started slowly at the beginning of the season, Tech basketball ace Bruce Wheeler has regained the form which has made him one of the best backcourt men in recent MIT history. The 5'9" senior captain, who hails from Schenectady, New York, sports a 12 points-per-game scoring average, and was team high scorer in last Friday's clash against the Coast Guard Academy. At the end of January, Wheeler averaged 16 ppg in a six-game streak, and shot better than fifty percent from the field. He was elected to the Eastern Collegiate Athletic Conference's All-East weekly college-division basketball squad for his efforts.

During the 1967-68 season, Bruce teamed with forward Dave Johnson to lead the MIT hoopsters to the team's most recent winning season. Averaging 14.7 ppg, Wheeler was named to several ECAC weekly All-East teams. Also a fine baseball pitcher, Bruce, a righthander, won six games as he paced the squad to one of their finest seasons ever. The six wins included two complete game triumphs over NCAA regional finalists Harvard and Boston University. To top off the season, he was named Most Valuable Player

in the Greater Boston Baseball League, becoming the first MIT player ever to win the honor.

After a year off as a transfer student at Princeton, Wheeler returned to the MIT cage squad to average 10.6 ppg and shoot at a fine 41% pace. That year in baseball, he won four out of six contests, and batted .292 for



Bruce Wheeler. *Jeipphoto*

twelve games. He also won GBBL All-Star laurels again, this time as a utility infielder.

A 1966 graduate of Mohon- asen High School in Schenectady, where he lettered in football, basketball, and baseball, Wheeler is majoring in physical sciences and humanities.

Swim marks, Tufts downed

The varsity swimming team avenged last season's controversial 49-46 defeat to Tufts in fine fashion, as they trounced the Jumbos 72-41 on Tuesday at the Alumni Pool.

For the third meet in a row, diver Ed Rich '72 captured both diving events. Although he was a butterflyer as a freshman, Rich has quickly developed into one of the finer divers around.

Tufts jumped off to a 7-0 lead by winning the opening relay, but this was both the first and last time they held that lead, as they were able to capture only one more first place.

Sophomore Ed Kavazanjian and co-captain Larry Markel '71 quickly evened up the score with a one-two finish in the 1000 freestyle. Both Tech swimmers cracked the old pool and school mark of 11:10.7, with Kavazanjian edging Markel by .3 second in the time of 11:06.7.

Freshman Ken Epstein continued his fine swimming with an easy victory in the 200 freestyle. Teammate Bob Paster '73 was just edged out for second place by the Tufts swimmer.

Geof Morris '73 was also an outstanding performer as he tied the varsity record in the 50 yard freestyle with a 22.6 clocking, edging teammate Pete Sanders '72 by .2 seconds.

Co-captain Al Graham '71 returned to the form which earned him All-American honors two years ago, winning the individual medley in 2:08.6, one of the best times recorded in New England this year.

In the tough 200 butterfly, Tom Peterson '73 lost a heart-breaker. Leading at the 100 mark, he couldn't hold on and wound up in third place.

Morris and Epstein finished 1-2 in the hundred freestyle and Graham triumphed in the 200 yard backstroke. Kavazanjian

and Markel continued the Tech onslaught with another 1-2 finish, this time in the 500 freestyle.

The most impressive performance of the meet could easily have been Pete Sanders' 200 yard breaststroke. Sanders broke the varsity record by two seconds, turning in the best time for that event this year in New England and qualifying for the nationals. Dave Lawrence '71 finished third.

To top off the impressive victory, the freestyle relay, consisting of Graham, Epstein, Kavazanjian, and Morris, turned in an excellent 3:21.9 clocking.

Until Tuesday, MIT was a decided underdog against Amherst in a meet scheduled for 2 pm tomorrow at the Alumni Pool. But coming off the tremendous performances against Tufts, Tech should give Amherst a tough battle in one of the year's most exciting meets.

Field team shines in GBC

Although MIT's indoor track team didn't fare exceptionally well in the Greater Boston Collegiate Athletic Association (GBCAA) Championship meet held last Friday and Saturday at Harvard, several individuals turned in noteworthy performances to aid the Tech cause.

Dave Wilson '73, the engineer's top pole vaulter this year scored highest for the thin-clads, clinching second place in the vaulting with an effort of 14-6. The event was won by Jim Carisella of Northeastern with a

record leap of 15'1 1/2".

Sophomore Walt Gibbon also came through to leap 6'4" and place fourth in the high jump contest.

A number of Tech tracksters turned in fifth place rankings; to add valuable points to the MIT total. Scott Peck '73 placed in the long jump with an effort of 21'8 1/2". Bob Tronnier '73 took third in his preliminary and semi-final heats of the 60-yard hurdles, and scored a fifth-place finish in the final, making him the only Tech runner to place in

a final event. Co-captain Pat Sullivan placed fourth in his heat of the 1000 yard run trials. The final was won in a meet-record time of 2:11.3 by Dave Elliot of Harvard.

The final team results found Harvard winning with 104 1/2 points, Northeastern with 53, Boston College 44 1/2, Boston University 36, Tufts 20, and MIT 13.

The team's next meet is scheduled for February 20, versus Colby College at Waterville.



Marcia Keyes (11) drives through crowded Wheaton opposition in Tuesday's game, as Maria Bozzuto (left) follows up the shot. *Photo by Sheldon Lowenthal*

Women's B-ball

By George Vitek

MIT's women's basketball team lost their first game of the season Tuesday night, 57-14, to a strong Wheaton College squad. The girls led in the opening minutes 4-3. Midway in the first period, Wheaton led 8-7 and then broke the game open in the second period by outscoring MIT 12-1. In the second half,

the Wheaton defense continued to bother the Tech women, and the game ended 57-14.

The girls hope to bounce back and even their record on Thursday night at Mount Ida at 7 pm. If all you male chauvinists can't believe that there is girls' basketball at MIT, liberate yourselves at the next home game, Thursday, February 25.

Upcoming IM's scheduled

The Intramural Council has announced that a number of IM activities will be beginning in the next few weeks, including badminton, table tennis, and the IM wrestling tournament.

In a letter to athletic chairmen, David Taylor, the IM table tennis manager, noted that the season will be starting Sunday, February 21, and will run through the first week in April. A final tournament will be scheduled for after Easter. Games will be played on Monday through Thursday at 7:30 and 9 pm.

Three leagues will be sponsored, each composed of several divisions. Past performance and team requests will play a role in league selection. All "A" teams, the top two "B" squads, and the winning "C" team will be eligible for the final tournament. Teams will consist of only two

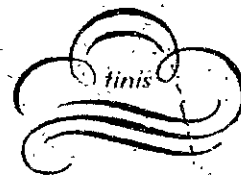
members, and matches will be played on a best three-out-of-five basis. Rosters must be submitted to the Intramural Office by 5 pm this afternoon.

February 22 will mark the beginning of the IM badminton season. Teams consisting of four or five players will play matches on Monday through Thursday nights and Sunday afternoons in the Armory. Rosters and game-time preferences must be turned in to the IM office by February 19.

This year's IM wrestling tournament has been scheduled to take place on March 13 in the DuPont Athletic Center. All wrestlers must be eligible according to the rules detailed in the IM Handbook, and rosters must be in by Wednesday, March 3. Roster changes will be accepted up until 8 pm Sunday, March 7. A complete squad will consist

of nine men, one each for the following weight classes: 120, 134, 142, 150, 158, 167, 177, 190, and Heavyweight. Matches will consist of three periods of 1 1/2, 1 1/2 minutes each, with finals having a 1, 2, 2 allotment.

A seeding committee meeting for all interested athletic chairmen will be held at 7:30 pm on Thursday, March 4, at 484 Beacon Street.



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