

Professor of Biology Maurice Fox (inset) will probably head the Committee on Biohazards

## Biohazard group proposed

By Mike McNamee

Appointment of a Committee on Biohazards to study and keep track of research at MIT involving biohazardous agents is apparently underway within the administration, although no one is sure where the matter stands.

An informal committee of faculty and DSR staff in the Cancer Research Center, the Departments of Biology and Nutrition and Food Science and the Environmental Medical Service has drawn up a proposal for such a Committee on Biohazards at the request of Provost Walter Rosenblith.

Under their proposal, the committee would maintain a register of biohazardous agents and collect up-to-date information on control of such agents and safe procedures to be used when research is conducted with them. The group would also have responsibility for ensuring MIT's compliance with federal regulations on biohazards which are expected to be issued soon.

Biohazardous materials fall into two classes: recombinant

DNA agents, organisms which contain genetic material modified by recently-discovered microbiological processes which some scientists feel could lead to "genetic engineering" in the laboratory; and actually or potentially pathogenic agents, organisms such as tumor viruses which can cause disease in humans.

Scientific and public concern over biohazards has increased sharply in recent months with the publicity given to an informal moratorium on recombinant DNA work at several research centers because of biohazards and fear of "genetic engineering."

The proposal has been received by Rosenblith, who told *The Tech* last week that appointment of the committee "should

be firm" this week. But neither administrators contacted by *The Tech* this week nor Professor of Biology Maurice Fox, who coordinated the preparation of the proposal for Rosenblith, was sure if the committee's existence has been made official or what its composition would be.

"Nothing formal has been set, and the question is still reasonably vague," Fox told *The Tech* yesterday. "There are still questions about staffing the committee that present some obstacles."

Fox said the proposal calls for "a technical advisory committee" which would have four specific functions:

- Establishing and maintaining a registry of biohazardous
- (Please turn to page 9)

## IFC fines LCA \$500 for bridge incident

By Eileen Mannix

Lambda Chi Alpha fraternity has been hit with a maximum fine of \$500 for "irresponsible and detrimental" behavior in the "Smoots incident" on the Harvard Bridge, the Interfraternity Conference Judicial Committee said last night.

The committee assessed its maximum fine against the fraternity after taking evidence on an alleged incident in which three freshmen from Phi Gamma Delta (Fiji) were seized on the bridge, taken to the LCA house and abused by LCAs when they were caught painting over the "Smoot marks" on the bridge.

The committee also ordered Fiji to restore the bridge to its condition prior to the incident of Oct. 24. "Smoot marks" traditionally are painted on the bridge each year by LCA freshmen.

The treatment received by the three Fiji freshmen at the LCA house, which Associate

Dean for Student Affairs Ken Browning '66 earlier called "fairly extreme," was deemed "irresponsible and detrimental to the MIT fraternity system," according to a statement released after last night's hearing by the Judicial Committee. The committee did not release any statement of the facts of the case or of its findings.

The fine will be made payable to the IFC treasury, but up to \$300 of the total may be spent for the sake of improving relations between the two fraternities. The actual amount put to such a purpose will be subject to Judcomm's approval.

The damage done to the bridge by Fiji members is to be rectified by May 1, 1976, to the satisfaction of Judcomm.

*The Tech* was told that Fiji members who had considered civil suits against the LCA members involved had dropped their plans in favor of internal disciplinary action by the IFC.

### News Analysis

## Cost of federal programs rising

By Mike McNamee

(Third and last in a series)

Any statistician knows that in many cases, it's not the size of the numbers he's studying that count, but how fast they're growing or shrinking.

The population of a country or the mean income of its citizens often don't mean much by themselves. But the rates of increase of those figures can be a goldmine for study and analysis.

A similar situation applies to the costs of federally mandated programs upon colleges and universities - it's not the absolute numbers that matter, but the rate at which they're growing.

A recent American Council on Education (ACE) study of six private and public institutions shows that federal programs like Affirmative Action, occupational safety regulations, Social Security, and unemployment benefits imposed costs totaling from 1 to 4 percent of the institutions' budgets.

While those figures seem low, the study also pointed out that such costs had risen by a factor of 10 to 20 in the last 10 years. That rate, the study said, was "considerably faster than increases in the costs of instruction."

And the rate of increase itself

is increasing, meaning that there's no sign of the government letting up in imposing expensive programs on strained college budgets.

Instead, new programs are constantly rolling out of Congress and the executive agencies. Title 9 sex-discrimination legislation, privacy legislation affecting employee and student record-keeping, new Internal Revenue Service regulations, and new employment-security legislation are among the new programs flowing out of Washington to make their bite felt on colleges and universities in the last year.

Each new program means an administrative and legal burden even before it is implemented, according to Vice President for Administration and Personnel John Wynne, as the Institute administration and legal offices move to respond to proposed rules, provide data and testimony on MIT practices, and lobby to try to lessen or modify the impact of the new programs. (Please turn to page 7)

## Insurance rate not rising despite Tang Hall fire

By Thomas Mayer

MIT pays large sums for insurance every year. Next year will be no exception, but despite the Tang Hall fire the Institute will be charged no more than it has been in the past.

According to Kimball Valentine, MIT Insurance Officer, "Tang Hall has not changed the Institute fire insurance rates." Valentine explained that the Tang Hall fire last July, while tragic because of the death of Renato Riberio G, was a relatively small fire in dollar terms.

While the final cost of the fire has not yet been estimated, Valentine predicts that it will total about \$25-40,000. Valentine said that a wastepaper fire in his office would produce "smoke-smudge" damage totaling some \$5000. Claims by the Institute have in past averaged around \$10,000 annually.

The claim on the Tang Hall fire will be paid by the Institute's insurance companies, two members of a group of "Factory Mutuals" that provide coverage for MIT. The Institute in the last five years has averaged around \$136,000 in annual insurance payments, according to figures furnished by Accounting Officer John O'Sullivan.

The insurance offered by the Factory Mutuals isn't a bargain, but the Institute isn't in the market for a bargain. Valentine said that what the Institute was really paying for was the excellent service provided by its insur-

(Please turn to page 10)

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|------------------------|-------------|
| DEFICIT                | RESEARCH    |
| OVERHEAD               | TUITION     |
| FUND DRIVE             | INVESTMENT  |
| ENDOWMENT              | REAL ESTATE |
|                        | FINAID      |
| <b>FEDERAL FUNDING</b> |             |



Fears of an angry protest proved unfounded as the Wednesday dedication of the sculpture "Transparent Horizons" came off "with no problems at all," according to Professor Wayne Andersen, chairman of the Committee on the Visual Arts. There will be an open forum at 5pm Monday in the Bush Room, 10-105, at which time members of the community will be able to express their views, whether pro or con, on the work by Louise Nevelson.

This is the last issue of *The Tech* for the fall semester. Publication will resume in January with three issues published on Fridays Jan. 9, 16, and 23. Regular semi-weekly publication will be restored on Tuesday, Feb. 3. The staff of *The Tech* wishes all our readers a very happy holiday season.

# NOTES

\* Cards enclosed with February degree notice must be returned to E19-344 no later than January 23, 1976 to indicate whether diplomas are to be mailed, called for in person, or received at Commencement, May 28, 1976.

\* There will be an open reading of the Christmas section of Handel's *Messiah* today at noon in Lobby 7. Bring your own music if possible; there will be an orchestra and soloists. Refreshments will be provided.

\* The Association of MIT Alumnae invites departments, students and faculty to nominate candidates for the Association of MIT Alumnae Senior Academic Award. The Award will be given on the basis of academic excellence to a woman student in the class of 1976. Factors that will be considered are cum. and depth and breadth of academic accomplishments as shown in course work, special projects, and/or thesis research. The Association of MIT Alumnae is especially interested in receiving nominations from departments' research advisers and members of the class of 1976. Nominations should be addressed to Professor ChoKyun Rha, Room 56-137. Nominations should be submitted by Jan. 10, 1976. The Award will be announced at a Special Senior Meeting sponsored by the Alumnae on Feb. 8, 1976.

\* The Student Information Processing Board will offer a self-paced course in the programming language PL/1 during IAP. For more information, contact the SIPB office, Room 39-200, x3-7788, between 3 and 5 pm.

\* A Vegetarian Hand Grenade in *Four Acts* will be presented again (by popular supply) in Room 54-100 on Tuesday Dec. 16, 8-9. Free.

\* The Apple Hill Chamber Players will give a chamber music concert at Kresge Little Theatre, Sunday, Dec. 14 at 8pm. Program: Saint-Saens, *Bassoon Sonata* (with dance); Varese, *Density 21.5* (with dance); Ibert, *Piece for Solo Flute* (with dance); Schumann, *Piece for four-hand piano* (with dance); Brahms, *Piano Trio in B-major*, Op. 8; Maria Jimena Lasansky, dancer and choreographer. Tickets are \$4, \$2.50 for students and senior citizens. Call 547-7727 for further information.

\* The Harvard Graduate School of Design announces an exhibition, "Bicentennial Boston: A Photographic Exhibit," to be presented from January 5, 1976 to January 31, 1976. This exhibit is part of a city-wide exhibit prepared by the Boston Visual Artists' Union in conjunction with Boston 200. At the Harvard Graduate School of Design, the exhibit will consist of photography by Boston artists Robert Phipps, David Allard, Virginia Mason, Norman Hurst, and others.

\* Shlomo Caulebach will be in concert Sunday, Dec. 14 at 2 and 7:30pm in the Joy of Movement Center, 536 Mass Ave., Cambridge. Tickets at door. For more information, call 492-4680.

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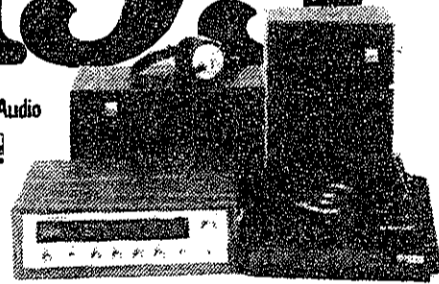
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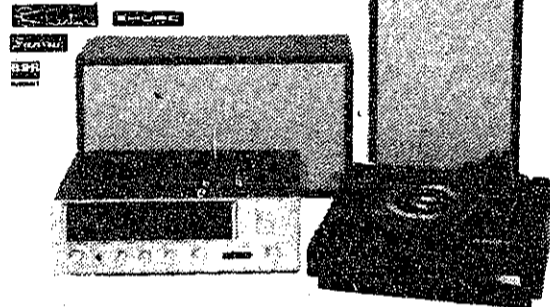
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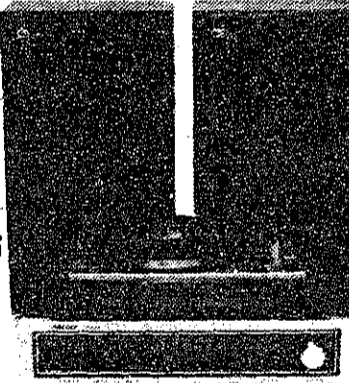
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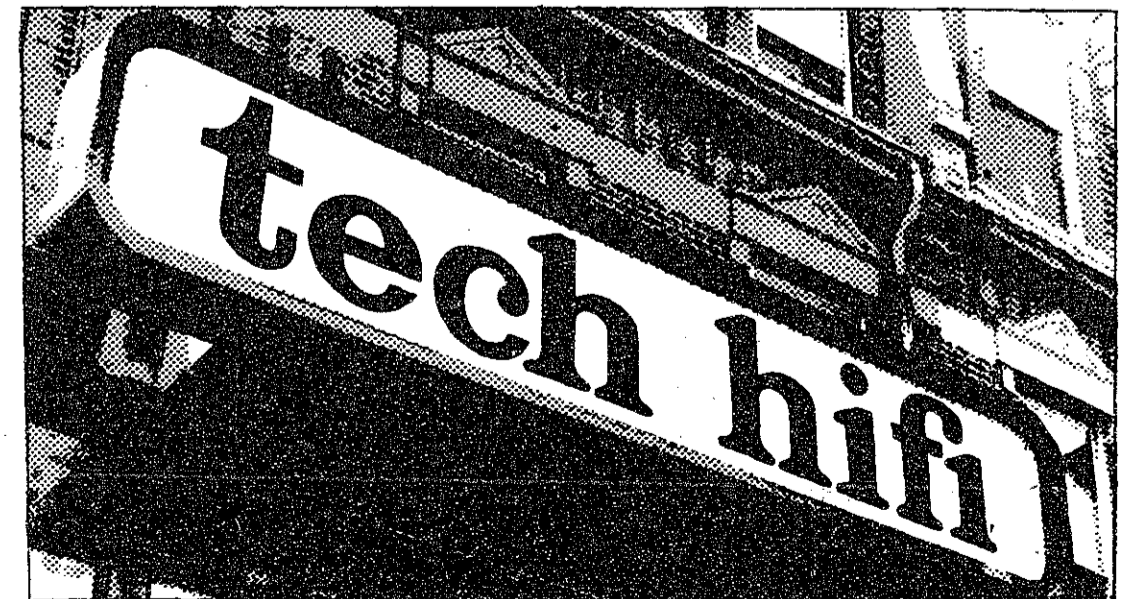


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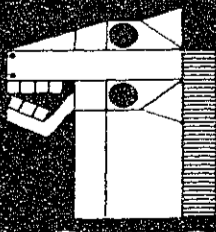
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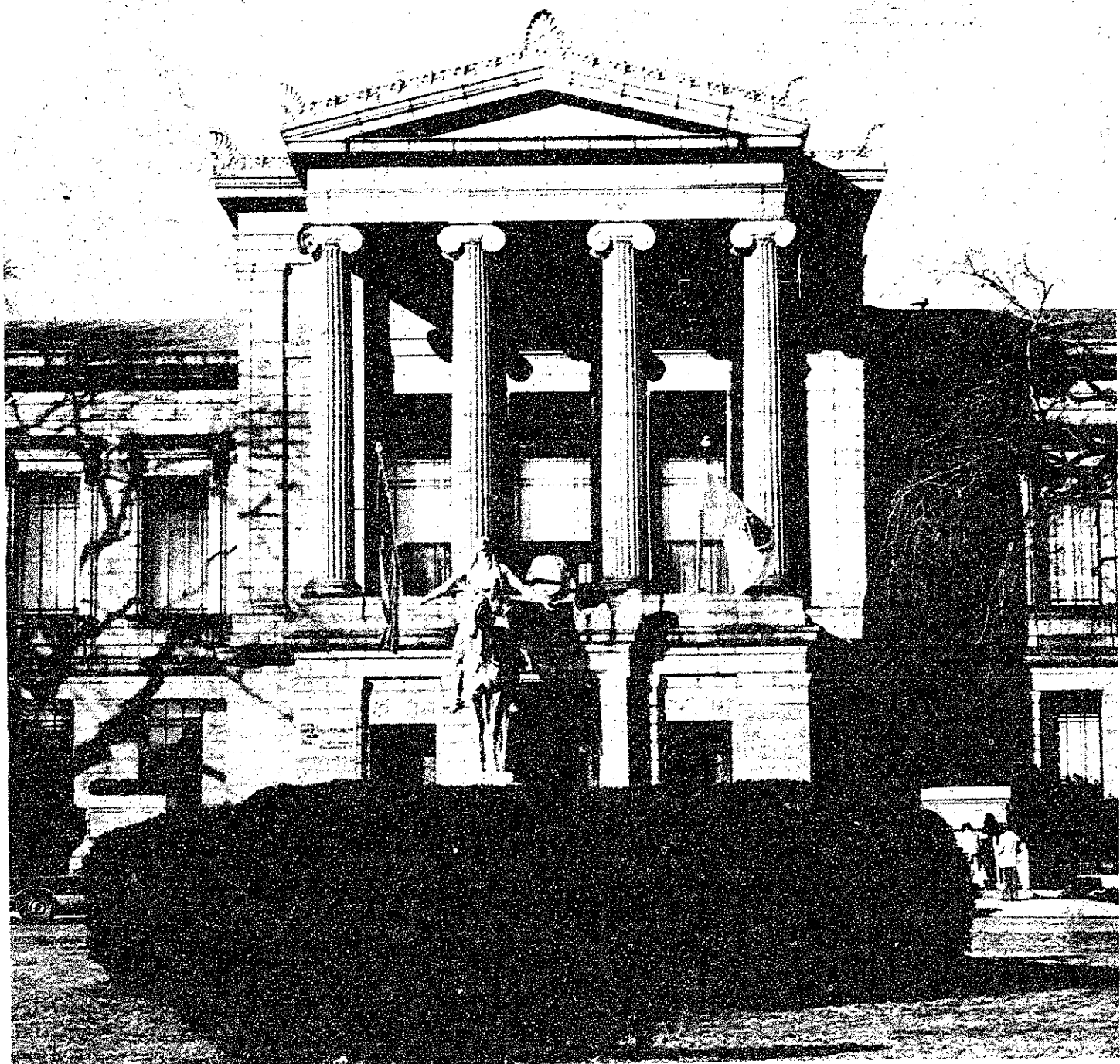


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Tom Kilmowitz

## Johnson enjoying new MFA job

By Mike McNamee

The *Boston Globe* said on Sept. 19 that he was the guy you would least expect to get the job.

Howard Johnson, former president of MIT and current chairman of the Corporation, had just been named president of the trustees of the Boston Museum of Fine Arts. The manager — Dean of Sloan School after directing Management Research at the University of Chicago — who reorganized the administration of the nation's leading scientific school as its president, was being named to direct one of the oldest art museums in the nation — and one of the most troubled. It didn't seem quite right.

A few days later the *Globe* recanted in a long Sunday story which discussed Johnson's interests in the arts and in museums. The idea that art doesn't mix with engineering, science and management was still making its unstated presence felt, as the *Globe* reporter tried to prove that, someday or another, Johnson was a man with one foot in each camp. The story wasn't too successful at making its point.

Johnson, however, doesn't see anything unusual about a man with his background holding down such a spot in the arts world, — and not because his parents took him to museums and had art in the Chicago house where he grew up. Johnson has always maintained that there is no battle between arts and technology, and that the two fields can be even more interesting when they lend their talents to each other. The growth of arts activities at the Institute started under his administration — a reflection of his belief.

Even more important, Johnson doesn't see any conflict between his two jobs as chairman of the MIT Corporation — which involves overseeing the administration, acting as holder-in-trust of the assets and properties of MIT, and raising money for the Institute, — and as president of the MFA trustees — which involves identical duties. In fact, Johnson says he's glad to have the second job now — he feels "challenged" by the MFA spot.

There's a lot to challenge him. The museum is coming off one of the roughest periods of its history, rocked by financial problems including a tripled deficit, and staff dissension which culminated in the firing of ex-Director Merrill Rueppel in June. The Museum is still operating under an interim director, with no sign of a permanent replacement in sight. Expensive renovations, including the \$10 million installation of climate-control machinery needed to preserve the museum's art treasures, are under consideration. Johnson's role as head of the trustees "is no honorary position these days," he says.

Johnson sees his first priority as making the necessary decisions to get things rolling in the museum. Concentrating his efforts on the search for a permanent director, he is also canvassing the field of potential donors to find whatever funds are available to build the museum's endowment and undertake renovations. Grants from the National Endowment for the Arts are being sought for some restoration projects.

Even more important, however, is maintaining what he sees as "an era of good feeling" between the torn staff and trustees. "There's a sense of getting it all together at the museum right now, sort of a collective sigh of relief that our past problems are behind us and we know what we're doing," he said. "But we can't rest on that — you always have to follow up, to produce action to keep the good feeling alive. The 'era of grace' could end any time now."

Keeping that good feeling and the feeling of progress is one important factor in another image-building step which Johnson feels is important — returning the museum to its former position of esteem in the eyes of the professional world. "One art director recently called the MFA 'a Sleeping Beauty' — everybody knows that it's a great museum, but there are still many questions in the wake of its earlier troubles," he said. "Within the walls there's a better sense of the place; it feels more vigorous and alive than it did in its troubled period. But that perception takes a while to communicate to the rest of the professional museum world, and many people are watching us with some interest."

Beyond the immediate needs for better direction, Johnson is concentrating on his fields of greatest strength — management and fund-raising. The museum's development program is undergoing study to make fund-raising more effective, and Johnson is exploring unusual sources of philanthropic funding — including the federal government.

"We're receiving some small amounts of money now from the National Endowment for the Arts, but there are broad areas of research and scholarship that could benefit from federal funding," Johnson explained.

"Research on restoration of paintings for example, is critical. I'm considering joint programs with the several universities in the area under government funding in research that utilizes each institution's greatest strengths — scientific studies at MIT, art history at Harvard, history at Wellesley, and so forth — and lends the museum's strengths to them."

Federal funding "should never be a major part of the budget — no more than 10 to 20 percent," Johnson said, and should not be used for acquisition — "not as long as tax laws favor donating arts works to museums; all you'd do is put a floor level under art prices." (The age of acquisition as museum's major activity is over anyway, Johnson said.) But the federal interest in preserving museums is great, Johnson said, and local resources often aren't up to the task.

In the first three months on the job, Johnson said, no one had confused his two roles as chief trustee and fund-raiser for MIT and MFA. "Which hat I'm wearing is usually clear." Despite his view of the lack of an art-to-technology gulf, he finds himself often moving in a different circle for each job. Expanding his coatrack to hold one more "hat" hasn't cramped the style of manager Johnson any more than it hurt arts-interested Johnson. He likes his job(s).

# Opinion

## 'Politics' must enter biohazard studies

By Mike McNamee

Leaving aside the Abbott-and-Costello routine the administration is going through on the appointment (see page 1) of a Committee on Biohazards - the Provost says the Associate Provost knows all about it, but he says the guy who wrote the proposal is the one to talk to, although the proposer swears he hasn't heard back from the Provost's Office yet - the appointment of that group, when it finally comes, will be one of the most welcome pieces of news at MIT in some time.

Biohazardous agents - unusual genetic material and tumor-causing viruses are two examples - and their control are responsible for the hottest controversy in science today, barring, perhaps, that over the Loch Ness monster. Public awareness of the questions involved has increased to the point where federal controls on biohazardous agents are under consideration. Scientific concern, which is often greater than public concern but much more difficult to mobilize, has reached such a level that many microbiologists have voluntarily accepted a moratorium on some types of recombinant DNA research - a move which has sparked a sideline controversy over academic freedom and the propriety of "censorship" of research.

MIT's moves towards assuming a ground-breaking role in dealing with the technical question of biohazard control are important and welcome. The proposed committee would be doing what MIT committees often do best - making technical judgments and offering advice on technical matters. If the Institute makes the complete effort which the situation requires, including provision of the staff needed by the committee, this group can be instrumental nationwide as a repository for information and experience with these hazards.

As the committee is now planned, however, MIT's leadership role will stop at the point where technical questions become subordinate to value judgments, where considerations of the effects of such research goes beyond the immediate health and safety of researchers to study the social and environmental ramifications. That's not surprising; MIT has repeatedly refused to involve any formal faculty or administration body in any question which smells in the least of dreaded "political views."

From the issue of war research through the era of environmental consciousness to recent debate over international programs, the MIT faculty has been the main instrument in blocking review groups or procedures which could be tainted by political questions. The fact that the biohazards group will be a Provost's committee and will not require faculty approval makes no difference, since the administration is, if anything, more set against "politics" than the faculty.

There's a growing belief in the academic community, however, that these "political questions" are soon going to have to have a limiting effect on the freedom of a scientist to do whatever he pleases in the name of academic freedom. Biohazards provide an excellent situation for allowing a toe-hold for policy questions that go beyond determining just whether the scientist wants to do the work.

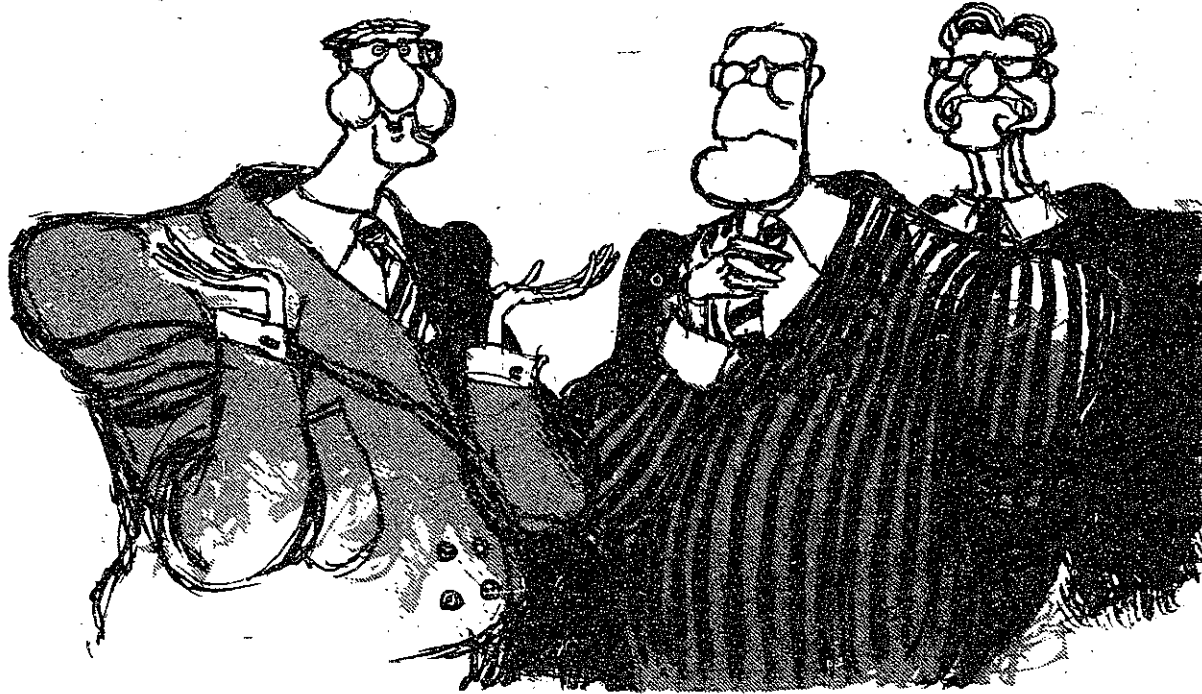
Public concern over biohazards can be aroused easily. Side-effects of biohazardous materials are easily understood - even if they are hard to document. Even using strict standards for documentation, the National Cancer Institute has found 2000 cases of infection by biohazardous agents leading to some pathological disease - diseases that could be spread if the Cambridge water supply was contaminated by washing glassware infected with these agents, for example. The public would probably be willing to believe the worst about research which might lead to contamination - or about the even-more-frightful possibilities of "genetic engineering."

Even more important, scientific concern can be aroused where it counts - in the fields affected by any limitations. Microbiology in one of the leading fields for significant research today; as a result, many of its researchers are younger, more liberal, and more activist than those of more established fields - facts that are borne out by historical experience in "hot" scientific areas. The additional experience with absolute government power in anti-war activism should lead these microbiologists to be more skeptical of the absolute power of the scientist over his work than their compatriots in other disciplines.

The risks involved in biohazardous research have already been acknowledged by the people most closely exposed to them - the technicians and lab assistants who wash the glassware and handle the cell cultures. They have moved to take control of the risks away from the faculty scientists by forming their own Worker's Health and Safety Committee to backstop and oversee the work of the official committee. Some of the members of the committee see their move as a step towards protecting themselves from their bosses - a step similar to formation of a union, the distinction being that they are talking about lives, not wages.

If the scientists don't do something about the "political" questions, don't establish ways of assessing the impact of research on something other than the researcher's academic credentials, don't acknowledge risks that outweigh claims of academic freedom and scientific right, they may find themselves in a similar position outside the laboratories, too. The public - the people exposed to risks resulting from research - may decide to take science away from the scientists. If they do, the scientists will have nothing to blame except their own short-sighted attitudes. And institutions like MIT will wish they took the lead in considering political and ultimately human questions along with technical issues.

Mike Peters



"WELL AT LEAST CHILE CAN'T OVERTHROW OUR ELECTED OFFICIALS.....YOU GUYS WERE NEVER ELECTED,..."

## Letters to The Tech More Nuclear Debate

To the Editor:

I was deeply disturbed by Tom Bracewell's letter which appeared in *The Tech* on Dec. 9. Mr. Bracewell has tried to reduce the question of nuclear safety to a professional disagreement between scientists and humanists. It is unfortunate that he uses the words "scientist" and "humanist" as though they were mutually exclusive.

In his letter, Mr. Bracewell attacked another letter which appeared in *The Tech* on Dec. 2, and was signed by 17 faculty and staff members in the humanities and social sciences. Mr. Bracewell describes that letter as "overly emotional prose." Why "overly emotional" - because it discusses the problem of nuclear-power safety in terms of the quality of life, and not in terms of efficiency and cost?

Mr. Bracewell writes, "I believe that engineers should stick to engineering, and artists to creating art." Unfortunately for Mr. Bracewell, and fortunately for the rest of us, the distinction is not quite so simple. The interests and talents of many people are not that narrow. Also, professional ethics are more than institutionalized emotionalism. They are guidelines by which professionals must examine their motives and channel their abilities into constructive rather than destructive efforts.

MIT is not a factory for churning out technocrats, but an institution of learning. MIT has the responsibility of educating its students in the subjective as well as the exact disciplines, and MIT graduates should be able and willing to have a broader perspective on life than that which can be observed in a laboratory.

The consideration of "philosophical fine points of good and evil" should be more than a mental exercise for academicians. A scientist or engineer with no social conscience is a dangerous person, and academic bigotry between scientists and humanists is also dangerous. The disciplines are not separable in a society concerned with overall human welfare.

Julie Kozaczka '78  
Dec. 19, 1975

The Tech welcomes Letters to the Editor. Typed letters are preferred. Letters must be signed; names will be withheld upon request. Send letters to The Tech, W20-483.

To the Editor:

Over the past few weeks, I notice a very disturbing trend in *The Tech*. It seems as if, and unfortunately that includes *The Tech* that somewhere there people do not seem to have learnt how to dissent gracefully that the instincts of self-aggrandizement are so, so strong that they would be so intolerant of contrary views as to stoop to name-calling. It all began with Mr. Hampton's column on The Black Side, and we had heated exchanges about Black and White racism. Then followed an ad in *The Tech* which rightfully invited the scorn of a more discerning minority. And now we have the on-going exchanges on nuclear safety and Zionism. Mr. Bracewell's most recent letter on nuclear safety is what I have in mind.

It is indeed unfortunate that there still are some people around here who believe that "engineers should stick to engineering, and artists to create art." I had always thought that the whole idea of the Humanities Requirements here at MIT was to instill into this technologically charged atmosphere a degree of humanism, to make engineers here more than mere engineers, to help them realize that a technically feasible and provenly safe solution is *not* what society always wants or needs, that there are invariable other factors that determine social choices and that there can be occasions when these "other" factors are perhaps the overriding ones. Proliferating the world with nuclear reactors is definitely one such instance.

I was very disturbed particularly to read the following in Mr. Bracewell's letter. "What the authors have forgotten is that they are the ones (along with several more rational individuals) who first asked the important question, 'How safe are nuclear power plants?'" It is a pity that others had to ask this question. I am ashamed that we engineers did not ask this question ourselves in the first place.

A nuclear reactor, a steam turbine, a machine tool, are all creations of the engineer's art and one can appreciate his zeal at wanting to find them being accepted in the marketplace called society. But what one cannot appreciate is his frenzy in getting these products sold and the unabashed disgust he shows when they cannot be sold.

When I ask a technical question of an engineer, I would prefer to have the entire landscape painted for me so that I can draw my own conclusions rather than have some so-called "projection" which strips off most of the details.

In conclusion, I would like to add just this. Coming from a developing country, I had always bemoaned the fact that bureaucrats who did not know an iota of engineering should be in charge of the decision-making process and had always wished that technocrats took over. I now realize, and fortunately I am not very late, that I was wrong. I shudder to think of a world ruled by such technocrats as Mr. Bracewell.

V. Laxmanan G  
Dec. 10, 1975

# The Tech

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# Cries of 'Rape'

To the Editor:

In an article entitled "The week-long rape" appearing in your Dec. 9 issue, Michael McNamee asserts that the Faculty Rules and Regulations governing final examinations and student work loads in the last week of classes are being extensively and flagrantly violated. These charges are of concern to the Committee on Academic Performance which, by customary usage, has become the faculty agency dealing with undergraduate student complaints of this nature. In all such instances called to its attention, the Committee has in fact acted promptly to resolve the issues, but not always effectively because it is often then too late to achieve other than a compromise solu-

tion not wholly satisfactory to either faculty or students.

The purposes of this letter are (i) to tell your readers what the rules are and (ii) to indicate that the CAP is prepared to investigate the circumstances underlying any apparent departures therefrom. Information as to deviant practices this term may well provide motivation for departmental efforts to eliminate such problems in subsequent terms. The CAP office is in Room 10-191 and the telephone extension is 3-4164.

The rule in question appears as follows on page 12 of the September 1975 revision of "Rules and Regulations of the Faculty." (See excerpt below).

Thomas M. Hill  
Chairman, CAP

*Final examinations shall be held during the final examination period following each term. For each subject in which a final examination is given during the prescribed period, no class exercises shall be held during the period beginning two days, Saturdays and Sundays excepted, before the examination period and ending at the examination period. Any single examination shall be limited to not over three hours.*

*The Dean for Student Affairs in the case of an undergraduate student, or the Dean of the Graduate School in the case of a graduate student, may excuse a student from a scheduled final examination for reasons of illness*

*or significant personal problems.*

*For each subject in which a final examination is given during the prescribed period, no written examinations shall be given during the seven days preceding the examination period. For each subject in which no final examination is given during the prescribed period, no more than one written examination of not more than one hour (one class period in the case of laboratory or design subjects) shall be given during the seven days preceding the examination period.*

*No assignment, term paper, or oral presentation for any subject shall fall due after the last day of class exercises for that subject.*



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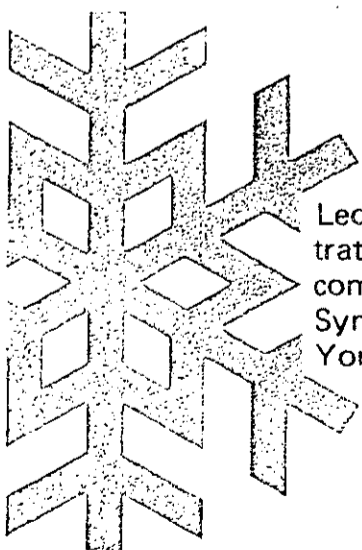
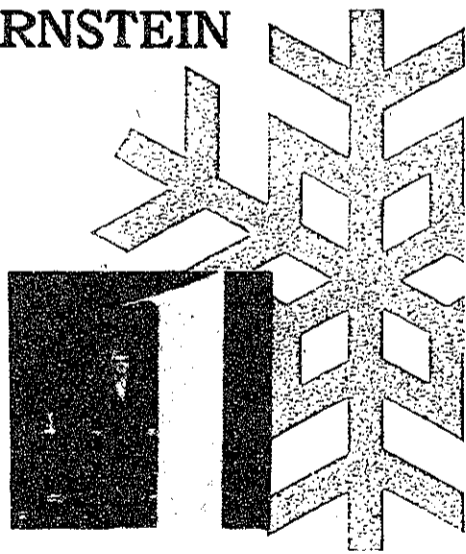
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# US programs: growing burden

(Continued from page 1)

"Something like Title 9 takes hundreds of hours to respond to and to plan for the necessary changes, — administrative time, time for the legal experts here, and staff time," Wynne said. "One new employment-security bill has forced us to have a full-time employee doing nothing but writing descriptions of our pension plans. That's the kind of thing that begins to weigh on and burden you administratively."

"These federal programs are important steps in advancing toward highly valued social and environmental goals," the ACE report says, "but they also involve costs that are not explicitly recognized or provided for by any of the sources of financial support for institutions."

Only six institutions were studied by the ACE team, and differences between schools can result in great disparities in costs. The study team stated three hypotheses, however, which would tend to increase rather than decrease such costs for an institution like MIT:

— Large, prestigious institutions are more visible than others, and feel correspondingly greater pressures for early and full compliance with federal rules, they said.

— Institutions that take the

lead in carrying out federal regulations — as MIT has done in many technical areas — "are likely to incur development costs of innovations" which will not apply to colleges complying later.

— Private institutions generally bear a heavier burden when a program is implemented than state institutions which can fall back upon special appropriations from their legislatures or the services of state agencies or attorneys general to meet large one-time, administrative, capital and legal costs.

In addition, MIT's huge research load makes it subject to another set of federal rules and regulations governing research facilities and safety standards to protect research workers. Those regulations impose both a one-time cost for facility improvements and a continuing cost for maintenance and staffing — an increase in overhead which effectively cuts the money available for researchers' salaries and materials.

What are colleges and universities doing about the flood of federal programs and their attendant costs? Many institutions are revamping their administration to provide easier response to federal requests for data and comments on regulations. Wynne said that five

schools at a recent Ivy League-MIT-Stanford meeting reported establishing a "general counsel's office" to deal with such matters within the last year — a move MIT does not plan to follow, he said. Others are increasing their lobbying efforts to gain greater influence over programs before they are issued.

The ACE report recommended that colleges take a broader look at government activity... and work to alert federal officials about unexpected impacts of their programs" — spin-off results like the impact of business-oriented reforms when they are applied to non-businesslike colleges and universities.

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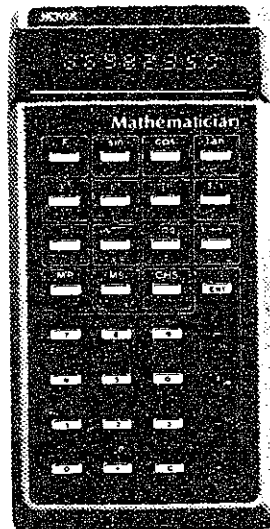
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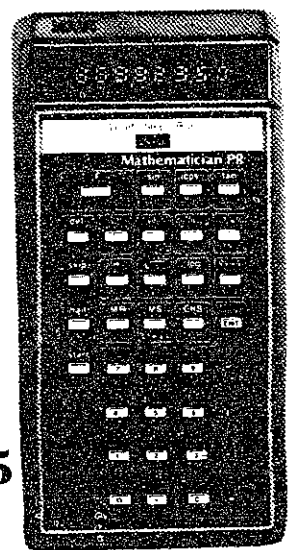
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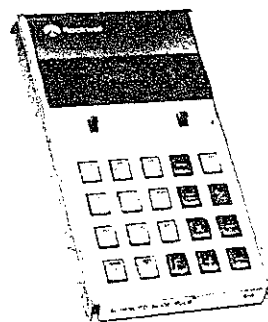
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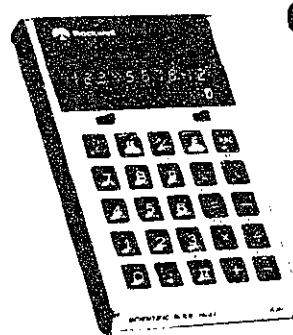
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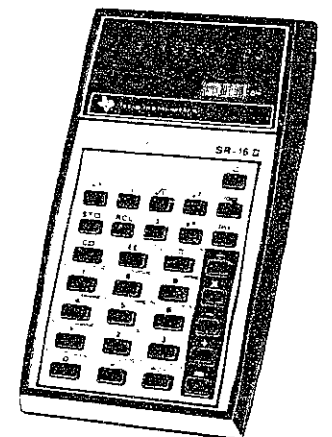
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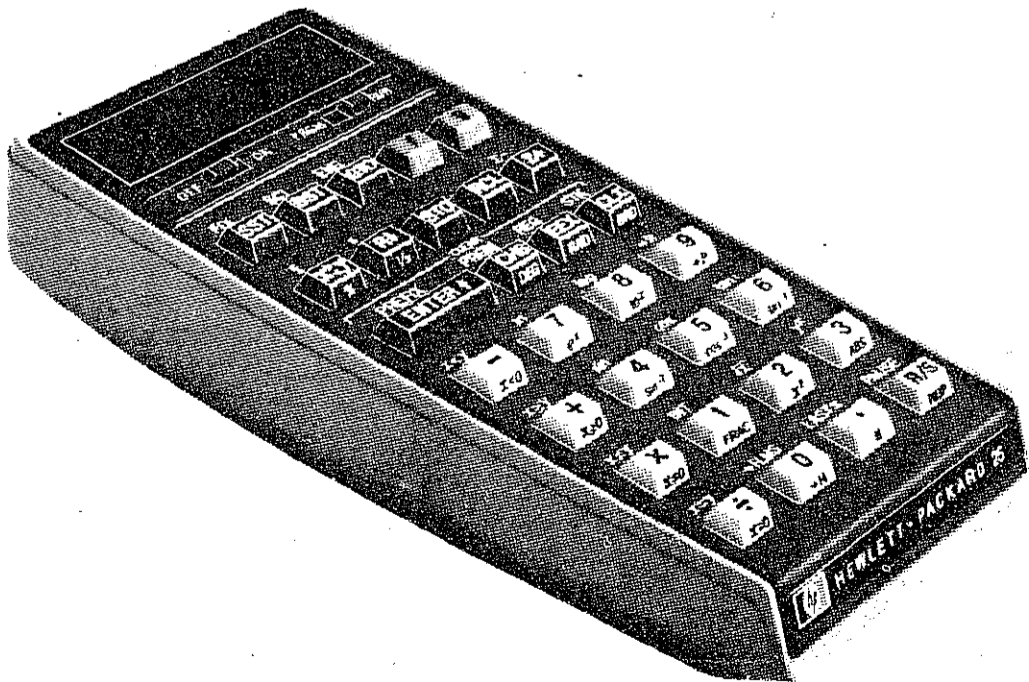
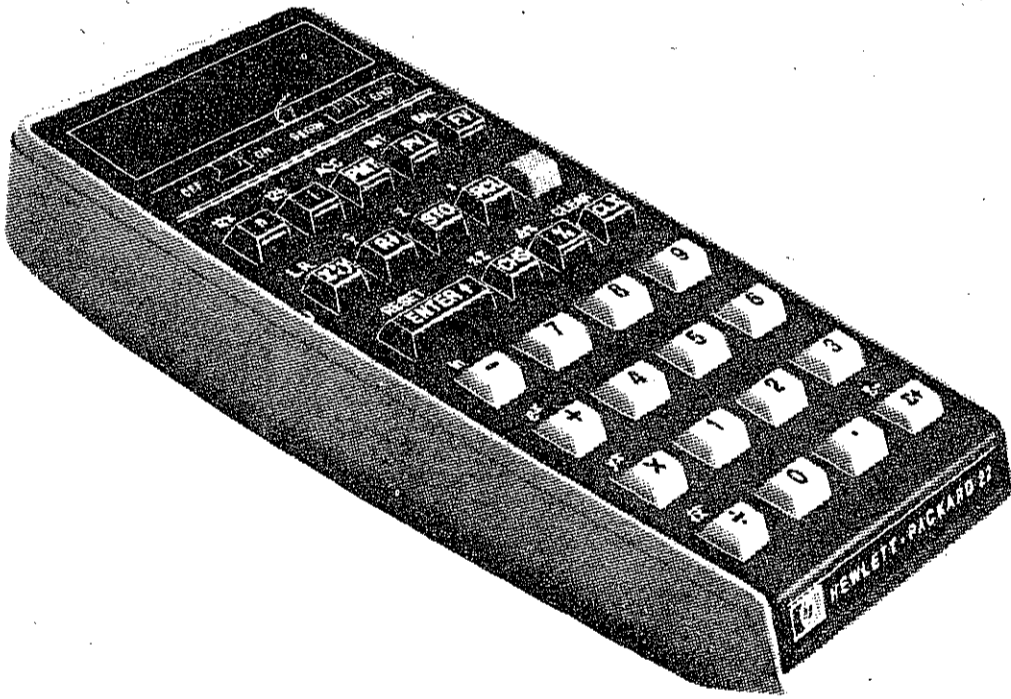
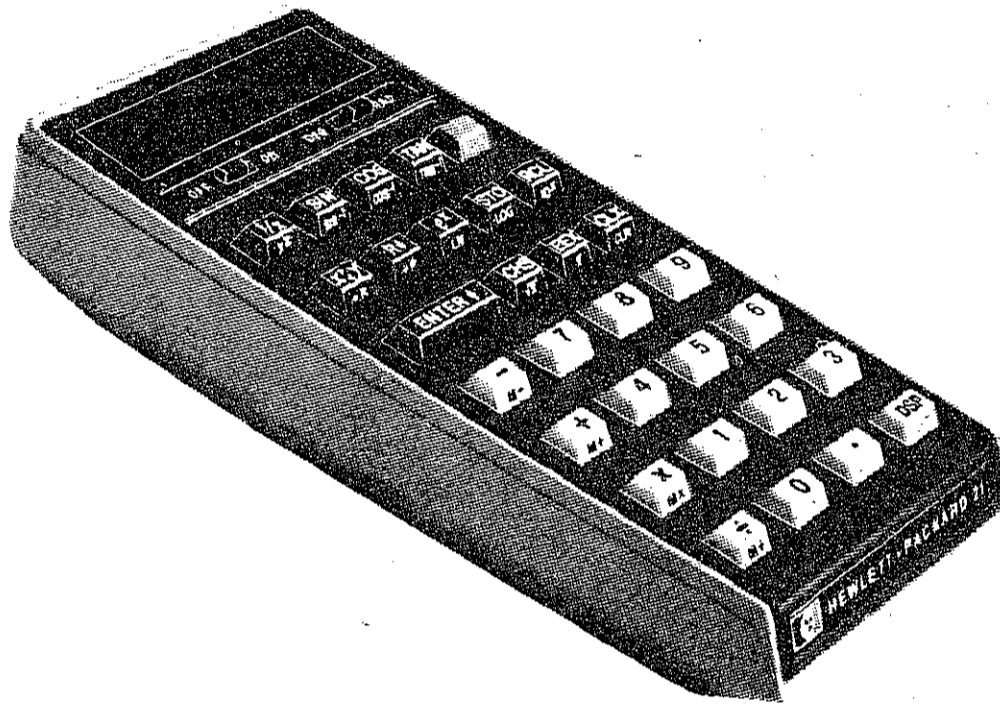
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# Biohazard group under study

(Continued from page 1)

agents in use on campus, where and under what conditions they are being stored, and what research they are being used in.

- Collecting up-to-date information on biohazardous agents and keeping researchers informed of the latest methods for their proper use and control.

- Keeping track of research projects on campus which involve biohazardous agents and reviewing the methods and facilities proposed for proper use and control of the agents.

- Giving advice on and objective assessment of practices and methods to reduce the risks inherent in use of biohazardous agents.

The committee would require at least one professional staff member, Fox said, to maintain its information and monitor research to see if standards are being met. This staff support would be particularly important

if federal standards for biohazard control are set, Fox said.

The committee would probably not wish to engage itself in political problems like the DNA moratorium, Fox said, adding that he was reluctant "to get dragged into questions like that. I really don't know how to answer them."

While national concern over biohazards has risen, concern over lab safety at MIT has skyrocketed. A "mini-revolt" of lab technicians and assistants last spring was followed by formation of a Workers' Health and Safety Committee in the Cancer Center and Biology Department - a development many people feel was instrumental in bringing on the formation of the biohazards group.

"The workers' committee draws its authority from the people who are taking the risks - the technicians and assistants who handle these agents." Asso-

ciate Professor Jonathon King, safety officer for Biology and unofficial head of the workers' group, said. "We're working on raising workers' consciousness about the hazards they face and in forcing the departments to take more care with their workers' health."

"If the official committee does a good job," King said, "there will be no problem. If they don't, then there will be another group watching over them, keeping an eye out for the workers."

Fox said that he did not feel that the formation of the workers' committee was "a provocative element" in formation of the Committee on Biohazards. "That group is a very good thing, but it's not the same thing as the faculty group," he said. "The relations between the two committees are going to have to work themselves out over time."

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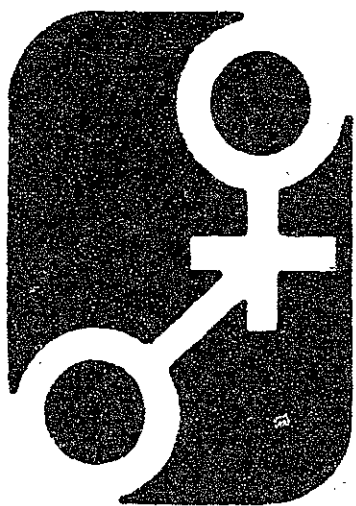
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# Insurance costs steady, unaffected by Tang fire

(Continued from page 1)  
 ance companies, which have a reputation for engineering expertise. The insurance companies have "one person here full time for at least a couple of months" when they inspect the Institute, Valentine said.

In addition to paying premiums, the Institute must also pay for all accidents incurring damage below \$5000 — the "deductible" for the policy. Valentine said that the minimum damage that could be claimed was \$250 only three or four years ago, but with the anti-war "time of troubles" here and at other schools, the insurance

companies raised the Institute's deductible to \$5000. Despite the increase, the figure is relatively small — Valentine said that every policy-holder was under pressure for higher deductibles, and that "quite a few" schools had their deductibles forced up to \$50-100,000.

The Tang Hall fire will be above the Institute's deductible; despite its relatively small dollar cost, it was the Institute's most expensive fire in five years. The largest single fire loss in Valentine's memory was much smaller in physical terms: a professor's desk computer valued at \$90,000 burned out.

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# Fiddler on the Roof

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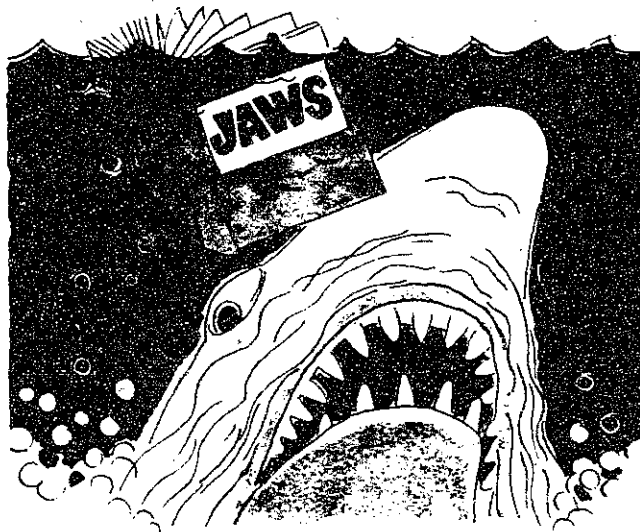
Music by JERRY BOCK

Book by JOSEPH STEIN  
 Lyrics by SHELDON HARNICK

## AUDITIONS

Feb. 7, 8 and 9

For further information call 253-6294



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Class will begin  
 MONDAY, JANUARY 5, 1976  
 at 7:00pm

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You can do it, too. So far over 550,000 other people have done it. People who have different jobs, different IQs, different interests, different educations have completed the course. Our graduates are people from all walks of life. These people have all taken a course developed by Evelyn Wood, a prominent educator. Practically all of them at least tripled their reading speed with equal or better comprehension. Most have increased it even more.

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# holiday season food service schedule

|   |   |  |
|---|---|--|
| Friday, Dec. 19                             | Lobdell — Breakfast<br>Lunch<br>Dinner<br>Twenty Chimneys | 7:30am to 10:00am<br>11:00am to 2:00pm<br>5:00pm to 7:00pm<br>Closed |
| Saturday, Dec. 20                           | Twenty Chimneys<br>Lobdell                                | 8:00am to 7:00pm<br>Closed   |
| Sunday, Dec. 21                             | Twenty Chimneys<br>Lobdell                                | 9:00am to 7:00pm<br>Closed   |
| Monday & Tuesday<br>Dec. 22-23              | Lobdell — Breakfast<br>Lunch<br>Dinner<br>Twenty Chimneys | 7:30am to 10:00am<br>11:00am to 2:00pm<br>5:00pm to 7:00pm<br>Closed |
| Wednesday, Dec. 24                          | Twenty Chimneys<br>Lobdell                                | 8:00am to 2:00pm<br>Closed   |
| Thursday, Dec. 25                           | Lobdell & Twenty Chimneys                                 | Closed   |
| Friday & Saturday<br>Dec. 26-27             | Twenty Chimneys<br>Lobdell                                | 8:00am to 7:00pm<br>Closed   |
| Sunday, Dec. 28                             | Twenty Chimneys<br>Lobdell                                | 9:00am to 7:00pm<br>Closed   |
| Monday, Tuesday, Wednesday<br>Dec. 29-30-31 | Lobdell — Breakfast<br>Lunch<br>Dinner<br>Twenty Chimneys | 7:30am to 10:00am<br>11:00am to 2:00pm<br>5:00pm to 7:00pm<br>Closed |
| Thursday, Jan. 1                            | Lobdell & Twenty Chimneys                                 | Closed   |
| Friday & Saturday<br>Jan. 2-3               | Twenty Chimneys<br>Lobdell                                | 8:00am to 7:00pm<br>Closed   |
| Sunday, Jan. 4                              | Twenty Chimneys<br>Lobdell                                | 9:00am to 7:00pm<br>Closed   |
| Monday, Jan. 5                              | (Lobdell and Twenty Chimneys resume regular schedule.)    |  |

Walker Food Service will be closed from 6:30pm Thursday, Dec. 18 to Breakfast Jan. 5, 1976.

MacGregor and Baker Dining will be closed from 6:00pm Thursday to Breakfast Jan. 5, 1976.

Last day for all Board Plans is Thursday, December 18, 1975.

15 Meal, 19 Meal and Point Plan for IAP and Spring Term are available in all dining units.

# Police Blotter

(The Police Blotter is a report written by the Campus Patrol on crimes, incidents and actions on the MIT campus each week.)

A woman who left her purse in the drawer of a desk in the Hayden Library suffered the loss of her wallet, ID's, various cards, and cash when an unknown person stole the wallet from its resting place.

### Athletic Locker Room Larcenies

Another woman lost her cash and a personal check which she'd left in a handbag on a bench in the DuPont Women's Locker Room while participating in a physical education class.

An Accutron watch valued at \$185 was stolen from an unlocked locker in the Alumni Pool on Wednesday.

Note: Incidents like the above two are common. Anyone, men and women, using the Athletic facilities should bear in mind that valuables may be left checked, in sealed envelopes, in the care of the Desk Attendants. Please take advantage of this service whenever possible.

### Valuables Stolen

The Architecture area of Building 7 was the scene of the larceny of a 35mm camera valued at some \$200 last Monday afternoon. The owner left it unattended and realized it was missing after a search some hours later.

A Lincoln Continental which had been reported stolen on Monday at 6am was recovered by MIT Officers an hour later in the Albany Street Garage.

A resident of Nichols Dorm surprised an intruder standing in the corridor just outside his room last Saturday morning. The suspect fled successfully, taking with him the student's \$80 Texas Instruments SR-50 Calculator.

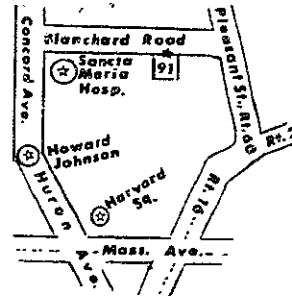
Four people were the victims of wallet thieves Saturday night during the course of a party held in the Lobdell Dining Room. Little or no door control was

practiced during the latter part of the affair. The victims had left their wallets in bags and coats which were left piled on chairs.

### Community Notice

Students who plan to be away for the upcoming Holiday and IAP periods who lack adequate storage facilities for safeguarding valuable personal property (except bicycles) may leave such items at the Campus Patrol Headquarters (W31-215) for safekeeping. Goods should be boxed or packaged wherever possible. Deposit and pickup period is 9am to 5pm Monday through Friday.

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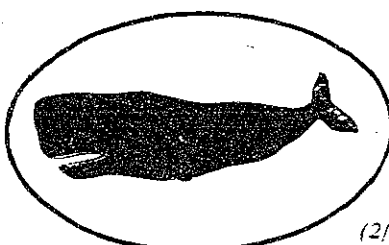
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|---------------------------|--------|
| Expert skate sharpening   | \$1.00 |
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## improve your reading speed and comprehension

Look for this entry in the IAP Guide

Reading: Development of Comprehension and Speed

Dr. John Sloanaker  
Person to contact with questions:  
Dean Robert Weatherall  
x3-4733 10-140

The course emphasizes strategies of reading that promote concentration, comprehension, retention of learning, and continuing improvement. Student gains in the mastery of difficult expository materials average between 100% and 200%, the range being all the way from nonmeasurable gains to multiples of 10 or more over original speeds. The cost to students is \$45, including all materials. The course will meet each weekday evening, January 6-9 (except January 15), from 5-6 in 54-100. Please register and pay in 10-140 by December 19; the fee is refundable through the 3rd class day.

**Register at the Career Planning and Placement Office, 10-140, before December 19. Late registration will be permitted as space permits.**

## THE ARMY ROTC TWO-YEAR PROGRAM

invites upperclassmen  
and graduate students  
to share in the challenge  
of leadership as an  
Army Officer

Applications are now being accepted for the Army ROTC Two-Year Program from upperclassmen and graduate students with at least two academic years remaining. Students accepting this option will attend the Army ROTC Basic Camp, at Fort Knox, Kentucky, for six weeks this summer, then enroll as an Army ROTC third-year cadet at MIT in the fall. Completion of the program leads to a commission as a Second Lieutenant in the Regular Army, or Army Reserve, upon graduation. Once on active duty as an officer, you'll have responsibilities in many technical areas, as will your civilian contemporaries, but unlike them, you'll be responsible for providing mature, intelligent, and imaginative leadership to the Army's most precious resource: its people. For information, contact Captain Richard Murphy at 253-4471.

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## Roundup

**'Up' week for winter teams**

By Glenn Brownstein

MIT's women's volleyball team won the state title this fall, but the men's club volleyball team (7-1) is also faring very well, having lost only to Harvard in a three-game match this season.

The Engineers topped Brown, Boston College, Northeastern, Bridgewater, URI, and Wentworth last week, dropping only one of 13 games. MIT is led by hitters Frieder Krups '77, Dave Mabry '77, Mike Tarsi '79, Rick Carley '76, and Bob Powell '76, and setters Bob Enders '76 and Dave Leighton '76.

Semifinalists in the New England last year, MIT appears to be on its way to another excellent season. The team faces Rhode Island College in duPont today at 3pm.

Men's fencing (2-1) posted two wins this weekend, edging Brooklyn College 14-13 and routing Colgate 20-7. Rich Reimer '77 and Mark Smith '78 won all three foil bouts against Brooklyn, and Arlie Sterling '77 led the epee team, which contributed six points to gain the win for the Engineers.

Although evenly splitting sixteen bouts with Rhode Island College, women's fencing (0-1) lost a heartbreaker as RIC scored 60 touches to MIT's 59 to win the meet. The loss of two varsity fencers should hamper the team somewhat, but with the two replacements fencing well, prospects are good for an improved season. Top Engineer foilswomen include Judy Austin '77 and Kate McLeod '77.

Two straight 9-0 losses did not faze the squash (2-3) team, as

after being blanked by Navy last Thursday, the Engineers took second in the Wesleyan Round Robin Tournament.

MIT's only tournament loss was to tournament winner Stony Brook, which defeated the racquetmen 6-3 in a match with four individual matches going five games. The Engineers then overwhelmed Wesleyan 8-1 and Rochester 7-2 to finish as runners-up.

Neal Rockowitz '78, playing number nine, won three matches this weekend, not dropping a single game, while Frank Fuller '77, at number three, swept his matches as well.

Wesleyan captured the last event of the meet, the 4x100 yard freestyle relay, to nose out the men's swimming (0-2) team, 61-52, Saturday afternoon at Wesleyan.

Divers Rick Ehrlich '77 and Paul Snyder '78 placed one-two in their event to lead MIT's effort. Engineer swimmers gained two other firsts in the meet.

Although Coach John Benedick has characterized 1976 as a "building year," the return of many talented sophomores coupled with many promising freshmen could point to a successful year for MIT.

The women's basketball team (2-1) scored a win over Gordon Thursday night, but lost its first game of the year to Worcester Poly Monday, 35-28. The JV squad also lost, 25-24, on a last-second shot.

The team this year has won on superior height and a hustling full-court press. Although the squad is not fundamentally as

good as its opponents, the press, height, and ability to substitute freely has compensated for much of the difficulty, according to first-year coach Ross Hunter. Foul trouble and injuries forced MIT to abandon its press Monday night, and probably led to its defeat.

A 29-point effort by Peter Jackson '76 and another 25 by tri-captain Cam Lange '76 were not enough to defeat Bates Tuesday night, as men's basketball (0-4) dropped an 80-73 decision to the Bobcats. Bates' Peter Goodwin drove through MIT's defense again and again, pouring in 26 points and killing a late rally by the Engineers.

Despite predictions of an "off" year, MIT's pistol team (3-0) topped Villanova 3173-2993 for its third straight match win Saturday. Two-time All-American Steve Goldstein '76 fired 819 out of a possible 900 to lead the Engineers, while Phil Brucat '77 shot 800 for second place.

The squad travels to Kings Point tomorrow morning.

On deck: Most MIT athletic teams have completed their pre-Christmas seasons, but rifle and track have meets this weekend. The riflemen shoot against Norwich and West Point tomorrow morning at MIT, while the Engineer trackmen stage their annual alumni meet tonight in Rockwell Cage.

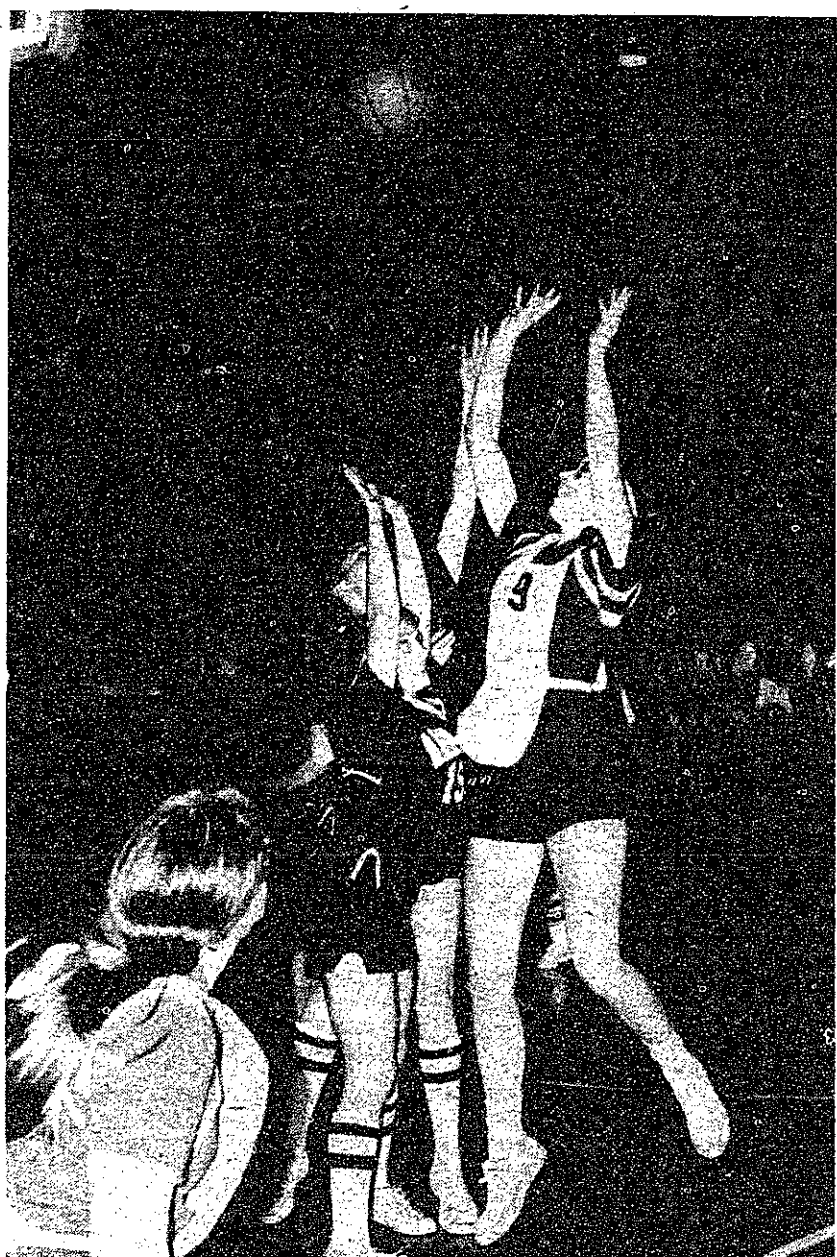
The alumni team, which defeated the varsity 60-53 last year, will feature pole vault record holder Dave Wilson '73, discus and indoor shot record holder Brian Moore '73, and 100, 220, and indoor 50 yard record setter Jim Flink '64. Field events begin at 5:30pm, with running events commencing at 7:00.

Chris Vogdes '78 (24) and Debbie McKechnie '79 (9) put up jumpers against Worcester Poly in the JV basketball team's heartbreaking 25-24 loss Monday night. A 20-foot shot at the buzzer took away what appeared to be a hard-fought victory over a talented WPI team. The varsity also had its problems, as injuries and fouls contributed to a 35-28 loss.

## Sports



Dave Schaller



Dave Schaller

**W gymnasts beat Penn, winning first meet ever**

By Eileen Shaffer

(Eileen Shaffer '77 is manager of the women's gymnastics team.)

This Sunday the MIT women's gymnastics team began its season by defeating the University of Pennsylvania by a score of 51.1-44.8. The win was MIT's first ever in dual meet competition.

The meet's leading scorer was MIT freshman Elaine Sears, who contributed 21.2 points as the only all-around competitor. Helen Miyasaki '78 scored 9.65 points for MIT, followed by captain Sue Hanson '78 with 8.1.

On the uneven parallel bars Sears was the victor, followed by MIT's Joan Hughson '77, Karen Chang '79, Lisa Bendixen '79, and Eileen Schaffer '77. In vaulting, Sears again was the event winner followed by a Penn second place gymnast, Miyasaki, and Hanson.

Miyasaki placed second on the balance beam (Penn won the event) with third going to freshman Helen Chihoski who, due to a pre-season injury, could only compete on the beam. Sears took third and was followed by Mary Beth Ward '79 and Hughson.

Free exercise went to Penn's squad, with MIT only able to manage third on Sears' performance.

The gymnasts' next meet will be against Yale on January 24.

**UNH, Jackson down swim club**

By Wendy Irving

(Wendy Irving '76 is captain of the women's swimming team.)

The MIT women swimmers were defeated Tuesday night by both the University of New Hampshire and Jackson College. UNH captured first places in all but three events to finish with a total score of 102, Jackson and MIT followed with 67 and 42 points respectively.

MIT's two event wins were sophomore Peggy Page's narrow (.18 second) victory in the

50-yard butterfly and freshman Lori Lamel's first in the one-meter diving. In the remainder of the events the MIT women could manage little better than fourth or fifth while UNH and Jackson scored heavily.

The women travel to Boston University tomorrow afternoon.

## Summary of events:

200 Yard Medley Relay: 1-UNH (Finigan, Boch, Lankenau, Mather); 2-Jackson; 3-MIT; 2:05.75

200 Yard Freestyle: 1-Schultz (UNH); 2-Billingsley (J); 3-Centorino (UNH); 2:04.80  
 100 Yard Individual Medley: 1-Boch (UNH); 2-Mather (UNH); 3-Brooks (J); 1:06.65  
 50 Yard Backstroke: 1-Finigan (UNH); 2-Canavan (J); 3-Hatch (UNH); 32.66  
 50 Yard Breaststroke: 1-Schulte (UNH); 2-Strauss (J); 3-Marcus (MIT); 36.03  
 50 Yard Butterfly: 1-Page (MIT); 2-Dickenson (J); 3-Lankenau (UNH); 31.74  
 1 Meter Diving: 1-Lamel (MIT); 2-Cropanese (UNH); 141.20  
 Butterfly: 1-Boch (UNH); 2-Strauss (J); 3-Dickenson (UNH); 1:05.42  
 100 Yard Backstroke: 1-Hatch (UNH); 2-Canavan (J); 3-Salyard (MIT); 1:12.95  
 400 Yard Freestyle: 1-Schulte (UNH); 2-Billingsley (J); 3-Yulke (MIT); 4:28.20  
 100 Yard Breaststroke: 1-Strauss (J); 2-Marcus (MIT); 3-Kangas (MIT); 1:21.10  
 3 Meter Diving: 1-Cropanese (UNH); 2-Lamel (MIT); 161.05  
 200 Yard Freestyle Relay: 1-UNH; 2-Jackson; 3-MIT; 1:49.93

**Men's gymnastics has 1-2 week**

By John Curcio

The MIT men's varsity gymnastics team opened its season last Friday night against Boston State and Lowell Tech. Although hindered by the loss of "all-around" (working all six events) performer David Lu '77 due to an ankle injury, MIT remained competitive, scoring 133 points to Lowell's 148 and Boston State's 162.

Strong performances by William Wehl '79, Jim Chung '77,

and freshmen John Felleman and Bojan Petek paced the Engineer overall effort, while seniors John Smith, Wes Taylor, and captain Jon Johnson contributed high scores in the side horse and rings. However, the Engineers sorely missed top scorer Lu in the other four events.

MIT won its second meet Sunday against the University of Pennsylvania by a substantial margin, 113.5-80.85 (in this meet, only the top three scorers

for each team in an event were counted). Again MIT's side horse team had no major routine breaks, as Felleman scored 7.5 and Taylor 7.45 (out of a possible ten). Johnson's 8.5 led the Engineer ring men, with Felleman and Smith also scoring well.

Coach Robert Lilly, pleased with the competitive attitude of this year's freshmen and the strength of his veterans, foresees a strong team effort for the rest of the year.

**Sporting Notices**

Interested in an Intermediate/Advanced Rock Climbing physical education class or equivalent? If the answer to both questions is "Yes", call Rob Milne at 247-8691 before Thursday, Dec. 18.

The class will meet twice a week for three-hour sessions during the first three weeks of March and will be worth two PE credits. A pair of stiff boots is required for climbing.

This class will only be held if interest demands, so please call if you'd like to take part.

Entry cards for IAP Basketball are due in the IM Office (W32-123) by 5pm Tuesday. Indicate league and night preference on the entries. There will be an entry fee of \$12.00 to cover officiating costs that will be payable later.