



The "weather" is clear in the Building 7 Lobby.

Photo by Roger Goldstein

Fac reject CAP proposal to revise spring calendar

By Mike McNamee

A proposal by the Committee on Academic Performance to change the calendar for the spring term (see *The Tech*, 11/13) was overwhelmingly defeated at a sparsely-attended faculty meeting last Wednesday.

The proposal presented by CAP chairman Professor Arthur C. Smith, Course VI, which would have shortened two

four-day holidays to three-day vacations, stirred lively debate for almost an hour before being rejected almost unanimously by the 70-some faculty members present.

The CAP's proposal would have changed Washington's Birthday and Patriot's Day, the two four-day vacations in the spring term, to three-day vacations, and would cut one

class day out of the term, moving the end of the term up to Tuesday, May 14. Finals Week would start on May 15.

This plan was offered to the faculty instead of the earlier plan proposed by the CAP, which would have ended IAP earlier and eliminated a vacation on January 31-February 1. This plan, which would have resulted in the same end-of-term calendar as the final plan, was abandoned when, according to Smith, "we got overwhelmingly adverse feedback to the proposal."

The purpose of the proposal, according to Smith, is to eliminate problems which have occurred in the past with the consideration of candidates for degrees at the end of the spring term. Addressing the faculty, Smith explained that the current calendar allows only one day for the departments and faculty to consider the granting of degrees before Commencement, which has caused some difficulties in the past. Smith described the system as "designed to fail."

Smith cited the experience of last year's Commencement, when two degree candidates were not placed on the degree lists because of errors made in the process of consideration. One of these candidates, he added, received his degree during Commencement due to the intervention of a faculty member; the other did not receive his degree until some time later.

Reaction from students to articles in *The Tech* and *Tech Talk* describing the proposal to change IAP made the CAP decide, according to Smith, to offer the proposal changing the holidays instead. "We had no idea how busy those last few days of IAP are," Smith said.

One objection to both proposals, Smith noted, was that there would be no time between the end of classes without finals and the final period. "What we have done," Smith said, "is interchange two days of classes with a weekend. Many students feel that this is a substantial disadvantage, as classes without finals may require a term paper due on Tuesday, and the student may have a final on Wednesday."

Many faculty members suggested that the date of Commencement be changed in the future to prevent this problem

(Please turn to page 2)

Fac briefed at meeting on Energy... and Arts

By Mike McNamee

Measures taken so far by the MIT community have cut use of heating oil at the Institute by about 25% since early November, according to Vice President for Operations Philip A. Stoddard.

Addressing the faculty meeting last Wednesday, Stoddard said that the MIT energy shortage, brought about by a 30% cut in oil supplies available from the Institute's suppliers, has been partially alleviated by the recent warm weather and the availability of natural gas to burn in place of oil.

Stoddard stated, "the basic policy being implemented by Physical Plant is to do everything possible to keep things as normal as we can." He said that measures taken so far included shutting down ventilation systems at night, lowering thermostats, and reducing the temperature of hot water by about 20 degrees.

"No one is suffering yet," Stoddard said, "but the weather isn't very cold. We haven't been tested yet."

"The big question," Stoddard continued, "is whether or not we can make 30% cuts throughout the winter." He added, "the next week or ten days will answer that question."

The Physical Plant Department is preparing contingency plans in the eventuality that the Institute will not be able to cut its energy use sufficiently, according to Stoddard. "These plans would include shutting down buildings, changing work schedules, going to a four-day week, and other measures," he said.

President Jerome Wiesner, presiding at the meeting, told the 70-some faculty members present, "we must be very flexible, and prepare for anything. ... We can't panic. The Institute's energy consumption must be fine-tuned so as to get the most use from the available supplies."

Professor Louis Smullin, head of the Department of Electrical Engineering, said that the current situation presented "not only an opportunity to conserve energy, but an opportunity to attack this problem as a technical problem." He suggested that the Institute seek funds from the government to mount a major test program "to develop MIT as an example of how to operate normally with less energy."

Smullin pointed out, "with the engineering faculty here, we could make a systematic attack on a problem that is going to be with this country for some time."

By Paul Schindler

Professor Roy Lamson, special assistant to the President for the Arts, told the faculty last Wednesday that the arts are "not just the frosting on the cake of science and technology."

Lamson made a philosophic statement in support of artistic and humanistic endeavor at MIT as part of a wide-ranging review of the work done by the MIT Council for the Arts, since it was first announced in New York by President Jerome Wiesner in 1971.

Lamson contended that the programs of the Council have been "sensible, not idealistic." He cited the efforts already funded, which totaled \$98,590 - \$81,000 for the MIT Symphony Orchestra tour of last year, by far the largest item; it was praised by several critics for the good effect it had on MIT's image; - \$5,000 for a study of arts facilities around the country, undertaken by three undergraduates and a graduate student; - \$4,250 for instructors for the Student Art Association, MIT Dance Workshop, and a dance instructor; - miscellaneous amounts for exhibits, performances, visiting poets, and a film, as well as a contribution to *Free Parking*, which Lamson referred to as "student literary magazine."

The Council, which is to serve in part as an artificial alumni body for MIT artistic endeavors, has been organized into committees and given a full time staff for support. The committees will handle Acquisitions, Education, Financial Development, and Program and Information duties.

The Council, Lamson said, "hopes to be of help to MIT in matters of increasing concern," and to "open up new channels of support from non-traditional sources."

White: energy crisis is not result of greed

(Second in a series)

(Ford Professor of Engineering David C. White, director of MIT's Energy Lab was recently interviewed by Paul Schindler of *The Tech*. His discussion of the sources of the energy crisis, and related topics, comprise the second article in a series by *The Tech* on the energy crisis. Last Tuesday's article dealt with a wide range of topics; in this article, White discusses the ongoing research at MIT, and the causes of the crisis; the first question was whether the current situation is the result of oil company greed. - Editor).

A: That's a stupid position to take. Now, you're a businessman. You're responsible to the stockholders. It's your responsibility to get the highest returns for that company so you can pay more dividends and the stock goes up in value. If you don't do that you'll get fired. If we have laws that make it more economic to locate a refinery abroad and to import the refined product, than to locate domestic-

(Please turn to page 6)

Colleges abolishing ROTC may lose tuition funds

By Barb Moore

Many New England universities could lose millions of dollars in tuition now being paid through the ROTC programs, under a proposed policy sponsored by Rep. F. Edward Hebert (D-La.), Chairman of the House Armed Services Committee.

The policy would affect universities which have abolished their ROTC programs, all of which are located in the Northeast. The only universities in the greater Boston area which still retain ROTC programs, and would be therefore unaffected by Hebert's proposal, are MIT and Northeastern University.

Hebert has pressed for such measures since the actions which led to the disappearance of many ROTC units in the 1960's. This latest move stipulates that no civilian or military students from the Department of Defense should attend schools that have dropped ROTC. He also does not encourage the re-establishment of ROTC on these campuses, a proposition being considered at many colleges.

When contacted about MIT's decision in 1969-70 to retain its ROTC program, Louis Menand, Assistant to the Provost, stated that they were "perfectly aware

of it [Hebert's proposal] at MIT" when making this decision. "However, Hebert's threat came after MIT decided to keep ROTC," and had no influence on the decision.

Harvard, Boston University, Boston College, Brown, Yale, Dartmouth, and Tufts would all be affected by Hebert's measure. However, due to the sharp decrease in numbers of students attending these schools under DoD programs, the loss of this tuition money would be negligible in most cases.

The major effect this would have upon MIT students would be the added problems faced by an undergraduate in choosing a graduate school. An undergraduate in ROTC at MIT could not attend Harvard Business School as a commissioned officer, since Harvard no longer has ROTC on its campus.

A decision by any of these schools to reapply for ROTC would remove it from Hebert's "black list," and some universities are considering the move. If student interest indicates such a move, then ROTC may reappear. However, most university presidents deny that Hebert will force them to act.

New service to aid research in libraries

By Greg Saltzman

MIT has instituted an experimental computer-assisted library search program which is supposed to ease use of current research information available in the Institute libraries.

The new system provides up-to-date bibliographical information in chemistry, education, management, and biomedical science. Eventually, according to the system's developers the whole spectrum of research in science, engineering, and social science will be covered by the system.

Natalie N. Nicholson, director of the MIT Libraries told *The Tech*, "I think that the new service will be of great value in a research oriented institution

such as MIT. The data bases are updated frequently, so they cover the recent journal literature that is of most interest to researchers. "She noted, for example, the the chemistry file, is updated weekly.

Two different services are available: retrospective searching of bibliographical data bases, and a "current awareness" service that alerts subscribers to new publications in their fields. Both are offered on a free-for-service basis.

After an initial introductory three year period, the fees charged will have to bear the full operating costs of the system, Nicholson stated. She added that MIT is experimenting to

(Please turn to page 3)

NOTES

* Checkers . . . Screening and discussion of Richard Nixon's greatest live television performance. For present and former students of 17.24. Thursday, November 29, 1973 in E52-143, at 7pm. Class discussion follows with lecturer Edwin Diamond and invited guests from Washington.

* Dr. Paul Rosencrantz will discuss Dual Career Marriages, today, 4-6pm, Room 3-310.

* After this Friday, November 30, an undergraduate must petition the Committee on Academic Performance if he or she desires to cancel registration in a subject, according to the Registrar's office.

* The Process of Social Change, a Political Science Forum, will be presented on Thursday, November 29, in Student Center Room 400 at 7:30pm. Professor Michael Lipsky of Course XVII will preside over panel consisting of Eugene Skolnikoff, head of the Political Science department, and several participants in social change - a lawyer, a planner, and an engineer. The event is open to the community.

* Today, from 12:15 to 2pm, John Bresnan, former Ford Foundation Representative in Indonesia and new Head of the Asia and Pacific Division of the Foundation, will take part in an informal lunch-seminar in E53-482. His topic will be "The Political Economy of the Indonesian Intellectual Elite."

* The Registrar's office will assess a \$5 processing charge on any student making a first term registration change after November 30.

* The Committee on Academic Performance advises all freshman to be certain to be within the 60-credit limit on courses on or before Drop Date, November 30.

NASIC will ease library research

(Continued from page 1)

determine how other universities can establish similar information services and put them on a self-sustaining basis.

With the exception of the biomedical data base, which is part of a National Library of Medicine program, the new services are part of the Northeast Academic Science Information Center network (NASIC). Supported by the National Science Foundation, NASIC is designed to provide more complete information transfers within the scientific community.

The NASIC network will ultimately have information centers at university libraries throughout the northeast. MIT is the first university to have access to NASIC. The MIT Libraries, Information Processing Center, and Electronic Systems Laboratory are assisting the New England Board of Higher Education in the development of NASIC.

According to Professor J. F. Reintjes, director of the Electronic Systems Laboratory, "NASIC is much faster and covers a much broader range of literature than conventional published bibliographies." Among computerized bibliographical services, NASIC is unusual in that it has on-line (interactive) access capabilities for retrospective searches.

As an on-line system, NASIC allows the user to modify his search strategy as he proceeds.

Before leaving the terminal, the NASIC user can have a list of references in hand. Reintjes noted that the off-line (batch) systems available elsewhere may take as long as three weeks to produce such a list. However, off-line access costs less it is available for some NASIC data bases.

A person wanting to use NASIC would first make an appointment with a NASIC information specialist at one of the five MIT divisional libraries (Dewey, Barker Engineering, Science, Humanities, and Rotch). The information specialist will help translate the problem into the language of the information retrieval system and will suggest search strategies that will minimize terminal time. The user can normally get the desired information within 15 to 30 minutes.

Reintjes emphasized that because of the idiosyncrasies of the data bases, the consultations with the information specialists are very important. For example, a person searching MEDLINE, the biomedical data base, would not find anything under the heading "cancer." "The appropriate subject listing in this case," Reintjes remarked is "neoplasms."

Although there is a charge for NASIC terminal time and the assistance of the information specialists, Reintjes thinks that the cost may be low enough to make NASIC useful for undergraduates doing term papers or

graduate students making literature surveys or doing research. During the current academic year, the first several hours of assistance from the information specialists is free. Thus, Reintjes concluded, a person could search MEDLINE, which is heavily subsidized, for as little as \$5; the other data bases are more expensive.

In addition to being available at the five divisional libraries, NASIC terminals can be installed elsewhere. Demonstrations using portable terminals will be offered during IAP.

As the number of on-line bibliographical data bases grows, NASIC will expand in scope. Engineering, physics, and government-sponsored reports will soon be covered.

Although many computerized bibliographies exist, few of them have on-line access capabilities.

At present, NASIC is dependent upon other organizations for the development and maintenance of on-line data bases. For instance, the US Office of Education provides ERIC, the education data base now available through NASIC.

Eventually, NASIC itself may develop new data bases, Reintjes said. Also, NASIC may provide numerical data, such as US Census information, he added.

LSC

Who killed President Kennedy? Free lecture by Robert Saltzman 7:30pm, Mon. Dec. 3, KRESGE

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Editorial

It was less than a year ago, on January 22, 1973, that the Supreme Court brought the United States up to date by declaring that the right to privacy included the right of a woman to decide if she wished to terminate a pregnancy.

The decision in *Roe v. Wade* divided the period of pregnancy into trimesters, with the choice of abortion left to a woman and her physician in the first, allowing some state interference in the second, and state regulation of actions in the third trimester.

In a related case, *Doe v. Bolton*, the court struck down residency requirements, and rules calling for approval of an abortion by hospital boards and multiple physicians.

The decision is being threatened by a group of people who call themselves "right to life" supporters. They have scant regard for the rights of an already existing mature human being, the pregnant woman. Calm, rational people belong to such organizations as do individuals who like to show off aborted fetuses, and who firmly believe that women should remain entrenched in the home. *The Tech* believes, and has stated that women have the right to control their own bodies.

These rights are in serious danger of being abridged by several constitutional amendments being considered by Congress, most especially the Hogan Amendment, offered by Rep. Lawrence J. Hogan, R-Md, now before the House Judiciary Committee.

Calling for equal protection under the law for all "human beings from the moment of conception," it would prevent abortions even in cases of certain danger to the mother, and open a panoply of horrors in the area of pre-natal rights.

Hogan is in such a hurry to get the bill to the floor that he has begun a "discharge petition" to get the bill out of the committee that left the ERA languishing for 50 years. The Hogan amendment was first introduced last January 30. It is wrong; it must not be made law.

It is essential that the well organized campaign of the small yet vocal minority of right-to-lifers be countered by a serious flow pro-human letters.

Write, wire or phone your Representative and/or Senator. Whether you are a woman or a man, it is important to you that the Hogan amendment stopped before it reaches the floor of the House.

Letters to The Tech

To the editor:

Now that we're all far removed from Rush Week, and from much of the emotion that surrounded it, I'd like to interject into this bi-weekly advertising and arts sheet a piece of "editorial-type" copy. I trust that your competent staff can cope with this startling innovation.

First, a few whys and wherefores (facts & figures). *Rush* is a phenomenon associated with fraternity life across the country. Many campuses will rush only sophomores and juniors. Most wait at least a term or so before even considering rushing an incoming freshman. This type of system allows freshmen to become acquainted with college life before making social living decision such as participating in fraternity life.

To my knowledge, MIT has a unique concept of *Rush Week* — forced onto it by unique circumstances. Everyone knows that MIT only has Institute housing for under 70% of its resident undergraduate student body. No one actually *likes* the situation of compressing an important residence decision into the first four days of a freshman's college life. The Administration, the IFC, and the individual fraternities themselves would gladly see our *Rush Week* disappear in favor of any viable alternative. But the best any of us can do is make our small contributions to minor procedural changes.

Unless MIT becomes an institution with sufficient housing on campus for all

its students, we are stuck with a case of our freshmen jumping off their planes at Logan and being swept into a frenzy we now call Residence & Orientation. To achieve that goal, MIT could either increase its housing by approximately 30% or decrease its enrollment by 30%. Both options would turn our campus into quite a zoo — not to mention the \$1000 or so tuition increase that would be needed to continue educational operations. (Or perhaps we could make the dorms so undesirable to live in that most of the upperclassmen would move into apartments — maybe reinstate compulsory commons — and thus have dorm space for every admitted freshman in September). I don't believe any stone has been left unturned in the search for a change from the *Rush Week Madness* Paul Schindler wrote in his Column of September 11.

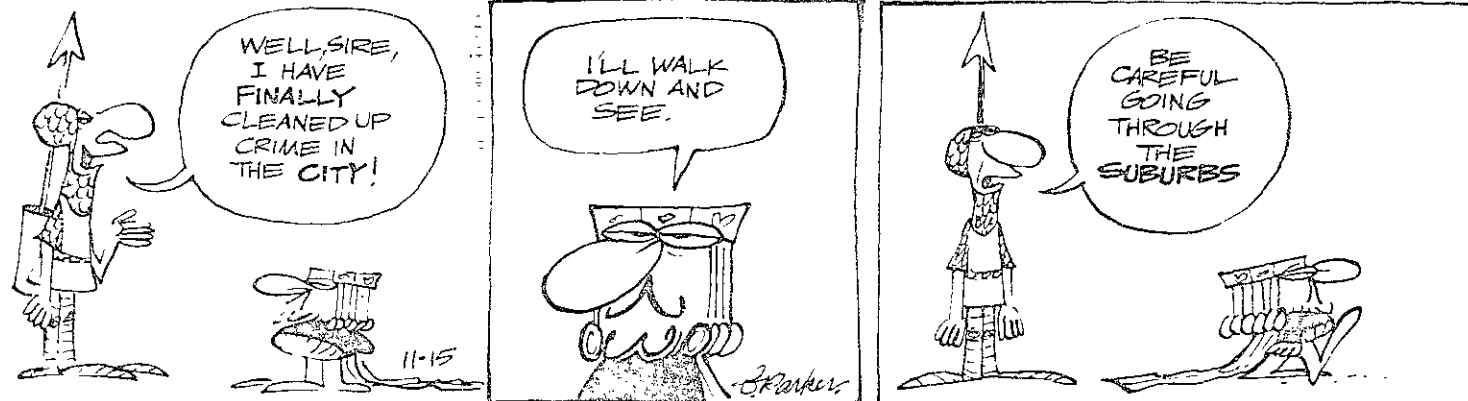
For these reasons I ask any further commentary on *Rush* or its procedures to at least include some perspective on why it is bad (if it is) and on the efforts which have been made to improve it.

The Administration and the IFC are more than receptive to any suitable input, both in regard to *Rush* and to any related problems. Mr. Schindler, please consult someone who works in this area before flaming about it again. And whoever deposited the note of "good will" in the IFC Judcomm Chairman mailbox on 11/5 — I defy you to bring one like it and place it in my hand!

Dave Gromala

THE WIZARD OF ID

by Brent Parker and Johnny Hart



Letters to The Tech

To the editor:

In your article of November 16 concerning the Institute's goal of more applicants, the increase in the number of women was attributed in large part to the mailing of a recruitment booklet about women at MIT. The article strongly implies, though it does not state, that this mailing was accomplished entirely through the idea and efforts of the Admissions office. This is not quite the case. The booklet was conceived by a group of women students who planned and produced it with the aid of women staff members. It was funded by the Chancellor's office and distributed by the Admissions office. Thank you for letting us clarify this point. (We both worked on the book).

Pam Jorgenson
Catherine Mink

To the Editor:

They said it couldn't be done — winning an election without gimmicks, without tricks, but rather on pure openness and honesty. Well, to be honest with you, I'm so ugly that my mother has to capture the sandman for me to go to sleep. In fact, on hearing that my face is a retread, someone remarked that it's more like a snow tire!

Now let me give credit where it is due. First, to my henchwoman and henchmen, without whose unfilutuginating dedication, I would not have had a micro-chance.

Secondly, I must extend my most heartfelt appreciation (no pun intended there, Count) to my competitors. This was one hell of a fight for all of us, a neck-in-neck battle to the end.

Not least, but last of all, I very gratefully thank the people of MIT who gave so generously to this worthy cause. Many thanks also to our sponsor, Alpha Phi Omega, and the many people who engineered the whole operation.

And now, for the first time in a week, let me say this to everyone as a compliment rather than as an insult:

You're Beautiful

Thank you very much.
Phillip Horace (The Horrible) Mandel,
UMOC

(The APO Ugliest Man on Campus contest ended with Phil Mandel in first, Count UMOC second, Nick Danger third, and Paul Schindler fourth. The winner broke \$1,000 for the first time in the history of the contest — Editor)

To the Editor:

I have seen some terrible bike riding, jay walking, and driving in and around MIT, and before more people get seriously hurt, there are some rules that everyone should know. Although we cannot do much about Boston drivers, MIT bicyclists aren't much better and they can be improved. Being a bicyclist myself, I'd like to mention a few things that will prevent many accidents and possibly deaths.

For bicyclists (A new law is taking effect December 1. All bicycles have to follow all rules for motor vehicles):

1. It is illegal and dangerous to ride on the sidewalks — ride *with* traffic. Although it is easier to go on the sidewalk from Mass Ave (southbound) onto Mem Drive (eastbound), spend the extra minute to go to the other side of the Drive. Don't ride against traffic, even for a block!

2. Put reflectors (side, front, and rear) on your bike (the set costs \$2.50 at any bike shop) and wear a light.

3. Don't expect drivers or pedestrians to see you. They most likely don't. Drive defensively.

4. Give pedestrians the right of way, especially at 77 Mass Ave.

5. Use hand signals whenever you turn or stop. And *Look* before turning.

For pedestrians:

1. Wait for the walk sign at 77 Mass Ave! Even after the sign appears, look both ways for bikes and cars (and trucks!), especially at night.

2. If crossing at other places (non-intersections), look both ways, especially for bikes on the wrong side of the street.

For motorists:

1. When turning right, look to your right for bicycles.

2. When coming out of a driveway or intersection onto a main road, don't just look for cars, look for bikes (from either direction), especially from Mem Drive onto Mass Ave. At night, don't just look for headlights of cars. Bike lights aren't too strong (even when they're used).

Thank you. These are very basic rules, but if everyone would follow them, we'd have a lot less bike-related injuries and more people might want to ride bikes.

Jon Sass
Class of 1976

To the Editor:

Re the Wellesley-MIT exchange bus — when you've got a good thing going, don't blow it! Recently I have heard some complaints about the bus service, and I've heard rumors that this bus company may be "fired." Before it is too late, I would like to express some support for this company.

Many other companies have been tried before. This company is much better than last year's, and I have been told that previous years were even worse — frequent breakdowns, late buses, buses that never came. By contrast, this year the buses seem to be almost always on time. When a bus breaks down, another one is dispatched at once by radio. The drivers also use radio to communicate between buses in order to find out about traffic jams and take alternate routes to avoid them.

One complaint I've heard is that student's can't eat on the bus. This happened because those that did eat consistently left their trash behind to be cleaned up by the drivers. It only seems fair that eating on the bus is now forbidden.

Another complaint I've heard is that because the bus leaves on time, some people have missed the bus!

If those of us who are satisfied with the service ride apathetically along, we will soon find ourselves sitting on the highway in one of the other company's buses that has broken down. Therefore, I urge all who are pleased with the service to get in touch with the exchange coordinator Mr. Pickard and let him know how you feel.

Mary Jane Schultz
Graduate Student
Course V

Continuous News Service

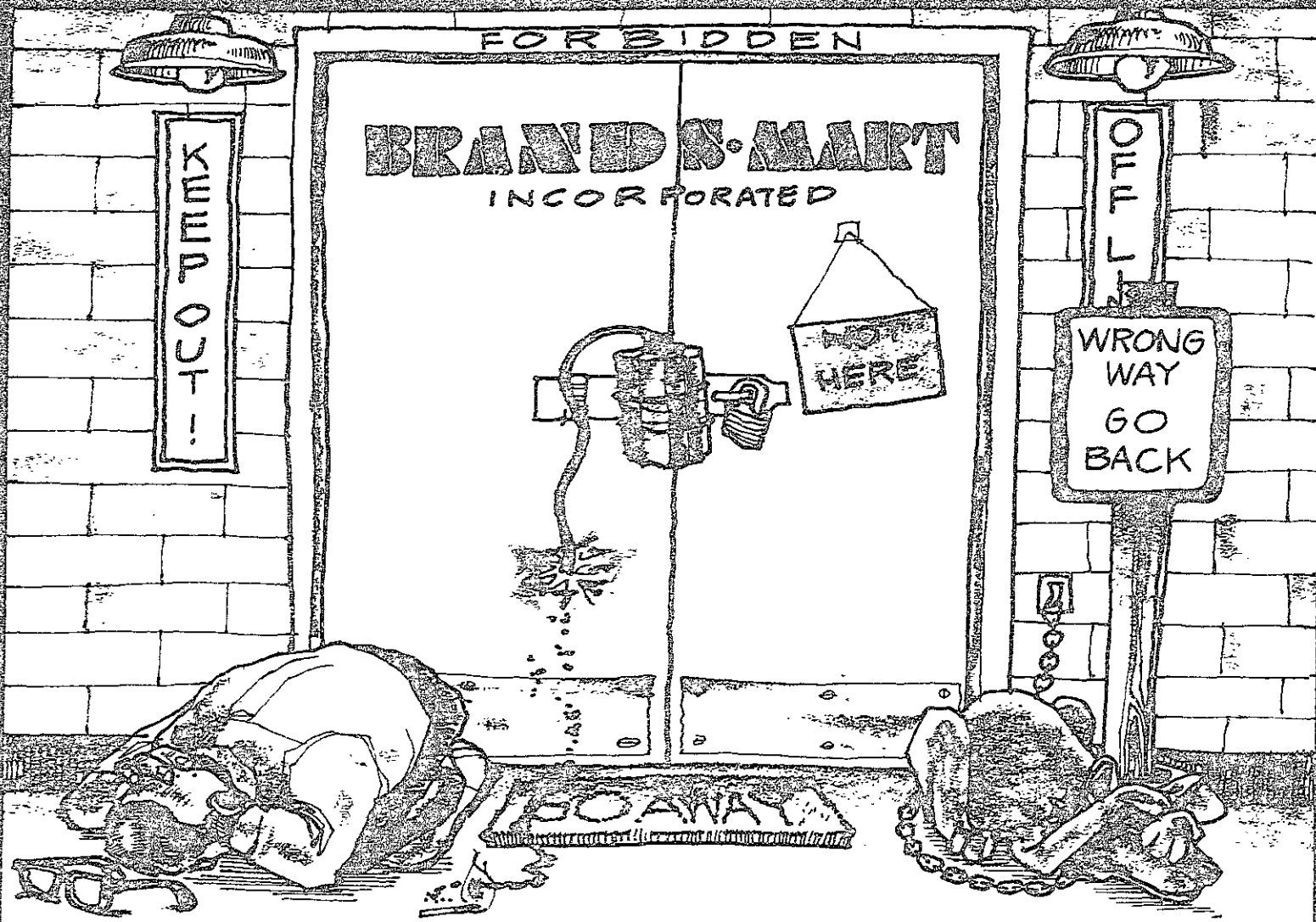
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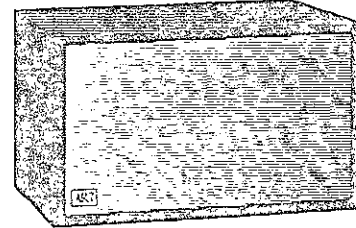
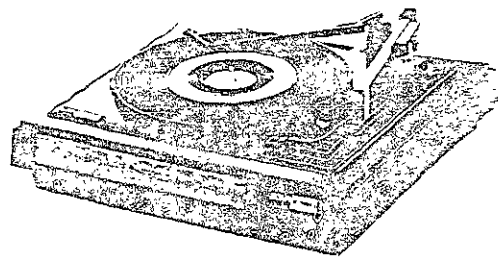
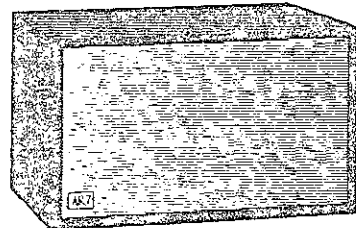
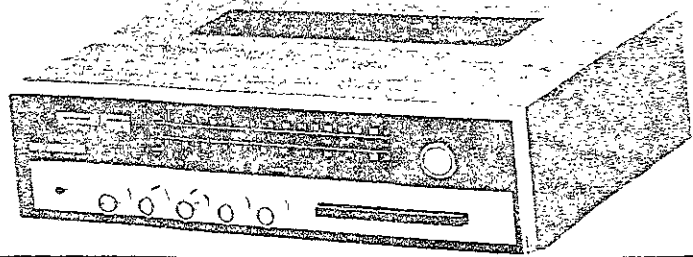
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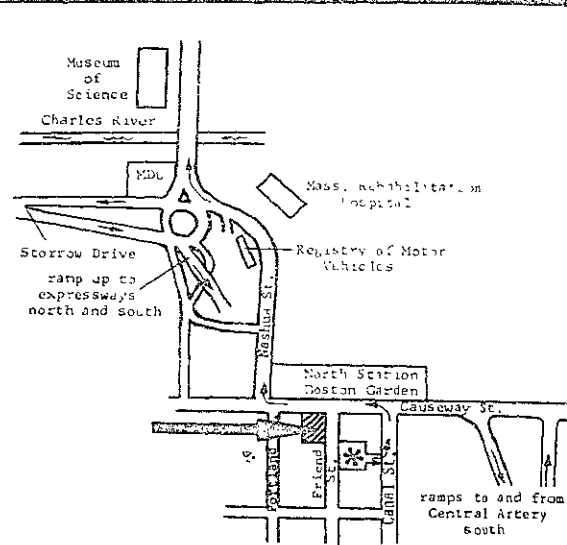
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can MIT do about it?

(Continued from page 6)

Q: How about the inter-fuel competition model? A: That was started on a proposal that I put together. This issue involved studying the energy problem in an integrated way. We got the money from RANN for this work, and it has continued, and we have continued to expand that model. We are now putting

no because we are understaffed and trying to build a program.

If we became a central office that tried to take care of these things, we wouldn't get anything else done. So when undergraduates do come in, I try to find out what their area of interest is, and feed them back to the faculty in that area. By and large, if they look within their

want an information office that can do that job. We are now spending all of our time trying to raise money, to find programs, write proposals, and get started. The Laboratory itself is not an academic function. Its academic function is played through the faculty and through the departments, and not through the laboratory. In time, that's the way it's set up, and that's the way it ought to stay. If we ever reach the stage that we are a good viable laboratory, then we ought to have an arm that makes this facility available to communicate with faculty, students, and others.

All energy efforts with faculty and graduates involved have undergraduates involved.

in environmental effects.

It is a really interesting piece of work and it is the only model that deals with all fuels and the effect of price in determining what share of the market they meet. So it's a good analytical device to run scenarios with under different conditions.

Q: Are the assumptions good?

A: They are very good. Any model is only as good as those assumptions. One has to work on them, to make them truly characteristic.

Q: Are there energy research opportunities for undergraduates?

A: All the energy efforts that are underway that have faculty and graduate students involved have undergraduates involved also. As research in this area increases, I can see more and more places for undergraduates. It will also feedback and affect course of offerings.

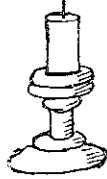
Q: Is your office a clearinghouse for help finding projects? A: The answer is yes and no.

The answer is yes because we know what is going on, but it is

own departments, they will spot the right person.

If they can't do it any other way, they can come on over, and I will see that they get fed into the system.

When we get big enough, I



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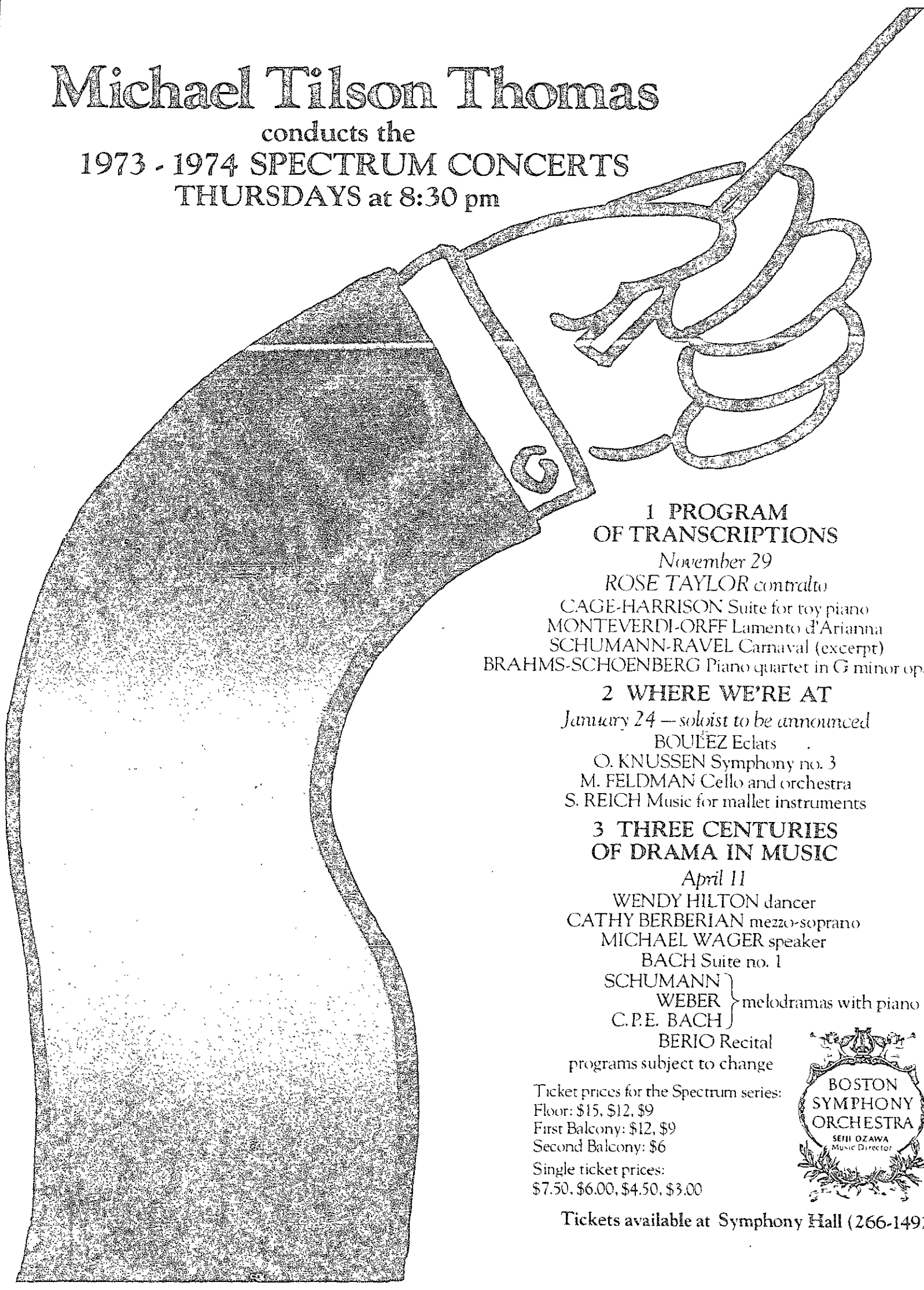
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ROSE TAYLOR *contralto*

CAGE-HARRISON Suite for toy piano

MONTEVERDI-ORFF Lamento d'Arianna

SCHUMANN-RAVEL Carnival (excerpt)

BRAHMS-SCHOENBERG Piano quartet in G minor op. 25

2 WHERE WE'RE AT

January 24 — soloist to be announced

BOULEZ *Eclats*

O. KNUSSSEN Symphony no. 3

M. FELDMAN Cello and orchestra

S. REICH Music for mallet instruments

3 THREE CENTURIES OF DRAMA IN MUSIC

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CATHY BERBERIAN mezzo-soprano

MICHAEL WAGER speaker

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WEBER }

C.P.E. BACH }

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