

Pollution economics viewed

By Tom Finger

Dow Chemical Company president Herbert Dow Doan spoke on corporate responsibility and pollution before a Sloan School audience of fifty persons last Wednesday.

MIT, apparently overly wary of trouble, assigned three extra police officers to the various Sloan building entrances.

Four main methods of reaping profits from pollution control were offered. For a few companies, direct sale of new pollution-control devices or processes would be profitable. Secondly, by controlling wastes or recycling, a plant saves useful materials ordinarily discarded. As another resort, tax incentives could be used. Finally, increased costs could be passed on to the consumer. This final point is now hotly disputed in economic circles. Companies have been disposing of wastes by utilizing resources such as air and water without charge. Therefore, consumers are already subsidizing corporations by giving away potentially valuable resources.

However, Doan pointed out that raising prices brings in the threat of foreign competition. For example, in the copper industry where non-polluting production requires abandonment of old facilities, Doan predicted that one-third of the nation's copper smelting plants would soon be out of business. The resulting necessity to import copper would badly effect the US balance of payments.

Doan also indicated that industry should be more responsible in the investigation and elimination of possible pollutants. In addition, he suggested that companies be required to submit annual public pollution statements similar to annual financial statements. These pollution reports would list pollutants



Photo by Tom Finger

emitted as well as corrective measures being used.

With regard to the old Dow napalm contract, Doan claimed that it is not a corporation's place to make foreign policy decisions. If Dow were to oppose the Vietnam war, it would follow that Dow should also release statements on the Mid-

east, China, Russia and the U.N. Dow no longer manufactures napalm as it was underbid by a west coast firm.

Herbert Doan retired as Dow president effective February 4 of this year. He had worked for Dow since 1950 after receiving a B.S. in Chemical Engineering at Cornell.

Office to pool media services

By Alex Makowski

Hoping to facilitate communication with both the campus community and outside news media, MIT has established a new Institute Information Service (IIS).

The office will consolidate under one administrator public relations, campus information, and publications. Vice-President Constantine Simonides expects that the move will improve service and lower costs.

Previously the director for public relations was charged with supervising the other two departments along with his own office. Gradually mounting pres-

ures to deal with the outside press forced neglect of the internal services.

Pressured

One objective of the shift is to increase the amount of information available to students and faculty. The administration has been pressured over the past few years to be more open with the community.

A possible vehicle for achieving this objective, explained Robert Byers, current acting IIS director, would be an official administration weekly newspaper. Besides replacing the familiar "gray envelopes" by transmitting such items as faculty appointment and retirement notices, the gazette could focus on news and features particularly amenable to "official" coverage. *Tech Talk* provides a ready example of the type of news that could be handled, though Byers envisions a wider scope. Currently a research team chaired by *Technology Review* editor John Matill is investigating the financial and personnel possibilities.

Reaching students

Another problem to be tackled involves reaching the sizeable number of students who find such campus information uninspiring or irrelevant. Much of the pressure for more communication has come from an aggressive liberal and radical student core of 500; 7,500 currently "turn off" all administration publications. Success in involving this larger segment is another goal of

Room, board, tuition climb to \$4,900 total

By Kyle Richardson

(Editor's note: This article is the first in a series about MIT's financial difficulties: their causes, their effect on curriculum, and possible remedies.)

\$4,900 will be the figure under the heading "Standard Budget" on student financial aid awards this year. Up nearly 10% from last year's figure of \$4,500, the student budget is expected to increase by 10% increment again next year, to \$5,300. "This year's figure of \$4,900 is within \$100 of that of Harvard, Yale, Cal Tech, or Princeton. The point is that it just keeps on going up. We don't see an answer," commented Jack Frailey, Director of Financial Aids.

A tuition increase from \$2,500 to \$2,650 is only partially responsible for the increase in the budget. In addition, room rates for on-campus students will increase anywhere from 9% to 23% next year. Ashdown, Bexley, and Random Halls will go

from \$515 to \$560 per year. East Campus will increase from \$515 to \$580. West Campus on commons and off commons will go from \$585 to \$690 and \$720 respectively. East Campus commons will rise from \$594 to \$639 per year.

These increases, reflections of MIT's growing financial difficulties, are producing grave problems at the student financial aid level. Sources of student financial aid are presently only jobs, scholarships, and loans.

Nearly 1700 undergraduates received "job awards" on their financial aid grants this past year. The job market is tightening, however, and the job awards are not guarantees of employment during the school year. They actually only represent an attempt to fill an average gap of \$600 between student's expenses and the amount of aid the Financial Aid Office was able to grant or loan.

This gap of \$600 is expected to rise in the coming years, and an increase in the number of jobs does not appear to be the solution, according to the Financial Aid Office. A student cannot spend more than 10-15 hours per week on a term-time job, and, unless wage rates are increased, the job will make up less than 10%-15% of the total financial need.

Scholarships are not the answer, either. Endowment funds for scholarships are not expected to increase. Furthermore, the Federal Educational Opportunity (Please turn to page 7)

the restructured information service.

As for rumors that the administration might be trying to squeeze out the student newspapers, both Simonides and Byers assured *The Tech* that no such end was desired. Simonides suggested that the administration information would provide (Please turn to page 7)

Briggs Field mephitic dismays passers-by

By Seth Poole

(Editor's note: "mephitic: n. 1. An offensive smell; stench. 2. A poisonous or foul-smelling gas emitted from the earth." - *The American Heritage Dictionary*)

For the past several weeks, persons frequenting the area around Briggs Field have noted a rather disagreeable phenomenon: the unmistakable odor of animal feces seems to hang heavily in the air. The effect is most pronounced when the playing field is not covered with snow, and is particularly noticeable when the temperature is above freezing.

Distinctive redolence

The reactions of the vast majority of individuals to this distinctive redolence seem to follow remarkably consistent behavioral patterns. The initial and characteristic grimace is immedi-

ately followed by a close examination of the bottoms of the shoes; dismay gives way to confusion and, in most cases, the eventual conclusion that the odor is localized. However, the realization of the individual that the stench is doggedly following him home gives rise to more puzzlement.

What is the origin of the feces? Simply, it is this: Briggs Field is essentially a swamp, with no drainage worth mentioning. Any water formed by the melting snow stays where it is, until it evaporates. In the meantime, the grass beneath the puddle rots and creates the distinctive odor. Undoubtedly many of the bacteria at work there are also to be found in the intestines of many students, amidst the Commons residue; hence the striking resemblance of the smell to that of human excrement.

Nothing to be done

What will be done? Probably nothing. MIT was built on swampland, and as long as there is water and grass there will be *E. coli* busily at work. But the situation cannot help but lend credence to what might be a prophetic statement: sophomores will readily recall that, as incoming freshmen, they were told by Mike Albert that MIT was a "cesspool" - literally, if not figuratively.

MITRE, Navy incite SDS demonstration

By Lee Giguere

MITRE Corporation and Navy recruiting at the MIT Placement Office sparked SDS-UAG to hold a rally Friday morning and attempt to confront the recruiters.

After a 20-minute rally in the lobby of building 7, about 25 protestors marched to the Placement Office chanting, "Off the bosses' armed forces, MITRE means murder." At the Placement Office, Robert Weatherall, Director, spoke with the group, however, neither the MITRE nor the Navy recruiters appeared to speak with them.

MITRE was charged with developing a number of weapons, including guided missile guidance components and counter-insurgency devices. SDS-UAG also accused both MITRE and the Navy with complicity in Vietnamese war crimes. Bombing in Vietnam, they said, had forced over a quarter of its population to leave their homes.

The protestors alleged that Weatherall was implicitly supporting the United States in committing these "war crimes" by allowing MITRE and the Navy to recruit on the MIT

campus. They cited pre-world War II Germany as an example and asked him what he would have done there. Weatherall defended the right of students to work for whom they choose, and said it was not up to him to prohibit them from working for certain companies.

This discussion, which lasted about an hour, took place outside the Placement Office itself, while the Office's door was guarded by members of the Campus Patrol. The rally and meeting with Weatherall were without any incidents, and the protestors did not attempt to block access to the Placement Office itself.

Grants given in economics

Twenty-five graduate students and 15 undergraduates from the New England region will be appointed by the New England Board of Higher Education (NEBHE) to 12 week internships with regional, state, and local economic development organizations.

Graduate students will receive

a net educational allowance of eighty-eight dollars (\$88) per week; undergraduates will receive a net educational allowance of seventy-eight dollars (\$78) per week. Up to two-hundred dollars (\$200) will be allowed for travel and miscellaneous expenses.

Application forms and fur-

ther information can be obtained from the offices of Dean of Students, Department Chairmen in the Social Sciences, Business, Mathematics, or by writing to the attention of Norman Stein, Project Director, New England Board of Higher Education, 20 Walnut Street, Wellesley, Mass. 02181.



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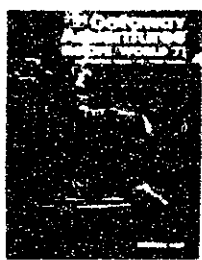
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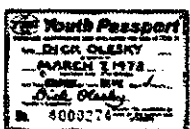


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Automaton plays with blocks

By Bob Lefkowitz

A year or two of high-level research at Project MAC has culminated in the development of a robot that matches the ability of a two-year old child to play with blocks.

At a Tuesday afternoon seminar, Professor Patrick Winston described recent Artificial Intelligence (AI) efforts to tackle such fundamental problems as pattern recognition and communication by spoken English.

He explained that AI research is moving out of an "Era of Exhibition" that involved specific programs to "show off" the aptitude of computers. Having convinced people that computers are capable of handling complicated problems, researchers have been able to approach tasks requiring much more versatility from the computer.

'Playing with blocks'

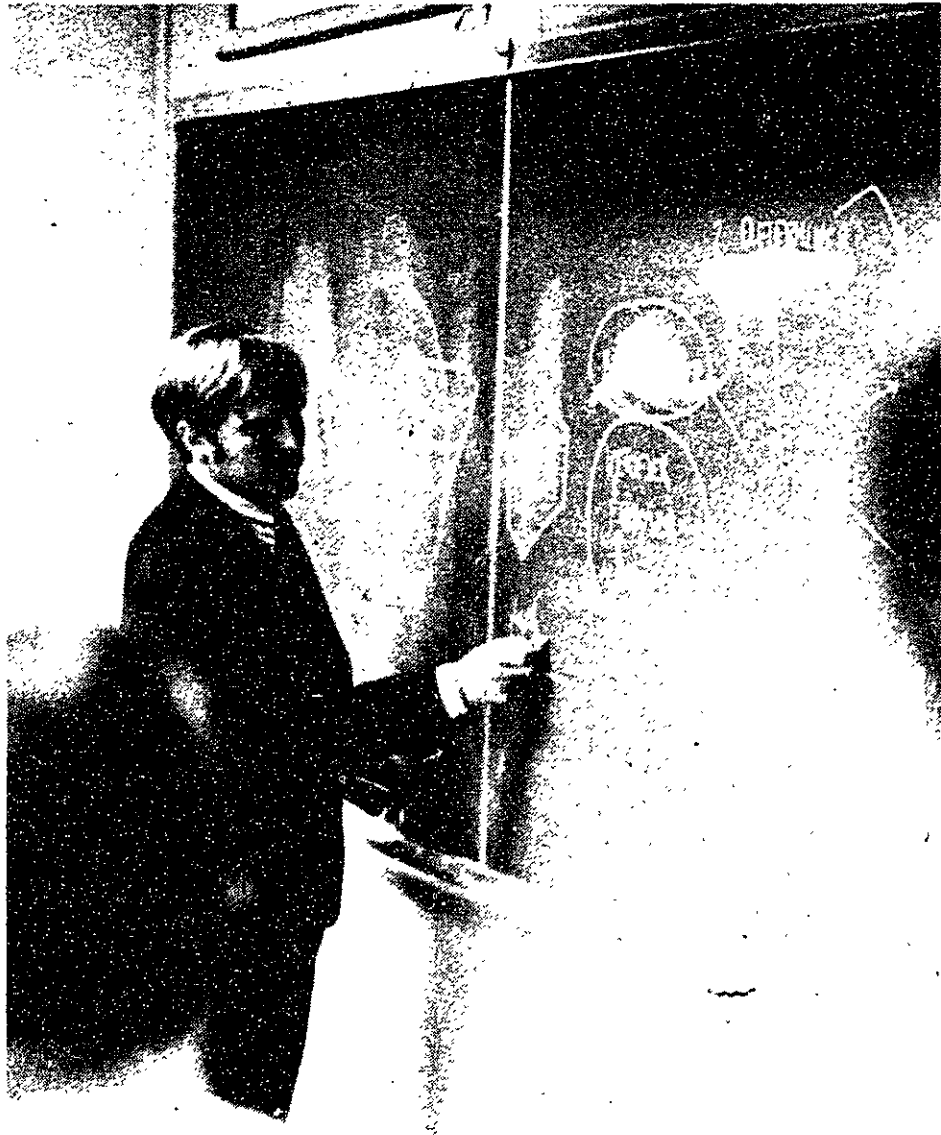
"Playing with blocks" marks a sample of the research done in the important area of pattern recognition. Such abilities, though well-developed in very young children, are difficult to dissect and feed into a computer.

The Project Mac robot is equipped with an "eye," an arm, and two "fingers." A structure is constructed from several blocks, the number of which is restricted by memory to half a dozen or less. Given a supply of spare blocks, the computer will reconstruct the mirror-image of the structure, or take the structure apart block by block.

Complex sequence

This seems trivial, but is in reality a complex sequence of steps. The first is to draw the structure. The robot does so with its "eye," and constructs a line drawing, lines appearing wherever there are any significant changes in the amount of reflected light.

This line drawing is then processed by the "bookkeeper." This subroutine accounts for the lines and "complains" when unwanted ones appear, or needed



Professor Patrick Winston details Project MAC's pattern-recognition program. Photo by Dave Vogel

ones are missing. This is checked by the verifier, and finally, an accurate two-dimensional line drawing is obtained.

Then the body finder is called, to pick out which of the two-dimensional figures are members of the same blocks. And to complete the first phase, the Z-determiner sets up z coordinates for all the bodies.

Final steps

This completes the first phase, because, until now, no action has been taken to either take apart or rebuild a similar

structure. The approach the robot takes to building a similar structure is to analyze how it would take apart the existing one, and then reverse the process. The final steps are much easier than the first few, and simply consist in deciding which blocks to move first, and then doing so.

The robot so far deals only with blocks that are rectangular parallelepipeds. However, a week or so of study should introduce triangular prisms and other shapes.

Announcements

* **IMPORTANT** - There will be class officer elections concurrent with the UAP election scheduled for March 3. Petitions should be picked up in W20-401 and returned by Friday, February 26th.

* Harvard University Professor C.C. Lambert-Karlovsky will give a lecture on the recent discovery of a 5000 year old site in southern Iran. This lecture is sponsored by the Iranian Student Association of MIT at 7:30 pm, Thursday, February 25, in the Student Center mezzanine lounge.

* An exhibit of photographs and slides of IAP is being planned as part of the Main Corridor Project. Anyone who has material which might be included should get in touch with Joanne Miller in the News Office, Room 5-105, x2701.

* Alpha Phi Omega, National Service Fraternity, is working on a project to eliminate architectural barriers to the handicapped from the MIT campus. The first part of this project is a survey of handicapped members of the MIT community. If you have any kind of physical handicap, please call APO at x3788 or Dorm Line 9685.

* The Tech Catholic Community and the United Christian Fellowship announce an open seminar: Who Needs a Church? A discussion of the role of organized religion with Rev. Stanley F. MacNevin and Rev. John Crocker Tuesday, February 23rd, at 7:30 pm in the McCormick Brown Room. All fanatics, believers, atheists, prophets, heretics, dissidents, agnostics, etc. of all religions are welcome. Please come and help discuss student attitudes. Refreshments will be provided.

* The Work of Wilhelm Reich is to be the topic of a talk by Myron Sharaf, Assistant Area Director, Boston State Hospital, Tuesday evening, February 23rd in room 7-345; 6 pm for communal supper, presentation and discussion at 8 pm. Sponsored by the Open Forum on Human Ecology.

* People interested in building a revolutionary socialist organization on campus are urged to attend a meeting of the Rosa Luxemburg Committee at 7:30 pm, Tuesday, February 23, in the Student Center (the room number will be posted). Discussion will focus on anti-war activity at MIT and related issues affecting the MIT community.

* This week's Thursday Noon-hour Concert will be a solo clarinet recital by Ray Jackendoff. The program, to begin at 12:10 in the MIT Chapel, includes Violincello Suite 1 by Bach and Three Pieces by Stravinsky.

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'Official' newspaper

A restructured information service and an official administration weekly were both somewhat predictable developments from events over the past few years. Falling revenues and the clearly recognized need to reach both the faculty and the outside press more effectively prompted the search for new means of distributing information. Many universities across the country have experimented, more or less successfully, with an administration-published regular newsletter.

We see good reasons for welcoming both innovations. We expect the faculty are as tired as we are of sifting through the ever-deepening pile of

gray envelopes bearing news of appointments in some far-off corner of the campus. A new format for presenting such information may well increase the community's receptiveness.

Dispelling the fears of an official propaganda organ driving the student papers out of business, though, is the responsibility of MIT's students and faculty. As long as the campus recognizes the value of having an independent paper like *The Tech* always watching and evaluating the bureaucracy, student papers will fill an important place at the Institute.

IAP evaluation

By Lee Giguere

"The general environment at MIT is too narrow: it does not adequately encourage or sustain humane learning in the fullest sense of the term." —Commission on MIT Education.

As the faculty begins its evaluation of the Independent Activities Period, there is one important point about the January period which it is imperative that they consider: IAP provides an excellent and irreplaceable chance to "encourage or sustain humane learning" at MIT. It is in this area that there were the fewest organized activities, yet it is probably in this area that students reaped the greatest

gains from IAP. During December *The Tech* printed a column describing the problems undergraduates see with MIT's educational policies. Since then, the editor has talked with students, faculty, and administrators about possibilities for improvement. For his analysis of the problems and suggestions for reform, read "Education at MIT" in Friday's *The Tech*.

gains from IAP.

"Humane learning," the Commission seems to be saying, involves more than an academic discipline or even a broad group of disciplines. It must mean that students are learning about themselves and others through experience — by living with people.

An informal, and admittedly incomplete survey of MIT living groups showed that no living group planned any special organized activities during IAP. (In fact, there seemed to be fewer social functions than during a term, the cause probably being the absence of many living group members.) However, almost every living group contacted reported that there was an increase in intra-group activities. Questioning revealed that many students, freed from the usual burdens of MIT's academic discipline, were able to spend more time with the people they lived with. Further, while there was not widespread praise for its worth, no one felt that this increased interaction was undesirable.

While this does not prove that this year's IAP was a period of intensified personal interactions, it shows that it might have been, and suggests that next year, with more careful planning, the January period might provide students with a real opportunity for "humanistic learning."

The most significant aspect of the period is that students were freed from the pressures of academic work, which at MIT can often reach the point of straining both the intellectual and emotional capacities of its students. Instead of being forced to consider (subconsciously, at least) spending time with friends as a waste of time, students were left with time to use for just that purpose.

In the future, if MIT is to offer any real chances for its students to learn to live with people and themselves, this January period must not be neglected, much less discontinued. It is valuable because it provides a period for self-reflection, an important process for students who are really just beginning to develop their own self-awareness and self-understanding.

At present, there is no comparable opportunity available to the MIT student. To stop, in the middle of a term, to straighten out one's mind can prove fatal academically, and there are very few students who can afford the financial cost involved. In a time when the number of students withdrawing for personal, non-academic reasons seems to be increasing, there can be no doubt that students are more and more inclined to take time off to look into themselves.

Ready assistance

Next year, however, IAP literature should place more emphasis on the importance of living group activities. It does not seem entirely clear to what extent planning will aid in fostering more "group interactions," since spontaneity is an important factor. Assistance should be readily available, though, for those who wish to initiate some sort of activity. Group activities during IAP should be encouraged, and students made aware of the possible forms they might take — encounter groups, informal parties, outings.

Considering the possible benefits to the MIT student community to be accrued from the improvement of intra-group relations and students' own self-perceptions, IAP should be continued.

Letters to The Tech

Thursday

To the editor:

I am writing concerning the article in your last issue entitled "Thursday gets time to stall foreclosure." I do not think the article gave a fair representation either of what occurred at the Finboard meeting last Wednesday or the problems *Thursday* currently faces.

Item 1: *Thursday* is an MIT campus newspaper; a very *funct* campus newspaper. We are not defunct; we are not dead and we are not dying. We are a going concern, and the only question that should currently face the MIT community is what direction we'll take, not whether we'll be around long enough to take any direction at all. *Thursday*, at least, is a newspaper that can change.

Item 2: *Thursday* has an editor — yes, Mr. Giguere, we have an editor: his name is Daniel Dern. He was present (and vocal) at the Finboard meeting you wrote about; he is one very definite reason why *Thursday* is still in existence; still printing, and you might have had the courtesy — no; it is something deeper, more important than courtesy: it is journalistic integrity — to report that Editor Dern was at the meeting, and did speak for *Thursday*. Larry Eisenberg was also at the meeting, and was a very important voice for our paper, but Dern, as editor, and having responsibility for all facets of production, deserved honest reporting that would indicate his presence and position.

Item 3: The paragraph about *Thursday* becoming more of a literary medium was incorrectly attributed to Eisenberg; it was Dern's description of a direction *Thursday* might take, and this should have been indicated. Is Dern so inconspicuous, or Eisen-

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Tuesday, February 23, 1971



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berg so commanding, that observers completely forgot the former and remembered only the latter? Was there some reason for systematically eliminating any mention of *Thursday's* editor in the article? Was reporter Giguere even at the meeting he so poorly reported? I think *Thursday*, and Dern, and the MIT community deserve some answers, *Tech*.

Finally, it might be mentioned that *Thursday* has no intention, never had or voiced any intention, of publishing semi-weekly. Only *The Tech* has the facilities to publish semi-weekly; if *Thursday* changes its publication frequency at all, it will be to publish bi-weekly (which means once every two weeks.) Where were you, Mr. Giguere?

These are the only items of journalistic incompetence which I noticed in the article; there are, however, certain statements I would like to make concerning Kavazanjian's memo, which *The Tech* so carefully reproduced.

Where Kavazanjian says *Thursday* published its last issue at a net loss, he completely ignores a misunderstanding about the nature of the Finboard newspaper subsidy which led Dern (and Eisenberg) to believe they had more than covered the cost of printing. Additionally, even with the nature of the subsidy fully understood, *Thursday's* first two issues this semester, taken together, show a net profit.

Where Kavazanjian says *Thursday* has no staff, he neglects the fact that virtually no staff members remain from the *Thursday* of last semester. It is not easy to get people during IAP, and it is very nearly impossible to make a cohesive, functioning newspaper staff out of them in a matter of weeks. I think we did damn well, and

we're doing better. Read our issues and judge for yourself.

Finally, where Kavazanjian says *Thursday* "is not a vehicle for communication, to be driven by anyone who wants to foster his particular views and prejudices," I would be curious to know why he deems it necessary to make such a statement, and why he apparently feels Dern is using *Thursday* to propogate his own 'views and prejudices.' It seems more likely, from my own admittedly partial viewpoint, that Kavazanjian is using Finboard and *The Tech* far more than Dern is using *Thursday*. (For, as all Course 18 hacks know, anything is greater than zero.)

If Kavazanjian feels compelled to liquidate *Thursday*, and to do so on largely inaccurate grounds, to make a personal attack on its editor's character and motives; and if *The Tech* finds it impossible to report news events with even a modicum of journalistic integrity, just a bare minimum of respect for the truth, then perhaps *Thursday* is even more necessary than I thought.

Thursday has an editor, a staff, a growing financial base, and a readership. We do not intend to die, and we do not intend to be liquidated. Or does *The Tech*, Finboard, and Mr. Kavazanjian think *Thursday* is better dead than read?

Ken Skien
Features Editor
Thursday

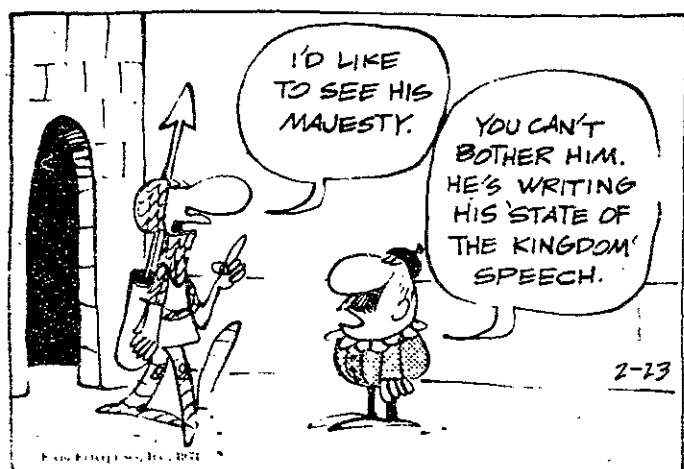
Editor's reply —

1) *Finboard* has decided that continued underwriting of *Thursday* should depend solely on financial considerations. The *Tech's* concentration on Eisenberg's views accurately reflects this emphasis — a newspaper's business manager is rightly its voice in financial matters.

2) Any charges that *The Tech* is out to kill *Thursday* are nonsense. Kavazanjian, a long-standing *Finboard* member, acted independently without consulting *The Tech's* Board of Directors.

3) *The Tech* reporter was not present at the meeting, as the article makes rather clear. The use of "semi-weekly" was the honest (and common) mistake of confusing semi- and bi-. See, for example, the "Weekly Report" in the *Thursday* issue of February 11, where Dern erroneously describes *The Tech* as a "bi-weekly."

THE WIZARD OF ID



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entertainment

February 23, 1971

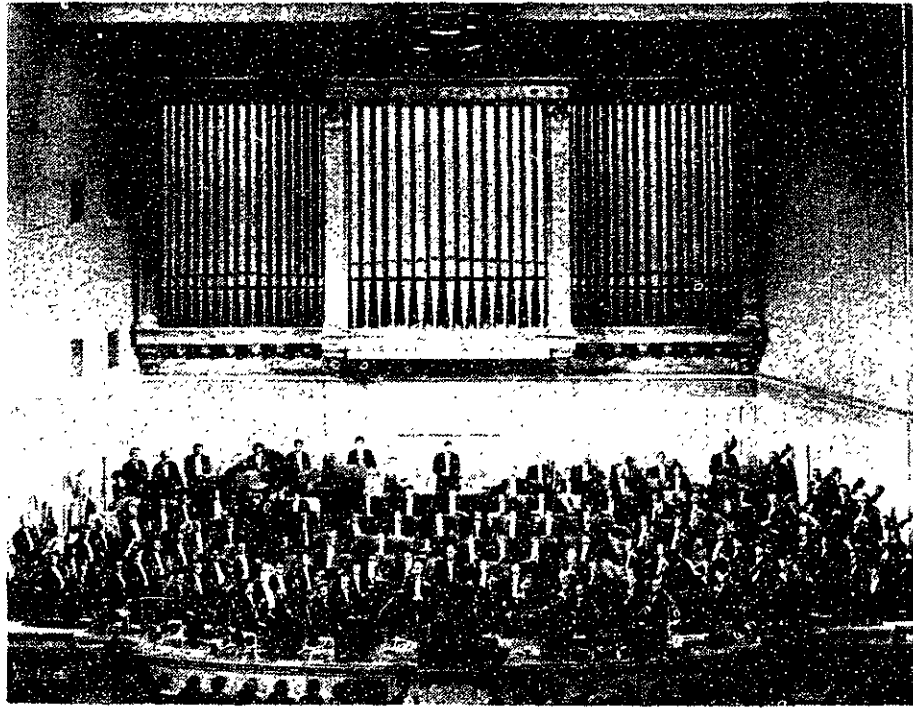
Records
 Books: Word Movies
 Concerts: BSO Chamber Players
 Theatre: And Miss Reardon drinks a little.

The fine art of listening And Miss Reardon

By Rick Eskin

How many of you readers out there limit yourselves to vicarious pleasure when it comes to what Boston has to offer in entertainment? Are your views of the Hub's musical events, for instance, always obscured because the results must first be digested by the eyes, ears, and mind of your favorite *BAD* or *The Tech* reviewer before reaching you? Or possibly you are a consistent reader of *The New York Times* or the *Saturday Review*, forming your opinions solely from perusing those more literary members of the media. In any case, there is a good chance that you often incur self-hate because you figured that tickets to see the Grateful Dead were unobtainable, or that since subscribers hold every seat for BSO concerts, there was no way to see that group play, or simply that it was too much bother to grease back your hair or roll up your blue jeans to go see Sha-na-na; and in each case your best friend not only procured a ticket, but enjoyed himself immensely.

Reading about a performance can surely stimulate thought, but can never provide the pleasure which comes with listening (throughout this erudite discus-



sion, I am assuming that most people do not play musical instruments, and therefore must listen if they want enjoyment). What about hearing recordings as opposed to witnessing live performances? Many times, recordings have much better sound, with fewer extraneous audience noises, and no mistakes by the performer (they've all been rectified). Also, one can always listen to what one wants to hear (if you do not like the amount of modern music the MIT Symphony is playing, stay home and

hear Beethoven). However, if you are looking for a total experience — and who isn't among the now generation? — there is nothing which can compare with a live performance. Besides just feeling the music, you can play out your psychological hang-ups: if you revel in group action, you can feel the general pulse and become part of the audience; if you like a position of power, you can be the supreme judge of the action by listening and watching either the performers on stage (shouldn't that have been a B-flat?) or in the seats (it's fun to play psychiatrist).

Now, I don't want to appear as if I hold the last word on concert-going, but it seems to me that when the number of people present and the number of things happening rises, so does the possibility of a greater experience.

Okay, now that you have been convinced to attend, not just play recordings or read, you will be happy to know that there is a sufficiently large number of (Please turn to page 6)

By John Kavazanjian

In creating a play, a writer can at times be too good. In the case of "And Miss Reardon Drinks a Little," which opened last week at the Wilbur Theatre, the perceptive and sensitive character portrayals are almost obscured by the brilliant humor of the play. The whole meaning of the play is easy to miss not only through the humor but also through the fact that the point of the play does not become clear until the very end.

The focus of the play is on the three Reardon sisters. Catherine, played faultlessly by Estelle Parsons, is the middle sister and like the other two, is a teacher. Ceil, played by Nancy Marchand, is the oldest sister, the only married one, having stolen one of Catherine's boyfriends for her husband. Anna, Julie Harris, is the youngest, having recently suffered a breakdown after a sexual episode with one of her pupils. Anna and Catherine live together, as they have all of their lives, and have gone through caring for their dying mother together, Ceil having escaped by marriage. Julie Harris and Estelle Parsons keep a rapport which is so close that it makes them incredibly believable as sisters, from Anna's vegetarianism and hatred of furs and leather (taken from live anti-

mals) to Catherine's sneaking of chopmeat, that she keeps in a Fanny Farmer box.

Catherine's comic sarcasm is the sarcasm of a trapped woman, caught between having to teach school and care for Anna, bitterly resigning herself to being an old maid. Ceil appears only out of selfishness. As an up-and-coming Assistant Superintendent, she is not concerned with Anna's condition as much as with covering it up. She tries to hint around it, but Catherine sharply cuts through her, "You know Ceil," she says, "Sometimes I think that all of those graduate education courses have given you euphemism of the brain."

Fine performances also come out of Rae Allen, as an officious, impulsive, fellow teacher, and Bill Macy, as her husband. But (Please turn to page 6)

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Discs au Tech

Poco

Deliverin' — Poco (Epic)

Since the breakup of the Buffalo Springfield, the members of that group have been fantastically successful. Poco, the spinoff formed by Richie Furay and Jim Messina, has continued to produce a lot of the happy sounds which made the Springfield legendary, but what is often overlooked is the fact that their group is also extreme-

ly competent musically. Poco gets it all together on this live demonstration of their capabilities.

Messina and Furay included steel guitarist Rusty Young in their band, and his work on this album is outstanding. *Deliverin'* is a live recording of Poco's concert at the Music Hall last spring, and much of the exuberance of the concert hall is captured on the album, which is (Please turn to page 6)

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Word movies

By Lee Giguere
Word Movies, by John Hartford. (Doubleday, 143 pages, \$2.95).
 Written in the tradition of the drifter, John Hartford's *Word Movies* is largely a collection of his song lyrics, and the lyrics, while good, in many cases are better sung.

The poems are all printed without punctuation. Though lyrics don't need punctuation when they're sung — the music more than amply provides the listener with "punctuation." In print, the lack of punctuation tends to confuse the reader, making it very difficult in some of the poems to follow Hartford's phrasing. In particular, those poems which I had already heard seemed very much easier to read, understand and enjoy. In the others, the flow of words had to be suspended so that I could consider how to arrange them in my mind.

Now clearly, you can say that this is a trivial complaint, arguing that the reader should not expect to get something for nothing. So I agree that Hartford has the right to expect me to do some work when I read his poems, however I think that his lyrics do seem to lose something in transcription. I miss his deep, sad voice when I read these lyrics, and can't avoid trying to "recreate" his singing in my mind. Perhaps song lyrics are

best left to singers, and not to printers.

Included in the book are things like "Gentle On My Mind" (recorded profitably by Glen Campbell) which brought Hartford his first large measure of success. Here he writes of his love for a woman that he is free of, tying his love up intricately with his freedom from her. This catches a recurring theme in many of his lyrics — the myth of the drifter, the wistful wanderer.

Hartford writes with a country flavor — his music is usually classified "Country and Western" — which appears most strongly in his choice of images. His emphasis of the myth of the drifter carries with it a tone of dissent from the values of "middle-America." Hartford's words are hung with a feeling of deep unhappiness over things like "the dirty old air that hangs over our town."

Hartford can also write in a vein that is almost childish, for example, "The Good Old Electric Washing Machine, Circa 1943" in which he longs for the return of his old machine because the "new one just looks more like a television set."

In *Word Movies*, Hartford conveys a bittersweet view of life and love, always sad yet always wanting to still be alive and continue, "a gentle breeze of truth" he feels about life.

...and more groovy discs

(Continued from page 5)

notable considering the poor quality of most live albums. The country-ish style used by Poco is highly relaxing and definitely worth hearing; for those of you already into their sound, it's more good Poco, and for the rest, well, it's something you ought to try.

—Gayle Johnson

Fanny

FANNY — (Reprise)

A competent but unexciting debut album for this new all-girl group. It falls into the easy-listening category — pleasant, but nothing particularly stands out. Melodies and arrangements by sisters June and Jean Millington are generally uninspired. The vocals may be a little too smooth for rock. All four girls sing; the harmony is excellent but the effect is that of Lesley Gore, four-tracked. Overall "sound" puts me in mind of the early Beatles. Most unfortunate cutes on the album is the Clapton-Harrison song "Badge," inviting the inevitable comparison to the cut on the Cream "Goodbye" album. June Millington comes off second best, managing about one note where Clapton played three.

—Stanton

Woodschick — (Capitol)

A rather novel, possibly libelous, album from the Credibility Gap, dealing with a lot of sacred cows, like, for example, the Edward Kennedy incident on the Chappaquiddick; at times,

there are some rather obvious insinuations, but on the whole, it is a subtle and extremely humorous album. The recording does deal with some rather touchy subjects, and as such we wholeheartedly approve.

Miss Reardon

(Continued from page 5)

even their sympathetic comic second act scene obscures the supposed point of the play. As seen through Anna, the whole world is crazy. Through Anna's warped, destroyed mind, Paul Zindel, the playwright, shows a world overconcerned with material need. He shows shortsighted people with blinders, looking straight ahead, and only aside when they feel themselves diverted. Her hatred of anything that used to be part of a live animal is a sign of all the natural things that man has destroyed, not realizing that this is his only world and he should make the best of it. There is no room for Catherine's bitterness, Ceil's self love, or any of the petty rivalries that mar life. As Anna says in the last line, "Catherine, what world are you waiting for?"

The acting is uniformly superb. Miss Parsons is obviously overworked, and Zindel goes to her once too often for a sarcastically funny line, but she milks each line for what it is worth and the performance is worth a lot. Julie Harris makes the part of Anna her part, and plays it with obvious understanding of the character. Miss Harris and Miss Parsons are one and the same as sisters. As Ceil says, "You're just two birds of a feather."

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BSO and chamber music

(Continued from page 5)

events so that one can be relatively discriminating in the choice of what to see. If I may dwell on classical music, we have at MIT such things as the Thursday Noon-hour concerts, the Sunday chamber music series, frequent performances by members of our own music faculty,

LSC

FRIDAY

Two Mules For Sister Sara. One of Clint Eastwood's better flicks, and in his fine tradition of the *Fistful of Dollars* series. Eastwood and co-star Shirley MacLaine combine in a shoot-em-up western. The filming was done in Mexico, and the excellent camerawork does a tremendous job of generating a feeling for the country. Do it.

SATURDAY

What Do You Say to a Naked Lady? Alan Funt's delightful comedy about a rather intriguing situation is, unfortunately, X-rated, so most of you MIT Tools won't be allowed in, unless somehow you can manage to look older than your age. This is one of the most humorous movies around, so if you're over 18, go and expand your mind. ID's will not be checked.

and the MIT Symphony and Glee Club.

Then, of course, Boston has even more. I would like to describe a concert given February 14 at Sanders Theatre, Harvard, by the Boston Symphony Chamber Players. This group of principal members of the BSO played works by Mozart (*Piano quartet in E flat*), Riegger (*Concerto for piano and woodwinds*), Ravel (*Introduction and allegro for harp, with string quartet, flute and clarinet*) and Stravinsky (*L'histoire du soldat*).

Without approaching the pedantic style of some conventional music reviewers (who seem to imply that they know every piece by heart, but who probably just read the program notes very well) I can describe the Mozart and Ravel as pieces from which the players derived as much fun as the audience, the first because of its light-heartedness and the latter because of its flowing qualities. The Riegger, on the other hand, was more fun for the audience, due to the fact

that the instrumentalists had to concentrate on the difficult rhythms. I can imagine the composer's thoughts to be "Let's watch these guys sweat a bit." In any event, the first half of the concert consisted of well-played Mozart and a passable, yet enjoyable Riegger. In both pieces the audience showed its appreciation for the skill of the pianist, Gilbert Kalish, who did an excellent job, especially in leading the more modern work.

After the intermission, the audience received the afternoon's greatest delight in the music for harp, an instrument usually relegated to orchestral accompaniment. Ann Hobson's lovely performance was soothing, and provided a good contrast with the excitement of the Stravinsky. This last work on the program was the best of the four, if not for the perfection of its performance, then for its ability to tell the story of a soldier, a story which can be as beautiful as it is horrifying; and yet it is told without one word!

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Students face rising costs

(Continued from page 1)

ty Grant, the only other available scholarship source, is aimed at the extremely poor. "And we don't have as large a share of the very, very poor as other universities. Unless there is a change of philosophy at the Federal level, scholarship grants don't appear to be the answer. Tax reductions or direct grants to students of all incomes and abilities would be ideal. These aren't proposals on the horizon, however," continued Mr. Frailey.

Furthermore, the student will receive from \$1,400-\$1,500 in loan and job awards before receiving scholarship funds. This year the figure was \$1,200.

Loans appear, then, to be the only possible source of greater funding. And a major share of the study and analysis done on the student financial aid problem has been concerned with loans and repayment.

Private capital has supported the Technology Loan Fund. This capital, when first allocated, earned its own investment income. Loans from this source charge a 1.5% interest.

In 1964, however, 14 years after its initiation, the National Defense Student Loan Fund claimed it was able to meet the needs of every student. Money from this source was loaned to MIT at no interest and reloaned to students at 3.5% interest payable after graduation. This year, 80% of the loans distributed were from the National Defense Loan Fund. No more Technology Loan funds remain in the bank. Technology Loans now operate on a revolving basis, dependent upon current repayment. This places the Technology Loan Fund in a static condition. In effect, the capitol for loan is down, because of this slow repayment procedure.

In addition, President Nixon vetoed the National Defense Loan Fund at one point during his administration's press for budgetary decreases. "We're not sure a new administration would look any more favorably on this funding. It is truly costly, and Congress as yet has not placed education at the top of its priorities," commented Mr. Leonard Gallagher, Associate Director of Student Financial Aid.

At the present time, the guaranteed loan or "Federally insured loan" appears to be the major source of funds to meet the projected gap in needs and funds this fall. MIT will ask its students to use this source. This fund allows any student to borrow up to \$1,000 a year at 7% interest yearly. If the student's family income is less than \$15,000 yearly, the federal government will pay the interest for the period that the student is in school. The statutory limit of 7% had made this funding unattractive for banks, however, and some students are being turned away by banks for this reason. MIT also borrows money

from the federal government at 8% interest and reloans it to students at the same interest. This type of money has met the graduate student needs for the past two years. During this time, traditional loans and gifts have largely met the undergraduate needs.

"Next year, however, we project a gap in the undergraduate aid. The only solution is to ask students to meet the gap with 7% loans. Financial aid for students, though important, is only one of many priorities that MIT must deal with, unfortunately," explained Mr. Gallagher.

At this time, when MIT and many other schools face the problem of limited funds to support student financial aid, the Ford Foundation has just refused to support Yale's Contingent Repayment Loan Plan. This plan, if enacted, would allow a student to borrow what he wants, not necessarily what he needs, from an "educational opportunity bank," (i.e., bank or school). The student would contract at the time the money is borrowed to pay a certain percentage of his salary for 30 or 35 years of his wage-earning career. One possible variation of this program would postpone repayment until 5 years after graduation, in the expectation that this would enable the student to establish his career and family.

There are several objections to this program. Yale proposed the plan to the Ford Foundation hoping that Yale and Ford could act as co-guarantors of these loans and thereby convince banks, insurance companies, and other capital sources to invest in this loan fund. The primary objection of the funders is that it requires putting money in a "deep freeze" for 30 to 35 years.

Students asked at Yale about the program were generally in favor of the Contingent Repayment Loan. Although some students would eventually pay two or three times the amount they originally borrowed, and others would pay only a fraction, this

plan puts the burden of repayment off until the prime earning years. Though the percentage of salary to be paid remains the same, the dollar amount is considerably less than that required by the traditional loan funds. Current sources also require repayment during the first ten years of a student's career, those which are generally, the most difficult financially.

The Contingent Repayment Loan also releases parents from the burden of a college education. At the same time, however, it commits the income of a student's wife to repayment.

Since Ford's rejection of the program, Yale is attempting to finance the program on its own borrowing power. The loan fund will act as a supplement to traditional funds, however.

MIT, in the meantime, is continuing to work with 12 other colleges to ask Ford for a similar loan fund at the graduate level. Presently, however, MIT's Financial Aid Office is concentrating on using the institute's borrowing power to increase its Technology Loan Fund. At this time, MIT has one other alternative — to introduce a Co-operative Work Study Program, currently in limited use in the Electrical Engineering Department. The Co-op program enables students to work full time for a term alternating with terms at college for all 12 months of 5 years, incorporation of this program is left up to the individual department at MIT and is currently viewed more in terms of educational opportunity than of a financial alternative.

MIT's graduate school is now considering its own alternative to the problem. Different tuitions for the schools of Science and the School of Management are now under consideration. Action on the proposal is not expected in the very near future, however.

In the interim, Dean Irwin Sizer of the graduate school has noted a 62% decrease in federal fellowships since 1967. Industrial fellowships are down 10%.

New Institute office pools media services

(Continued from page 1)

useful background material for all three undergraduate papers.

News office

The newly created news office will serve the pressing need to deal with the outside media. As MIT's role in both government and civilian research has swelled during the past decade, so has the job of disseminating information to and co-ordinating coverage by the local and national press. As Byers, himself a veteran of service on both

metropolitan dailies and the wire services, noted, the recent instrumental MIT role in correcting the malfunction that threatened the moon landing cost the PR director two complete days. Newspapers across the country, magazines, Walter Cronkite — all wanted interviews and information on the Draper Labs engineers. As news office director, Byers will be free to deal with similar future demands while other administrators handle such internal matters as the annual course catalogue and the weekly information publication.

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The Tech

Sports

Skiers take sixth in division II title meet

By Lew Jester

The Division II Eastern Intercollegiate Skiing Association (EISA) qualifying ski meet, effectively the Division II championships, was held at Norwich Academy, Northfield, Vermont, on February 19-21. In a field of eleven schools, Coach William Morrison's skiers placed a close sixth, characterizing a fair but up-and-down season.

Ski meets are generally set up such that each team may enter five men per event, but only ten different skiers for all four events. The top three finishers count for each team in each event, and the teams are awarded points accordingly.

In the downhill, John Schultz '71 took an excellent third place out of fifty-five racers, qualifying for the Division I championship next week (the top five finishers in each event qualify). Freshman John Nabelek was outstanding as he placed seventh, followed by Steve Nadler '73 in twelfth. Captain Gil Flanagan '71 and Miles Wagner '71 also had good runs but finished

further back. The team was fourth overall.

MIT was fifth in the 15 kilometer cross-country race, with freshman Scott Weigle placing ninth in a field of forty-nine. Returning from a shoulder injury, Lew Jester '72 placed tenth, followed by another freshman standout Bob Collier at twenty-second. Assistant coach Helge Bjaaland has done a fine job of developing the Nordic team, which includes two members with no previous experience.

The alpine team finished tied for third in a well-raced slalom. Nadler was sixth, Schultz seventh, and Flanagan nineteenth, followed by Nabelek and Wagner in a field of fifty-six.

The jumping team could manage only a distant eighth due to several injuries during the season. Collier was first for the team at nineteenth, Jester at twenty-first, and "jumper" Schultz finished thirty-first out of forty-five with a valiant jump on the forty-meter hill.

Good sparks pistol victory

A week after suffering its first defeat of the season, the MIT varsity pistol team, with a superb performance by John Good '72, recorded its most impressive victory of the season by defeating West Point for the first time ever in shoulder-to-shoulder competition Saturday morning at MIT's range. The final score was 3347-3328.

Last Saturday, February 13, the engineers were soundly defeated by a strong Air Force team, but that loss was soon forgotten in the tension of the Army clash.

Riflers score close win over CGA team

By Larry Krussel

Last Saturday the varsity rifle team capped a highly successful weekend by squeezing out a one point victory over an extremely tough Coast Guard team. The 1347-1346 victory avenged the team's only loss of the season and brought their record to 10-1.

The weekend began with a 1357-1218 victory over Wentworth on Friday night. In this match Eric Kraemer '71 led all shooters with a 279 out of 300. Karl Lamson '71 and Bill Swedish '71 followed at 278 and 271, with Howard Klein '72 and Tom Milbury '73 completing the team score at 268 and 261 respectively.

Early the next morning the team set out for New London, Connecticut, and a three-way match against the Coast Guard Academy and the University of Rhode Island. The Rhode Islanders presented no problems, and despite several fine individual scores could rate only a 1216 team total.

The real challenge came from the Coast Guard team. The

Army tired all five of their best shooters on the first relay, the four best totaling 3328, with 58 shots falling in the X-ring, the smallest ring on the target. (The number of shots falling inside this center ring is often used in breaking ties.) Also on the first relay, All-American Dan Flint '71 turned in his consistently fine performance at 837-16X. Wayne Criswell '71, firing his last match before graduation and despite a heavily stitched and blackened shooting eye (from a fall at Air Force last week) also put out a steady effort to come

teams lined up for the match realizing that New England dominance and a lot of pride were at stake. They fired the usual thirty shot, fifty-one minute course, and everyone cursed himself wondering why he had not done better. The scorers took over and checked and rechecked each shot, trying to squeeze out every possible point in what they knew was a close match. Fortunately the Tech riflemen scored one more point, and even though both teams shot below their capabilities, MIT came home with a narrow but happy victory.

Bill Swedish led the team against Coast Guard and Rhode Island with a 276. Eric Kraemer fired a 274, while Frank Leathers '72 and Karl Lamson each turned in a 267. Tom Milbury again completed the team at 263.

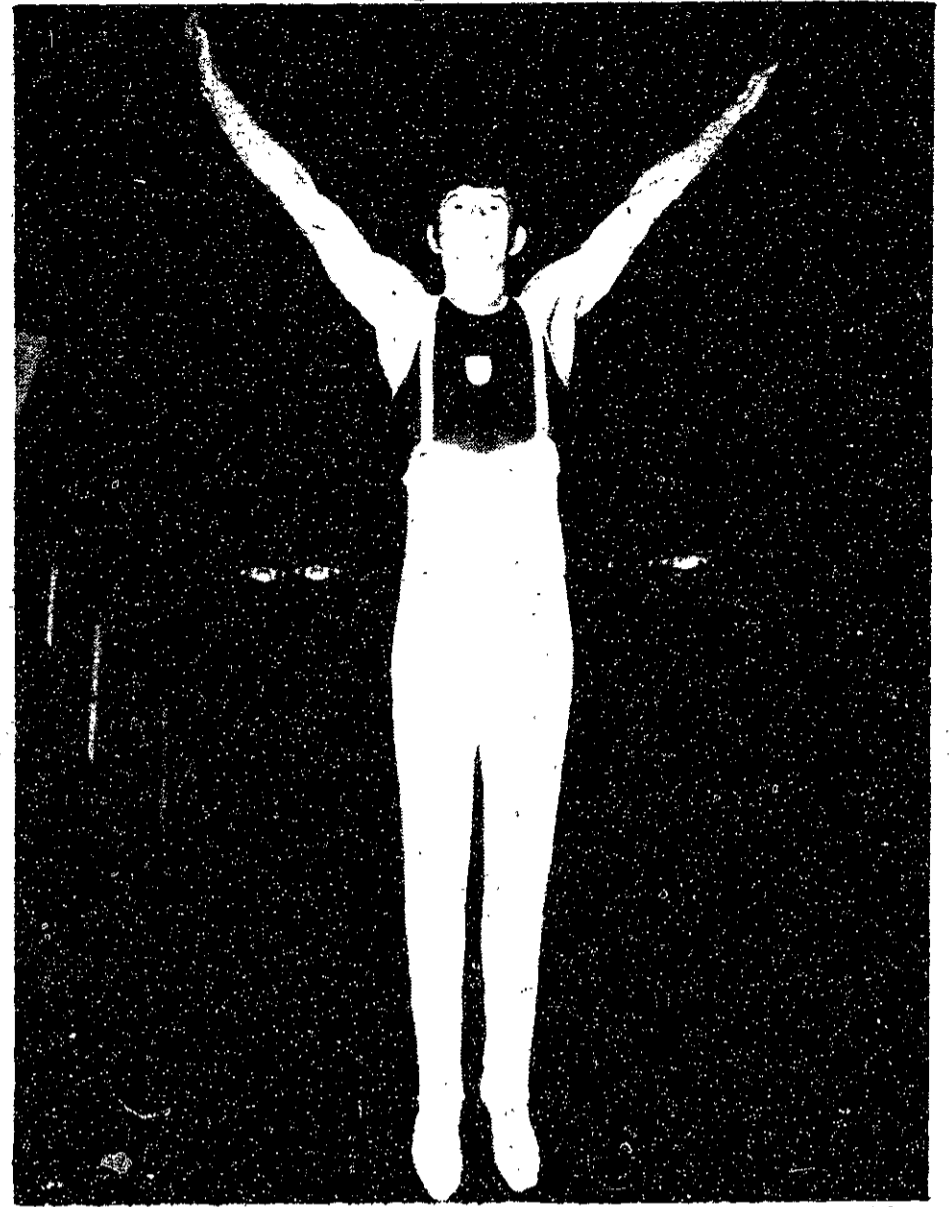
In the previous weekend's action, MIT defeated Northeastern, 1359-1250. The scores in this match were Kraemer, 277; Milbury, 274; Lamson, 273; Swedish, 272; and Larry Krussel, 263.

Gym drops last dual meet

Closing off their dual meet season with a disappointing loss on Saturday, the MIT gymnasts suffered a 115.95 to 104.65 defeat at the hands of Dartmouth. After hazarding a thick blizzard on the way up, the techmen fought a losing battle throughout the meet.

Standout performances were displayed by Paul Bayer '73, taking his third consecutive first place on the side-horse, and captain Ken Gerber '71, who took his eighth straight first place on the parallel bars. Gerber, crippled with torn cartilage in his knee, has been forced to give up every event except the bars and rings. Because of the difficulty in coming down from the rings, Ken was also forced to eliminate his dismount. Although he has qualified for the NCAA championships over six times, it seems doubtful that he will be able to go before his knee undergoes an operation. His only hope is that the weakened joint will stay together at least until the New England Championships on March 6.

But the cloak of bad luck was not carried by Gerber alone. Raysh Daub '71, the top vaulter for MIT who joined Dave Beck '72, Bayer, and Gerber in qualifying for the NCAA's, suffered a painful elbow dislocation in practice last week to bring his competitive career to a close. Earlier this year, Donn Wahl '72, the top high bar man, misse a extremely dangerous double back somersault off the high bar to keep him out for the season.



Raysh Daub '71 vaults. Until the last meet Raysh was the third highest scorer for the gymnastics team, but he is now recovering from an elbow dislocation. Jetphoto

Without any experience, freshman Neil Davies, who worked hard enough to earn himself a spot on the varsity and also became the team's sixth highest scorer, was kept out at midseason for almost two months as a result of an automobile accident. Taken in total, the gymnasts have been fighting against all odds, and in all fairness it must be said that despite these problems, Coach Lilly had led his men to a remarkable season and a strong showing against Dartmouth.

In addition to the first places taken by Bayer and Gerber,

other gymnasts worthy of mention include Dave Beck and Bob Barrett '74 who took second and fourth in floor exercise, Jarvis Middleton who took fourth on the rings, and Neil Davies who took third in vaulting and fifth on the high bar. Freshman all-around man Larry Bell took fifth on the side-horse, fifth in vaulting, and fourth on the parallel bars.

With several gymnasts capable of winning or placing in at least five events, the team is looking forward to the New England Championships, to be held at Boston State in two weeks.

DU wins 3rd straight IM basketball crown

By Randy Young

For the third consecutive year, the Delta Upsilon basketball team has won the intramural "super-league" championship, this year by defeating the Sigma Alpha Mu squad 91-65 on Thursday night in Rockwell cage. After downing the Black Student Union team on Sunday, February 14, by a score of 93-65, the

DU squad advanced to the finals to meet the SAMmies, who had beaten the Delta Tau Delta contingent.

Having dominated the league all year, Roy Setterlund and Steve Gass, both '72, continued the pace by scoring 27 and 26 respectively in the title game. Denny Ducsik followed with 14 points, along with Doug "Kat" Breeden, Ben "Jet" Wilson, and Rick Eskin, who contributed 12, 8 and 4 points.

Varsity's win clinches winning b-ball season

The MIT basketball team streaked to its third and fourth straight wins last week, with an 81-71 victory over Tufts and an 83-73 win over Middlebury College. The team had been picked to lose all four games by the Dunkle college basketball rating service as it showed a continuing ability to baffle the oddsmakers. The victories also ensured MIT's first .500-plus season since 1967-68. The record now stands at 11-9 with one remaining game, at Colby Friday night.

The Tufts game saw MIT's three front court men come into their own, as Bill Godfrey '71, Harold Brown '72, and Jerry Hudson '73 scored 21, 20 and 19 points. "Gus" Hudson also pulled down 18 big rebounds. MIT jumped out to an early lead of 10 points, led 33-26 at half-time, and managed to keep the

lead between 5 and 15 points for the duration of the second half without serious trouble.

Middlebury, a much stronger team than Tufts, did not succumb so easily. MIT led most of the first half and led 41-32 at halftime. Middlebury quickly cut that lead and edged ahead 53-52 at one point in the game. The MIT offense stabilized itself again and began to rebuild its former lead, mostly with free throws. Brown led all scorers with 30 points, while Hudson and Godfrey led the way with defensive and offensive rebounds.

Gerry Loe '71 had 7 assists in each game. Bruce Wheeler '71 had a total of 22 points in the two games and, with Loe, did a sterling job of containing Tufts' and Middlebury's hot-shooting guards.

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