

Professor Franklin dies



Dr. Philip Franklin

Dr. Philip Franklin, retired professor of mathematics and former Secretary of the Faculty died January 27 at the Massachusetts General Hospital.

Professor Franklin, who had been hospitalized since January 8, was recovering from surgery at the hospital when he died unexpectedly. He was 66.

Professor Franklin officially retired in June, 1964, after teaching mathematics at MIT for 40 years. He had continued to conduct classes on a part time basis since then.

As Secretary of the Faculty for the five years before his retirement, Professor Franklin served as chairman of the Institute's Committee on Academic Performance. His colleagues on the committee presented him with an engraved silver bowl describing him as an "anonymous friend of students over many years." At that time, President Stratton paid tribute to him as a teacher "who has devoted himself with special distinction to the welfare of students and to the process of teaching."

Professor Franklin received the bachelor of science degree from

the City College of New York in 1918. In 1943, CCNY awarded him its Townsend Harris Medal for the alumnus who achieved notable postgraduate distinction. He received the master of arts degree in 1920 and the doctor of philosophy degree in 1921 from Princeton University.

After teaching for one year at Princeton and two years at Harvard, Dr. Franklin joined the MIT Department of Mathematics in 1924. He was made assistant professor in 1925, associate professor in 1930 and full professor in 1937.

Professor Franklin was managing editor of the MIT 'Journal of Mathematics and Physics' from 1929 to 1945 and an editor since then. He was the author of some 60 research papers in the fields of geometry, topology and analysis and the author of seven books, including 'Methods of Advanced Calculus' (1944) and 'Compact Calculus' (1963). Three of his books were used as texts for MIT courses.

A memorial service was held Sunday, January 31, at the MIT Chapel in honor of Professor Franklin.

Activities Council called to discuss Jan. VooDoo

A specially called session of the Activities Council met in the Blue Room of Walker on the Thursday evening of reading period to consider problems caused by the publication of the January issue of VooDoo.

After approximately two and one-half hours of debate and discussion, a motion proposed by Rusty Epps '66, chairman, passed without dissension.

The VooDoo staff was required to prepare a statement of philosophy and a plan that would enable the staff to avoid publication of material that might provoke a response similar to that caused by the "Gayboy" issue. The statement will be presented by the VooDoo staff at a regular meeting of the Council tomorrow night.

It was announced that all available copies of the issue were withdrawn from newstands in Harvard Square and at Northeastern University on the Tuesday following publication day, at

the request of several student government officials. However, only about 50 of the 500 issues distributed off-campus were recovered.

Mark Radwin '64 and Mike Levine '65 represented the VooDoo staff at the session.

Bill Samuels '65, Undergraduate Association President, reported that he had received several complaining reports and phone calls from students, faculty and staff regarding the issue. Others present indicated hearing similar complaints from readers both internal and external to MIT.

A number of other proposals were discussed, including formal review of VooDoo by faculty or nonboard students and suspension.

Activities Board to get nominations for annual William Stewart Awards

Nominations of candidates for William L. Stewart, Jr., Awards will begin on Monday, February 15. Eligible for the annual awards are students who have made outstanding contributions to extracurricular activities.

Nomination may be made by all members of the MIT community. Nomination forms will be distributed to living groups and are available also in Room 50-110, where they must be filed by Monday, March 15.

Stewart Awards, which were created and are maintained by the student-faculty Activities Development Board, were presented for the first time last spring at the annual Awards Convocation. They are given in memory of Mr. W. L. Stewart, Jr., a member of the Class of 1923 and a member of the MIT Corporation from 1952 until his death in 1963.

The award recognized contribution by (1) a member of an activity, (2) the head of an activity, or (3) by the entire organization. Any recipient nominated must be among the 77 member organizations of the Association of Student Activities. Those groups are listed on the nomination forms.

Selection of award recipients will be made by members of the faculty and administration chosen by the Activities Development Board.

Members of the ADB are Professor Frederick J. McGarry, faculty chairman, Prof. Kenneth R. Wadleigh, dean of student affairs, Prof. Robley D. Evans, Prof. Merton C. Flemings, Edward L. McCormack, Charles Epps, '66, student chairman, William C. Samuels '65, and James W. Taylor '65.

Prof. Hyatt to give aeronautics lecture in Kresge tonight

The ninth annual Minta Martin Lecture on aeronautics will be held at MIT Wednesday, February 10, in Kresge Auditorium at 8 p.m.

The lecturer, Abraham Hyatt, who is the former director of plans and program evaluation for NASA in Washington, D.C., is the 1964-65 Jerome Clarke Hunsaker Visiting Professor of Aeronautical Engineering at MIT. Sponsored by the MIT Department of Aeronautics and Astronautics and the Boston Section of the American Institute of Aeronautics and Astronautics, the lecture is presented annually by the Hunsaker visiting professor. The topic of this lecture will be some phases of the future of America's space exploration programs.

Professor Hyatt was an aeronautical engineer in industry during the 1930's and was the Navy Bureau of Aeronautics chief scientist before he left to join NASA.

Samuels to confer with UAP candidates

Bill Samuels, Undergraduate Association President, would like to meet with all candidates for UAP for the coming elections Monday, February 15, at 4:00 p.m. in Litchfield Lounge.

Campaign rules and procedure will be discussed, and Samuels will outline the duties and responsibilities of the UAP.

This year's elections will be held Tuesday, March 2.

Peace Corps team to explain program

A Peace Corps team from Washington, D.C. will be visiting MIT on February 7-13.

This team, which will include returned volunteers, will be available to explain the purpose, programs and future plans of the Peace Corps and to accept applications from interested juniors, seniors and graduate students.

An Information Center will be set up by the representatives, who will be working in conjunction with Alpha Phi Omega, and will be located in the Placement Center.

Members of the team will be happy to speak and answer questions at clubs or living groups within the MIT community, and anyone wishing to make arrangements to this effect may get in touch with Thomas W. Harrington, Jr. in the Student Placement Office (E19-455).

Non-competitive aptitude tests will be given several times daily to applicants, and optional language achievement tests in Spanish and French will also be administered.

Before the above tests may be taken, a Peace Corps questionnaire must be completed and submitted to one of the members of the Peace Corps team. These forms are available at most Post Offices and may also be obtained from Mr. Harrington.

Training programs for the Corps, which now includes nearly 10,000 volunteers both overseas and in training, begin in almost every month of the year, and those who apply during the team's visit to MIT will be informed of their status within two months.

Deadline Feb. 13

A reminder to all candidates for class presidencies and for Undergraduate Association President:— your campaign statements for publication must be at The Tech office by Saturday, February 13.

Statements of 400 words for UAP candidates and 100 words for class presidency candidates will be printed in the February 17 issue of The Tech.



Vol. 85, No. 1 Cambridge, Massachusetts, Wednesday, February 10, 1965 Five Cents

Gives over \$36,000

Du Pont donates teaching and research grants

By Sue Downes

MIT received a grant of over \$36,000 as a part of the Du Pont Company's annual program of aid to education and basic research.

167 universities and colleges received Du Pont grants which totaled 1,800,000 dollars. Awards to MIT were: Postgraduate teaching assistant award in chemistry, \$1,700; grant in aid of fundamen-

tal research in chemistry, \$15,000; aid for fundamental research in physics, \$5000; aid for fundamental engineering research in chemical engineering, \$5,000; aid for fundamental engineering research in mechanical engineering, \$5,000; and a grant for advancing undergraduate teaching in science and engineering, \$5,000.

In addition to aiding fundamental research, these grants help to serve the purpose of increasing the status of teaching. They will balance the increased emphasis given to research by encouraging the teaching of undergraduate science and engineering.

DuPont's postgraduate teaching assistant awards provide fellowship-type aid to regularly employed part-time teaching assistants. Their purpose is to encourage outstanding graduate student teaching assistants to continue their work, thus giving the undergraduate students the benefit of their greater experience. These awards also encourage graduate students to go into teaching as a career.

The DuPont Company has been aiding programs for teaching with grants for the past ten years. It is hoped that the teaching of undergraduates will benefit not only the science and engineering students, but also give the liberal art students an understanding of science which has become essential in our technological age.

Tech debate team places second in Harvard forensic tournament

The MIT Debate Society ended a successful first term as a Tech team of Madis Sulg '65 and Eric Johnson '67 qualified first, ahead of nearly 100 teams from 74 colleges and universities, for the elimination rounds of the Harvard Debate Tournament held last weekend.

In the preliminary rounds Sulg and Johnson scored the highest total of speaking points while winning seven of eight debates. In the elimination rounds they were defeated by Northeastern in the final debate. They had previously beaten Northeastern in a preliminary round. Sulg also ranked first in the extemporaneous speaking contest.

A second MIT team of Jim Foster '67 and Roger Kirst '67 won five of eight debates at the Harvard Tournament.

The MIT debate team is coached by Richard Kirshberg, a third year student at the Harvard Law School. Mr. Kirshberg is a former Northwestern debater and was national champion in 1957 and 1958.

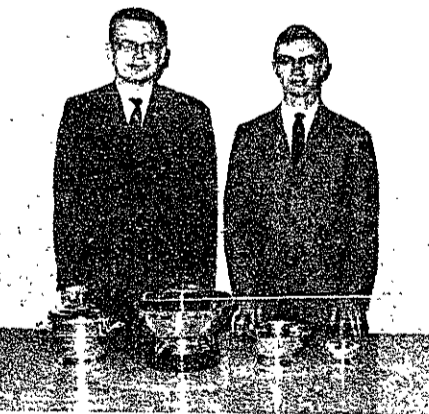


Photo by John Torode
Madis Sulg '65 and Eric Johnson '67 pose with trophies they collected at the Harvard Debate Tournament last week. Representing MIT they placed second in team competition, fourth and second respectively in individual debate speaking.

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Grade reports show up

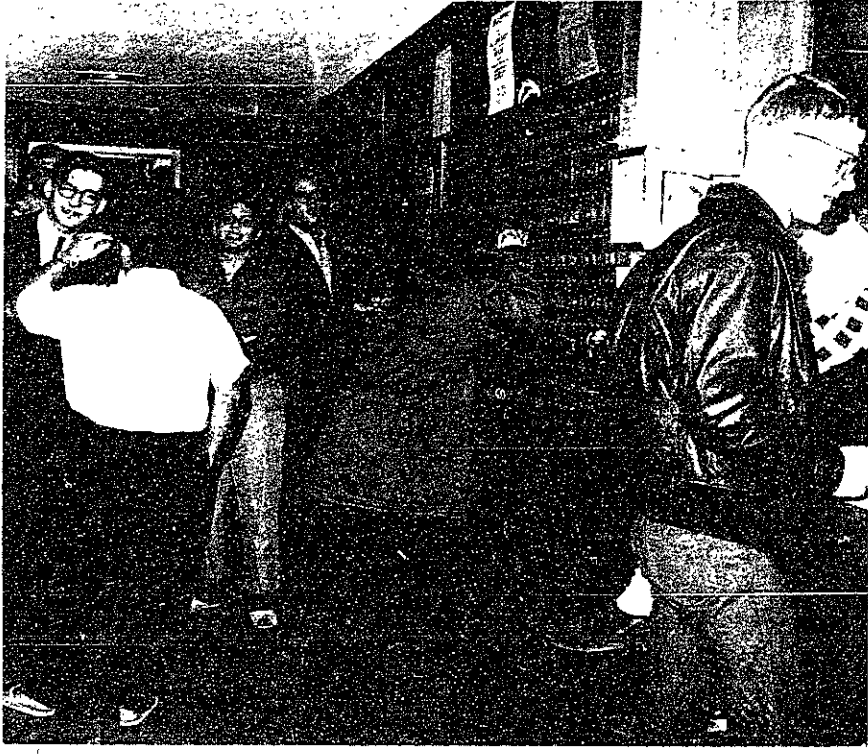


Photo by John Torode

Baker House residents gather for good news last Thursday night as the Institute delivered first term grade reports. Since the purpose of attending MIT is to obtain knowledge and not high grades the tools shown above were not really interested in their cums, but consented to smile for The Tech roving photographer.

Failure rate for spring courses and probation percentages listed

Last year's second term courses with enrollments of over 50 students have been classified by percentage of failing grades (E, F or O).

Those courses which flunked 9-11% of the enrolled members were 5.42, 8.72, 18.10 and 18.20.

Courses which handed out failing grades to between 6 and 8% of their members included 2.401, 5.02, 5.62 and 6.07.

Also included in the 6-8% bracket were 8.04, 18.02 and 18.04.

Three to five per cent of the enrolled students did not pass in 2.02 T, 2.403, 5.14, 6.06, 6.27J, 6.41.

Also included in this group were 8.02, 8.04I, 8.07, 14.01, 16.20T, and 18.03.

Students were treated similarly by the Institute in 18.06, 18.15, 18.22, 21.04, 21.11 and 21.68.

Of those registered for 1:15, 2.101, 2.671, 2.672, 5.142, and 6.02, 0-2% did not receive credit.

The Institute did not pass the same percentage in 6.05, 6.08, 6.14, 6.25T, 6.251, and 6.342.

A similar percentage failed 6.44, 6.70, 6.72, 7.02T, 8.053 and 8.06.

Also included in this bracket were 8.10, 10.13, 10.31, 14.004, 14.02, 14.51, 14.70, 14.71, and 14.77.

Zero to two per cent also failed in 14.84, 14.91, 15.01, 16.62, 18.05, 21.54, 21.80, 21.91, and 23.12.

Eight per cent of the freshman class was disqualified or put on probation last spring while 10% of the freshmen were so treated in 1962-63 and 8% in 1961-62.

Nine per cent of the sophomores were either disqualified or placed on probation, as compared with 10% for 1962-63 and 9% in 1961-62.

The junior class had 6% of its members disqualified or put on probation last spring while only 4% of the juniors were so treated the year before and 8% in 1961-62.

The seniors had the lowest casualty rate last spring as 3% of their members were placed on probation or disqualified. One per cent of seniors received similar treatment in 1962-63 and 2% in 1961-62.

Dr. Nauta delivers talk on structure of brain

"The Frontal Lobe and Limbic System" was the topic of Dr. Walle J. H. Nauta's talk, the Annual Adam M. Miller Memorial Lecture, delivered at the State University of New York Downstate Medical Center on January 18.

The Indonesian-born professor in the Department of Psychology obtained his M.D. and Ph.D. in anatomy and neurophysiology from the University of Utrecht, in the Netherlands. He then taught there and at the University of Zurich, Switzerland. Since his immigration to the United States in 1951, he has been associated with the Walter Reed Army Institute of Research as a neurophysiologist and with the University of Maryland as a professor of anatomy.

Among Dr. Nauta's significant discoveries is a staining technique for revealing hitherto obscure connections within the nervous system. Bearing his name, this particular procedure is used internationally and has stimulated much research in neuroanatomy.

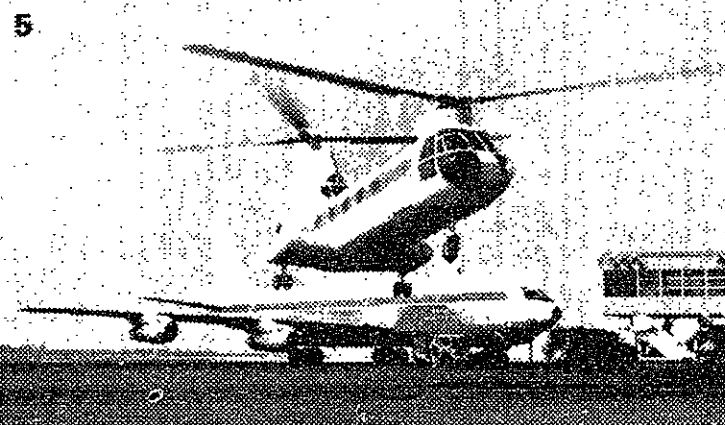
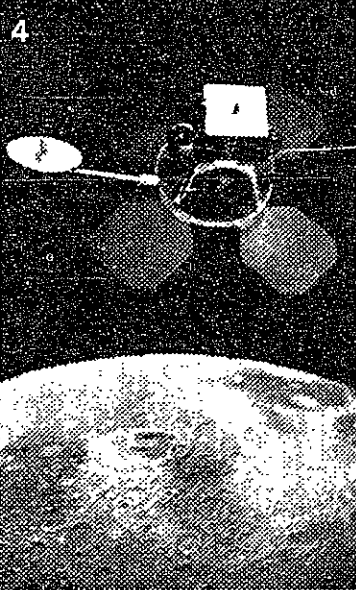
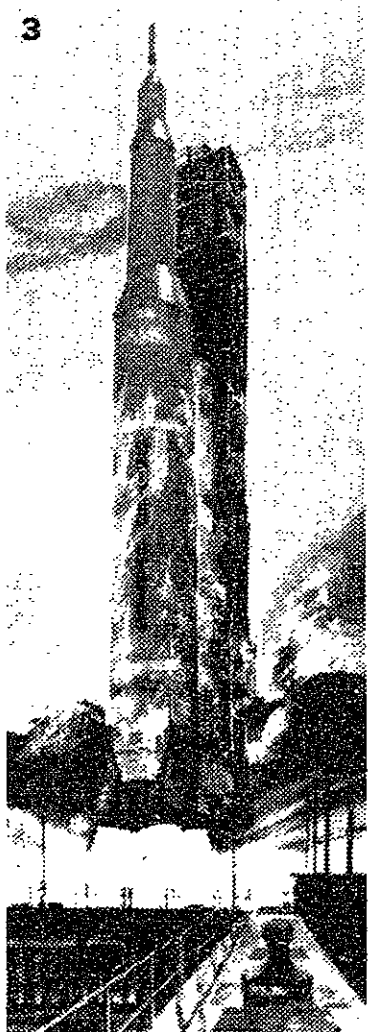
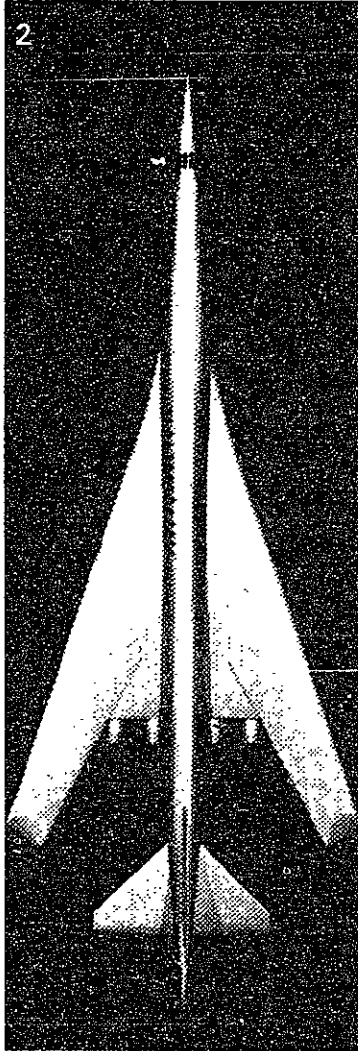
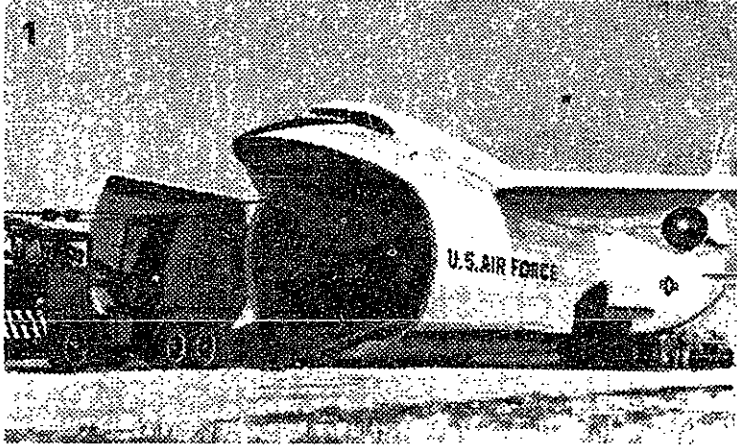
Sheehan to give talk at next TCC meeting

At its first meeting of the second semester, the Tech Catholic Club will feature as a guest speaker Edward R. F. Sheehan, author of the controversial Saturday Evening Post (Nov. 28) article: "Not Peace, but the sword: The New Anguish of American Catholicism."

The subject of Mr. Sheehan's talk will be the repercussions of his article. The meeting will be held in the Vannevar Bush Room at 7:15 tonight. The public is invited.

Let's talk about engineering, mathematics and science careers in a dynamic, diversified company

Campus Interviews Tuesday, Wednesday and Thursday, Feb. 23, 24 and 25



Young men of ability can get to the top fast at Boeing. Today, Boeing's business backlog is just under two billion dollars, of which some 60 per cent is in commercial jetliner and helicopter product areas. The remainder is in military programs and government space flight contracts. This gives the company one of the most stable and diversified business bases in the aerospace industry.

No matter where your career interests lie — in the commercial jet airliners of the future or in space-flight technology — you can find an opening of genuine opportunity at Boeing. The company's world leadership in the jet transport field is an indication of the calibre of people you'd work with at Boeing.

Boeing is now pioneering evolutionary advances in the research, design, development and manufacture of civilian and military aircraft of the future, as well as space programs of such historic importance as America's first moon landing. Gas turbine engines, transport helicopters, marine vehicles and basic research are other areas of Boeing activity.

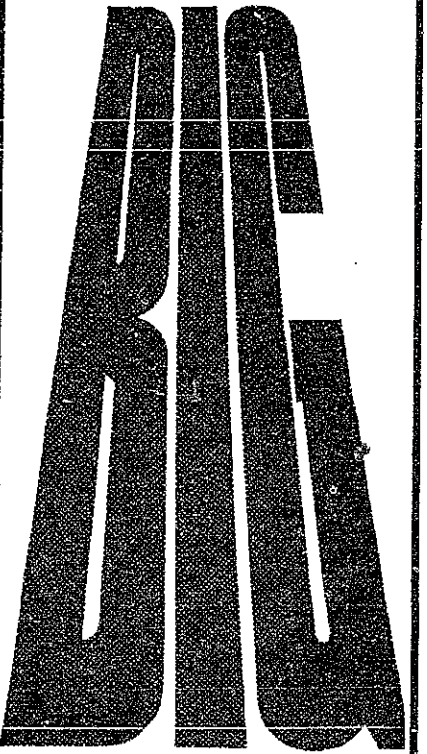
Whether your career interests lie in basic or applied research, design, test, manufacturing or administration, there's a spot where your talents are needed at Boeing. Engineers, mathematicians and scientists at Boeing work in small groups, so initiative and ability get maximum exposure. Boeing encourages participation in the company-paid Graduate Study Program at leading colleges and universities near company installations.

We're looking forward to meeting engineering, mathematics and science seniors and graduate students during our visit to your campus. Make an appointment now at your placement office.

(1) CX-HLS. Boeing is already at work on the next generation of giant cargo jets. (2) Variable-sweep wing design for the nation's first supersonic commercial jet transport. (3) NASA's Saturn V launch vehicle will power orbital and deep-space flights. (4) Model of lunar orbiter Boeing is building for NASA. (5) Boeing-Vertol 107 transport helicopter shown with Boeing 707 jetliner.

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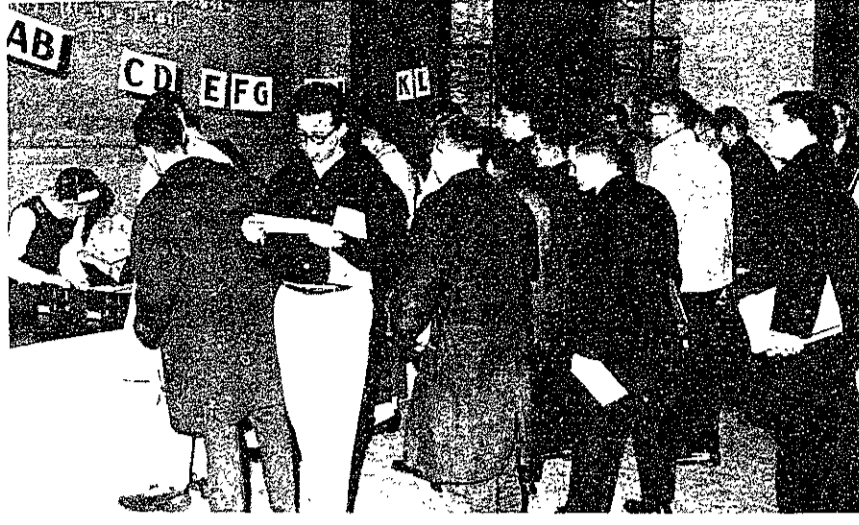
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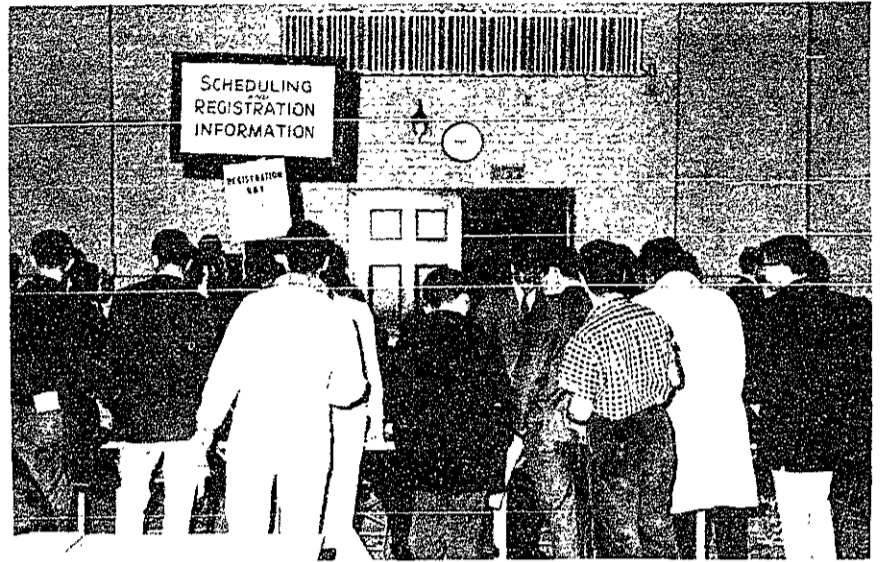
Monday brought Registration Day lines to Tech



Semi-annual Long Lines Day began for upper classmen waiting to see their Registration Officers (above left) and ended for some after waiting to receive roll cards (above center). Lucky losers waited in the Cashier's Office line (above right), while the unlucky hiked to the Daggett Building E-19. One grad student went thru the

Cashier's Office line twice for the same Bursar's Office mistake. A sophomore coed was scheduled for a class she didn't know existed. She waited in line in E-19 only to be told that she had waited in the wrong line. Freshman waited in 50-340 (lower). At 3:00 PM a face to a closed locked door mumbled, "I was waiting—when . . ."

Photo by John Torode



Big federal contract

MIT gets grant for sense aid center

By Scott Moffatt

The federal government has granted MIT a \$99,760 contract to start a center in the Boston area for the testing and development of new sensory aids for the blind and deaf-blind.

The contract was made by the Vocational Rehabilitation Administration, and the U.S. Department of Health, Education and Welfare and covers the establishment and the first year of operation of a Center for Sensory Aids Evaluation and Develop-

ment, which has already begun to set up shop in Cambridge.

Cooperating with MIT will be scientists and engineers from Harvard, Tufts, Brandeis, Cornell, and Pittsburgh Universities, from the American Foundation for the Blind and from the National Institute of Health.

The managing director of the center is John K. Dupress, a former Director of Technical Research at the American Federation for the Blind, who is now working on electronic sensory

aids at the MIT Research Laboratory of Electronics. Mr. Dupress is himself blind.

The center is supervised by a steering committee which is headed by Dr. Robert W. Marm, Professor of Mechanical Engineering at MIT. Other MIT personnel at the center include Professors Richard M. Held, Samuel J. Mason, Thomas B. Sheridan and Dr. Oliver Selfridge. Also a member of center staff is Murray Burnstine, a design engineer and for-

(Please turn to page 12)

John I. Mattill recognized for academic publications

John I. Mattill, MIT Director of Publications, was presented a special citation for his work in academic publications by Miss Warrine Eastburn, the New England Director of the American College Public Relations Association, February 4.

The presentation ceremony occurred during a three-day meeting at Connecticut College of 175 development and public relations officers from colleges throughout the six New England states.

In citing Mattill the New England District of ACPRA broke a precedent by awarding special recognition to one of its own members. Mattill has won nationwide respect from his colleagues through the high quality of his academic publications.

In presenting Mattill with the award, Miss Eastburn called him a "champion of graphic design for college publications, persuasive spokesman for visual excellence, generous and gentle adviser to us all." She also said

that he, "set MIT at the pinnacle of print and urged us all up the slopes."

Also receiving a citation from the ACPRA was Herbert Brucker, Editor of *The Hartford Courant*, who Miss Eastburn referred to as "eyewitness to history in our turbulent times."

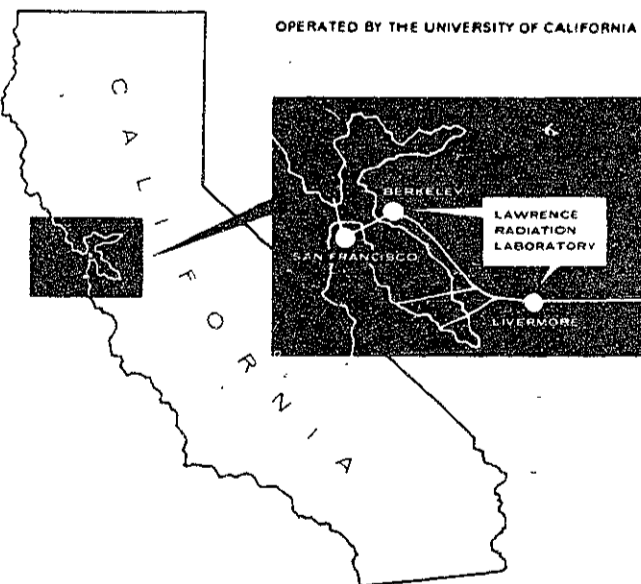
Levin dies in car crash

Mr. Morris J. Levin, an engineer at Lincoln Laboratories was killed shortly before noon Saturday in Natick on the Massachusetts Turnpike in an automobile accident.

State police said Levin was operating his car in the westbound lane of the turnpike when an eastbound car went out of control and crossed the median strip striking Levin's auto.

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Class elections—may the best men win

The coming class elections March 2 will be of special interest; they will offer a test of the advantages of class government reorganization. Hopefully this year's elections will set a precedent of high-quality candidates.

The new plan calls for replacement of the vice-president and secretary-treasurer of each class by a class committee; the change was intended to insure that the best men will be in office. Some opponents of the change claim that the committee will not be as attractive as the titled positions; this election will determine the validity of their claims.

The change was proposed on the assumption that capable people in office will receive due credit, regardless of title; the chances for achievement in the committee should be unchanged, or even improved. A voter well informed about the accomplishments of student government will be accordingly influenced in subsequent elections.

The big decision for candidates will be whether or not to run for the presidency. As previously, this will require some judgement of voter appeal. But the big test for the committeeman will be during his term of office, determining whether he has the talent to qualify him for a higher post.

For the voter, the decision may be harder, especially in the junior class. Six men will be elected to the committee; the voter should be aware of the capabilities of at least this many candidates when

making out his ballot. Hasty selection will defeat the purpose of the committee as a test of student support.

Early declaration of candidacy will make the voters' task easier, as well as improving a candidate's chances. As petitions are filed, there should be indications of the success of the change.

Rededication

With the new term comes a new volume of The Tech, under new management with some new ideas. But we wish to remind our readers of the old and unchanging obligations we owe to them, and which we feel were so well handled by the old Board and staff.

As the official newspaper of the MIT undergraduates, The Tech tries to present pertinent campus information as clearly, impartially, and promptly as possible. We welcome any opportunity to assist rapid communication between administration, student activities, and the undergraduate body.

It is our duty to report issues as well as facts, and to comment on the news as we see it. If others disagree with our opinion, our pages remain open as a forum for all who offer intelligent dissent. We also hope to continue printed discussion of campus topics by student leaders.

Our goal is to make the newspaper not only informative, but also interesting. The readers are the sole judge of our success here; any corrections or suggestions will be appreciated. New columns and features will be tried in the near future, and reader reaction will be of great concern.

We will undoubtedly make errors, both in reporting and in judgement; we are glad to admit our mistakes if only our readers make the effort to point them out. We pledge our effort to make The Tech a truly representative publication; our achievement demands the interest of the student body.

SCC: what's ahead

We were happy to print the letter on this page attacking our statement that the Student Center Committee should be on the Executive Council, because the letter presents many of the best arguments against the proposed action. It is to everyone's advantage that the Student Center Committee be thoroughly examined; a better public realization of the Committee's problems and status will make their task easier.

There is a certain amount of vagueness about the committee, not only because it is impossible to predict exactly what it will be called upon or allowed to do, but also because the general revision of student government hopes to better define the relationship of the various committees to Inscomm. No definite place can be assigned to the committee until this week's discussions are over.

But one fact is certain; the Student Center Committee handles many small but necessary details about which most students, even Inscomm members, do not know or care to know. Like the many technical decisions of Finboard, these details cannot be reviewed by Inscomm; like Finboard's work, the sum of many small matters is important.

It is a matter of opinion, then, what position will give the committeemen closest connection, day to day, with student government leaders. After the definition of committee structure is handled, the Student Center Committee's future should be easier to determine.

Kibitzer

By Mark Bolotin

NORTH
 ♠ J 10 4
 ♥ A 9 8 6
 ♦ A J 10 3
 ♣ A J

WEST
 ♠ 8 7
 ♥ K 7
 ♦ K Q 9 6
 ♣ K Q 7 5 4

EAST
 ♠ A K Q 9 3 2
 ♥ Void
 ♦ 7 5 4
 ♣ 8 6 3 2

SOUTH
 ♠ 6 5
 ♥ Q J 10 5 4 3 2
 ♦ 8 2
 ♣ 10 9

East-West vulnerable.
 Bidding:

East	South	West	North
P	3H	P	4H
P	P	P	

Opening lead: 8 of spades.

South managed to make an extremely difficult contract by taking the time to analyze the bidding and then by playing the contract accordingly.

West led the eight of spades to East, who cashed his ace-king, as West played high low; then East followed with the queen. Before South played to the trick he paused to consider the bidding and the play. East is marked with six spades headed by the top three honors. If he also has the king of trumps, he would have opened the bidding. Therefore, he has either a void or the singleton seven of hearts. Then West must have all the missing club and diamond honors; for even a side queen would have given East an opening bid.

If declarer would trump the spade, he would still have three tricks to lose to each of West's kings. South decided that his only

play was to sluff his losing diamond. West discarded the nine of diamonds, and East returned a diamond. North's ace won the trick, and a diamond was trumped high in order to finesse for the king of hearts.

Declarer returned to his hand to run all of his trumps. West was able to discard four clubs on the hearts. The position of the cards was:

NORTH		EAST	
♠ None	♥ None	♠ None	♥ None
♦ J	♣ A J	♦ 7	♣ 8-6
WEST		EAST	
♠ None	♥ None	♠ None	♥ None
♦ K	♣ K Q	♦ 7	♣ 8-6
SOUTH		EAST	
♠ None	♥ 2	♠ None	♥ None
♦ None	♣ 10 9	♦ None	♥ None

When South plays his last trump West is helpless. A diamond discard enables South to take North's ace of clubs and jack of diamonds for the last two tricks. A club sluff sets up North's ace and jack of clubs.

It is important to note that a diamond discard at trick three is a better play for South than a discard of his losing club. If he discards a club, he is unable to get back to his hand to finesse for the king of trumps and must play for it to drop. Similarly, if East leads a club instead of a diamond, at trick four, South must hope to drop the king of hearts, or else lose his squeeze.

Letters to The Tech

Student Center

To the Editor:

I wish first to congratulate The Tech on the excellent job which has been done of covering the developments in the student government reorganization in the past few weeks. It is very important that what is being proposed be understood by the MIT student body. Many of the decisions that will be made will have a profound effect on undergraduate life at Tech, despite the fact that they seem on the surface rather irrelevant to the activities of the average tool.

There is one aspect of reorganization, however, which your recent editorial dismissed rather quickly and easily, which involves a great many more problems than were suggested. I feel that your agreement with the proposal to form a Student Center Committee as an administrative committee with a seat on the Executive Council shows poor understanding of both the Council and the Student Center. You do show appropriate concern that a Student Center Committee might grow to control a disproportionate share of "student government functions." Yet you advocate a system which

can only increase the danger of such an eventuality.

First, it seems ludicrous to me that anyone should be so brazen as to propose as powerful a status for the Student Center Committee as an Executive Council seat when even the present, temporary Student Center Committee is unable to define clearly the functions which will be required of such a committee. Providing a new organization with greater status and more power than it has been shown to need is merely a way to guarantee that it will grow to exercise this power and status. This is totally unacceptable in the case of the Student Center Committee.

More important, your editorial is concerned that Inscomm exercise the power of review to a large extent with regard to the Student Center and any administering committee. When was the last time that Inscomm reviewed a Finboard or Secretariat decision? It is the subcommittees which come under the closest scrutiny of the Institute Committee, not the members of the Executive Council. The nature of this Council as an initiative body precludes it from nearly as close

(Please turn to page 5)



Vol. LXXXV No. 1 Feb. 10, 1965

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Unsigned editorials in The Tech are the opinion of The Tech's Board of Directors, not that of MIT. The Tech welcomes letters from its readers. Space permitting, such letters will be printed in whole or in part, if deemed by the editor to be of sufficient interest or benefit to the community. Brevity increases the chance of publication. Anonymous letters will not be printed, but names will be withheld upon request.



PEANUTS appears daily and Sunday in the Boston Herald.

Special Summer Programs announced

The preliminary announcement of MIT's Special Summer Programs for 1965 has been released by James M. Austin, Director of the Summer Session.

Special programs in Aeronautics and Astronautics, Architecture, Chemical Engineering, Chemistry, City Planning, Civil Engineering, Electrical Engineering, Management, Mechanical Engineering, Metallurgy, Nutrition and Food Science, Oceanography, Operations Research and Statistics.

The Summer Session of 1965 will be the sixteenth in which MIT has presented Special Summer Programs. According to Mr. Austin, "In past years registrants for this series have come from industrial companies, government agencies, and research and educational in-

stitutions throughout this nation and overseas."

Dr. Julius A. Stratton, President of the Institute, has stated, "The Summer Session at MIT has two principle objectives: one is to give qualified men and women in industry, government and education opportunities to keep pace with recent events and current trends in their own professional fields; the other is to supplement our regular academic year with subjects for students working for degrees."

A limited number of Special Summer Program Scholarships are available to defray, in part, the Program tuition of members of teaching staffs of other educational institutions.

In addition to the Special Summer Programs the 1965 Summer Session will include academic subjects from the Institute's regular academic program starting June 21.

Letters to The Tech

(Continued from page 4) examination as that applied to the committees which report studies and activities directly to Ins-comm.

In view of these very pertinent facts, it seems clear to me that any proposal to elevate the Student Center Committee above special or temporary status before it is clearer what its functions will be, and which functions could best be administered by other branches of student government already extant, is both rash and premature at this time. This suggestion is a gross error in judgment which The Tech should be ashamed to support.

Bruce A. Morrison '65

Conference topic

To the Editor:

I would like to reply to the "Letter to the Editor" written by Erwin Strauss which appeared in the January 13 issue of The Tech. While Mr. Strauss's criticism of The Tech's editorial may be accepted by one who is willing to seriously consider the possibility of having a conference here at MIT, the tone and much of the content of his letter do not help to clarify the situation.

The objections that Mr. Strauss makes seem to revolve around his view that within the academic framework of MIT no topic of sufficient importance can be found to merit the expenditure and effort that a conference would require. However, as an observer of our troubled society, I can assure Mr. Strauss that there are many contemporary problems about which much can not only be said, but also be done. One of

the functions of a school such as MIT should be the dissemination in a concise manner, of all the pertinent facts and scholarly viewpoints relating to these problems to the interested student who would attend such a conference.

It would have been informative for Mr. Strauss if he had consulted with David Mundel, the chairman of the conference planning committee, to find out what was actually being proposed. Having spoken with Mr. Mundel I can report that the committee seems to favor a very crucial and laudable subject for a conference, the problems of our urban areas. This topic would presumably include such essentials of urban life as public housing, mass transportation, education and defacto segregation, recreation, welfare programs, class unemployment, and the political process. Because of the rapid growth of American cities and the inability of our political leaders to plan their development, an intercollegiate discussion on the future of our urban centers would be both a proper and desirable undertaking for the MIT student body.

Richard Rosen, '66

TEN elects Jacobs to head new board

Elected General Manager of Tech Engineering News Monday was Philip M. Jacobs '66, formerly Managing Editor. He succeeds Robert F. Goeke '65.

Also elected to the TEN Executive Committee were Mona Dickson '66, who continues as Editor; Gerald Clarke '66, Business Manager and Ellen Bronstein '67, Managing Editor.

Other newly-elected members of the Board of Directors were Allan Green '66, Associate Editor; Michael Weinreich '68, Associate Managing Editor; William Park '66, Art Editor; Sanford Libman '65, Photo Editor; Wayne B'Rells '64, Distribution Manager; Roy Maxwell '68, Comptroller; and Michael Shupp '68, Publicity Coordinator.

The new Board will take office for the March issue, and will serve until February of next year.

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WHAT'S NEW IN THE FEBRUARY ATLANTIC?

"Leading from Strength: LBJ in Action" by David Brinkley: President Johnson's vision of the Great Society, and the determination and political skill of the man give us reason to expect that in domestic affairs we shall climb the slopes with deliberate speed.

"The Young Drug Addict: Can We Help Him?" by Jeremy Lerner: In the last decade, drug addiction among teenagers has been of serious concern. This article is based on interviews with heroin addicts seeking help.

PLUS AN ATLANTIC EXTRA: "Footloose in Prague: A Marxist Bohemia" by Curtis Cate: An eye-witness report of visits to Czech writers, observations on night life, the theater, poetry readings, the Catholic Church, and Iron Curtain life.

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New Indian Institute

Indian management school described

According to John M. Wynne, associate dean of the Alfred P. Sloan School of Management, the expansion of industry that has taken place in India since its independence has occasioned lively interest in the techniques of industrial management.

Mr. Wynne, who recently returned after 16 months in Calcutta, has been serving as MIT senior representative at the Indian Institute of Management, Calcutta. The Indian Institute, a new graduate school of management, was established in 1961 by the government of India in collaboration with the Ford Foundation and the Sloan School.

Although Indian industry has advanced rapidly during the past decade, its operations are not as complex as those of Western industry. Nevertheless, Dean Wynne points out, the methods of research and analysis which are applied to industrial problems in large corporations in the United States work just as well in understanding some of the difficulties peculiar to Indian industry. MIT responds to Indian invitation

MIT's activity in management education in India began in 1960 in response to an invitation from the All India Management Association for MIT to assist in arranging seminars in advanced management techniques for senior executives. The seminars, which have been held each summer since 1960, are designed to orient the participants to the newer techniques of management. In 1964 the Indian Institute of Management assumed responsibility for the operation of this Advanced Management Program.

MIT was requested, in 1961, to help in the formation of the Indian Institute of Management at Calcutta. Dean Wynne reported that the progress of the school has been steady, with new types of educational programs being started as facilities become available. With the admission of the first regular graduate students in 1964, the Institute has become completely operational.

One measure of the Indian Institute's success, Dean Wynne said, is the number of requests it has received from both industry and government to undertake research projects. Some projects are carried out on a consulting basis while others are conducted under Indian Institute sponsorship.

One of the latter type is directed at determining the factors which lead to major labor-management disputes. The study was instituted at the request of a large company which suffered a

long strike. The Institute assumed sponsorship of the study in order to assure no bias toward either labor or management.

In 1962 the Institute initiated a series of short-term courses for executives working in particular areas of management operations. These courses last from four to six weeks and cover such topics as marketing planning and operations research. Three or four such programs have been held each year. The visiting MIT faculty members and the Indian Institute's own faculty participate in them along with leaders from government and industry in the field being investigated.

Junior executive program initiated

As former director of the executive development programs at MIT, Dean Wynne helped begin a program which was started in 1963 at the Indian Institute for junior executives. Similar to the Sloan Fellowship Program at MIT, it offers concentrated study at the graduate level to young men who show promise of future development. Students are young men with several years of management experience, nominated for admission by the companies or agencies for which they work.

With expanded living accommodations available, the 1964 academic year marked the beginning of the Indian Institute's regular two year graduate course. Fifty graduate students have been enrolled, and 80 are expected to enter this year. The Indian Institute will continue to expand over the next seven or eight years to a capacity enrollment of 600 regular students and 150 executive students.

Warren G. Bennis, professor of industrial management at the Sloan School, succeeds Dean Wynne as MIT's senior representative at the Indian Institute. More than a dozen members of the Sloan School faculty have traveled to India at various times to take part in the programs being carried out there.

The Indian faculty and research staff have grown steadily and provide a firm nucleus for the anticipated growth of the overall program. As the Indian faculty continues to grow, MIT faculty involvement will diminish, but the understanding of the Indian industrial structure gained by the MIT visitors indicates a continuing cooperation between the two schools.

Visiting Professorship announced; Karl Pfister honored by company

Establishment of a Karl Pfister Visiting Professorship in chemistry at MIT was announced by Dr. Jerome B. Weisner, Dean of the School of Science.

The professorship honors Dr. Karl Pfister '40, who is executive director, developmental research in Merck Sharp & Dome Research Laboratories. It was made possible by a \$25,000 grant from the parent corporation, Merck & Co., Inc. of Rahway, N.J., and provides for an annual visit to MIT by a distinguished scientist, to be chosen by the Institute. While here, he will lecture and meet with students.

In authorizing the grant, the

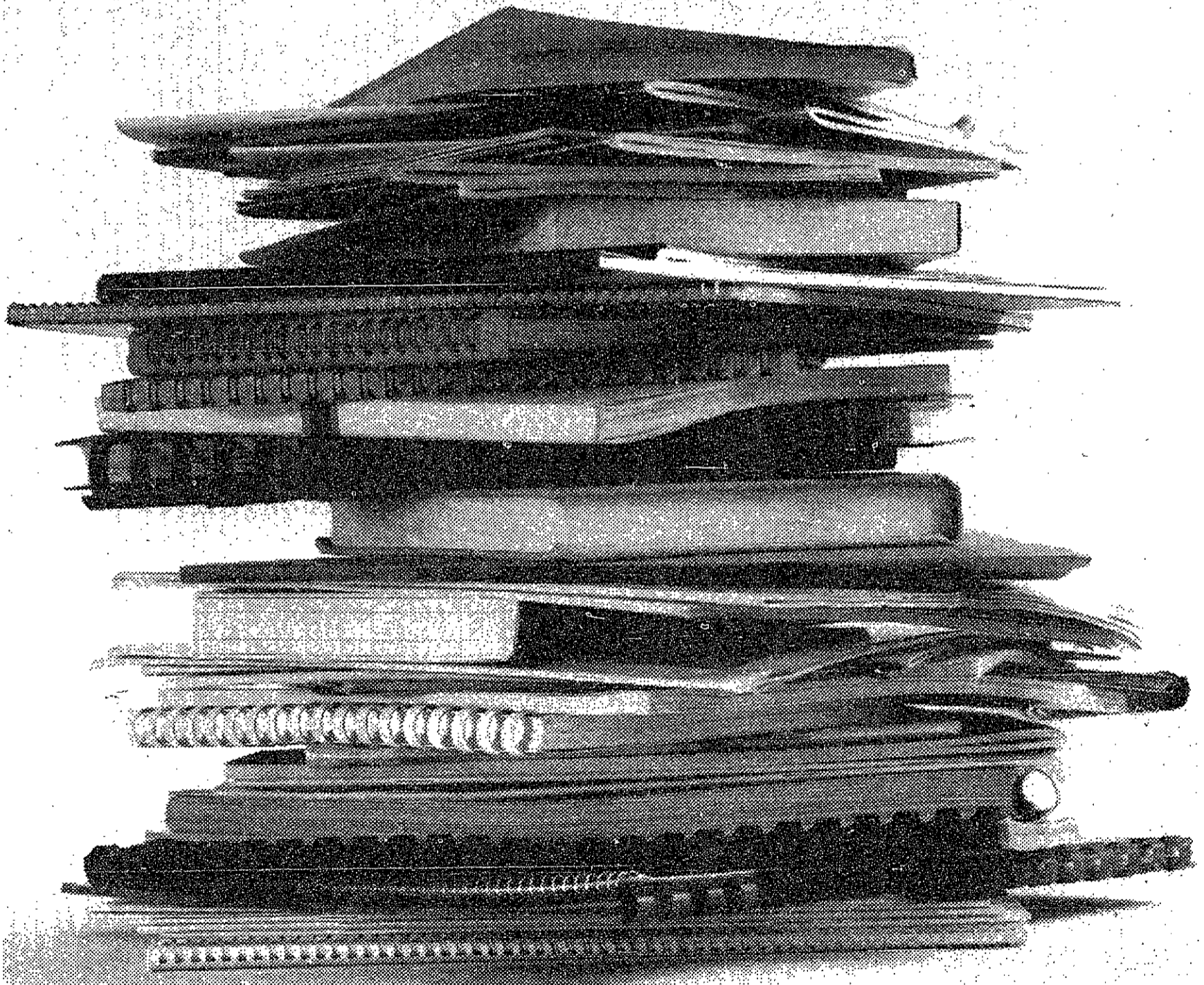
Merck board of directors said that Dr. Pfister was honored "for his leadership in chemical research and to record his scientific contributions in the field of medicinal chemistry."

He has worked in the development of compounds for the treatment of high blood pressure and in research on sulfa drugs, vitamins, steroids and alkaloids. He joined the company in 1942 after receiving the Ph.D. in organic chemistry from MIT.

The Pfister Professorship is the sixth such award the Merck directors have voted in honor of their research scientists.

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Key to foreign policy

Griffith stresses Vietnam importance

Dr. William E. Griffith, director of the International Communism Project at the MIT Center for International Studies and professor of Soviet diplomacy in Tufts' Fletcher School of Law and Diplomacy, stated in an interview with the editors of Readers' Digest, entitled "We Must Stop Red China—Now!," that South Vietnam was of increasing importance to the United States.

Griffith expressed this view in the Readers' Digest February issue, since he feels that "the United States cannot afford to have a major communist expansionist power in control of either the Asian or the European continent." He further stated that "the key question in American policy today—indeed, the key question in our containment of the entire problem of worldwide Chinese expansionism—is what we do in South Vietnam."

Dr. Griffith proposed placing "pressure on North Vietnam and China in terrain and by methods of our own choosing, where we are strong and they are weak. Specifically, this means guerilla raids and air strikes on bases in North Vietnam, from which the war in South Vietnam is supplied and controlled."

Dr. Griffith did not think that this policy would result in total war with communist China. "Contrary to what many people in the United States think, the Chinese do not want a major war. They do not take high risks against us. Captured Chinese military documents clearly reveal that the Chinese are well aware of our thermonuclear capacity and also of our conventional military strength; they intend to take no risk that would unleash this power."

He further commented that one should consider the recent explosion of an atomic bomb by Red China "as a political advantage, rather than a military gain" since Red China does not yet have "an effective delivery system for the A-bomb."

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Norton attends Study Program

Professor John T. Norton, Foreign Study Advisor, attended a conference of American Overseas Study Program directors organized by the Council on Student Travel and held at Cannes, France during the week of January 25.

Professor Norton is interested in the establishment of an MIT Overseas Study Program to provide students with an opportunity to become proficient in a second language, become familiar with the culture of another country, and undertake some serious professional work acceptable as credit toward the MIT degree requirements.

The conference provided an opportunity for discussion of existing programs and plans for new developments, and the ensuing visit by Professor Norton to universities in Switzerland, France, and Germany allowed him to investigate opportunities for the establishment of the MIT program.



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2. With graduation drawing near I realized how much more there was for me to learn.

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3. I must admit the thought did enter my mind.

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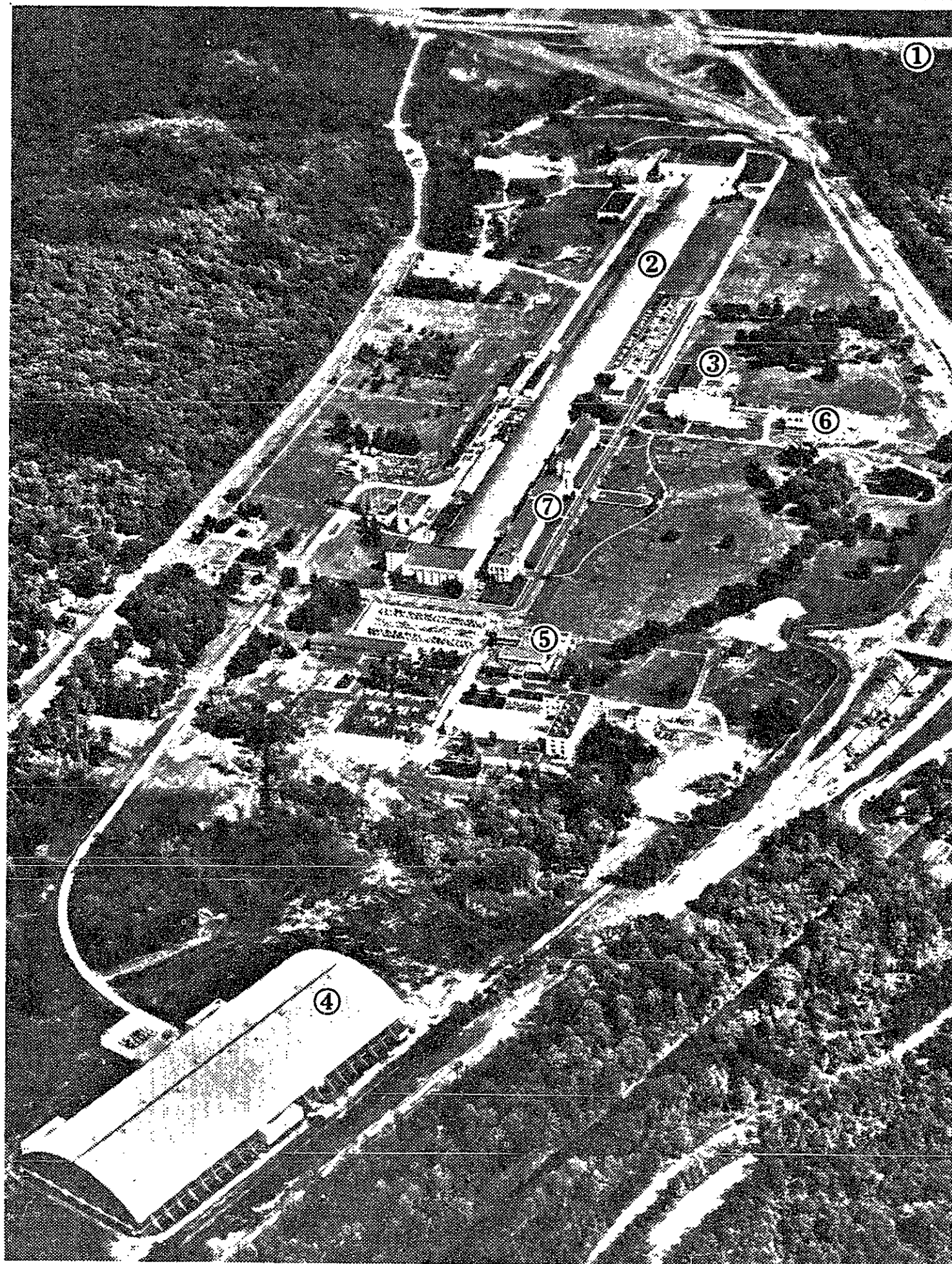
IDC to hold Jabberwock mixer

The Informal Dance Committee will open MIT's spring mixer calendar at 8 pm this Friday night with a Jabberwock Mixer in Walker Memorial.

The mixer will feature free refreshments, the music of Richard Martin, and women from Boston area schools. Included in the supply of girls will be several bus-

loads to be brought in from Regis, Mt. Ida and Wellesley. Last fall's IDC Crater Mixer offered nearly five hundred girls for Techmen to meet.

Admission to the Jabberwock is \$1 for men and 75c for girls. Advance tickets at reduced rates are on sale until 3 pm Friday in Building 10.



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⑥ The unique STRUCTURAL MECHANICS LABORATORY facilities at Carderock are the new pressure tanks which permit the study, by means of large structural models, of the hull structures for deep diving submarines and deep sea research vehicles to reach all ocean depths. Additional Structural Mechanics Laboratory facilities are scattered throughout the 186 acres, and include a tridimensional Static-Load Frame, a Pentagonal Test Pond, Explosion Pits, and a 600,000-Pound Universal Testing Machine. With these facilities, Laboratory scientists and engineers conduct studies aimed at improving the hull structure and increasing the resistance of the Navy's ships to enemy attack. This requires development of fundamental, theoretical approaches of load and response, and development of engineering solutions based on the increased understanding. A substantial portion of the ship protection research is carried out at the Underwater Explosions Research Division of this Laboratory located at Portsmouth, Virginia.

⑦ The ACOUSTICS AND VIBRATION LABORATORY was just established to intensify research and development of ships of improved detection capability, and reduced vibrations and underwater sound output. Fundamental and applied research in hydrodynamics, structural acoustics, mechanical vibrations, and signal processing are supplemented by conduct of acoustic and vibration trials, and development of acoustic and vibration instrumentation.

The OPERATIONS RESEARCH GROUP cannot be pinpointed as easily because it ranges over all the RDT&E activities at The Model Basin — hydromechanics, structural mechanics, aerodynamics, and applied mathematics. Special applications today are in the fields of naval architecture, ship silencing, ship protection, and weapons effects . . . setting realistic performance goals for ships and submarines in view of probable environmental factors . . . handling special externally-generated projects that tie in with DTMB capabilities . . . and making recommendations to the Technical Director as to improving research methods and orientation.

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INTERVIEWS

Representatives from The David Taylor Model Basin will hold On-Campus Interviews

Tues., Feb. 16th

Please contact your College Placement Officer to arrange an appointment.

MIT graduate proposes electronic aids for preventing boxing accidents

Allen B. Chertoff '59 has proposed a system whereby the condition of a boxer could be continuously monitored over a computer while he is in the ring.

According to Chertoff, a 28-year-old electronics and aerospace consultant, "The equipment now exists to create an electronic system by which the physical condition of a fighter could be monitored through the course of a fight, and the effectiveness of the blows he strikes and sustains could be measured electronically."

Appalled by two bouts he saw in recent years; the one in which Benny (Kid) Paret was fatally injured and the other in which Sonny Liston surrendered his crown while sitting on a stool, — Chertoff suggested a system similar to that used to chart physical reactions of astronauts during space flights.

This system requires the fighter to swallow a device containing a

transducer which would transmit data including metabolic changes, heart beat, pulse rate, blood pressure, and brain conditions to a central computer. The fighter would also wear gloves with transducers buried in them to measure the impact and effectiveness of his punches.

Equipment such as this could be used to detect internal bleeding or minor cerebral strokes that might end in tragedy. Such miniature devices would also be able to transmit data for judging a fight.

A computer would not be fooled by the sound of punches that are actually bouncing off arms, or by a fighter who loses his balance after actually slipping a punch that seemed to hit him hard.

Such equipment might have saved Paret, claimed Chertoff, by transmitting data on his physical condition prior to the fatal injury. It could also have measured the impact of the lefts Liston threw after his arm was supposedly incapacitated.

Whether or not the sport's own system of self-policing will be called into question by direct Federal legislation may depend on the success of this or other solutions to the boxing problem.

College World

Princeton rejects thought of coeds; Louisville ignores presence of mice

Coeds may be a fixture at the Institute, but that's not the case at other schools, as reported in the New York Times. Princeton, says the Times, has again decided that students will not benefit from the presence of women in their classes.

Coeducation at Princeton, a subject which periodically comes up for discussion, was brought up several months ago by the Princetonian, which editorialized on the advantages of female faces in the Princeton classroom. As before, the administration announced that it was considering the problem, and as before, came the announcement that it was not deemed advisable. And, adding to the woes of the Princeton males, a request for longer open house hours was denied.

Rodents in the room?

Meanwhile, as Princeton males request company in their rooms, females at the University of Louisville complained about unwanted visitors in theirs. Although many of the dormitory residents are unaware of the fact, reports the Louisville Cardinal, there are mice in the women's dormitory.

The girls who do know about the mice have varying reactions. One expressed concern, but was annoyed at the loss of a cheese left on her desk. Another, taking defensive action, constructed mouse traps in her air conditioner.

When asked to comment on the situation, the Dean of Women commented, "Mice are ever present when there is food around." Although she did not feel that enough were around to worry about, the sentiments of many were perhaps expressed by one girl: "What is the rent rate in apartments near campus?"

The Smear Technique

While women and mice occupied the attention of some collegi-ates, the focus at Carleton University, Ottawa, was on publications, reports the Carleton.

Speaking at a judicial hearing on the banning of "The Thunderbolt," party newspaper of the National States Rights Party of Birmingham, Alabama, an Ottawa publisher informed the assembly that he had been "smeared" by the Carleton.

Contending that "Communism is Jewish," the publisher stated that he had been libeled by a special "hate sheet" of the Carleton. He had said in his paper that opposition to him at Carleton was inspired by a Communist cell.

In testimony before the committee, the publisher stated that "two crew-cutted youths" had approached him for an interview before the "hate sheet" appeared. "They tried to trip me up on every point," he said. The next he heard was when his doorbell was rung and a hand thrust in copies of the issue dealing with his paper.

Testifying in behalf of the lifting of the ban on mailing of the publication for "scurrilous anti-Jewish and racist material," he said that the paper had been boycotted by Jewish advertisers since he started publishing anti-Communist material. "The Lord," he stated, "must have been on our side to remain solvent through this hellish thing."

Trash removal

The same issue of the Carleton reports that a periodical, "Edge," edited by a former faculty member of the University of Alberta had been removed from a magazine rack as trash.

The periodical was removed at the request of an Edmonton city alderman, who branded it "sacrilegious filth." Claiming that the periodical "makes light of Christ and his teachings," he said "I don't know how we can do anything about cleaning up the literature available to teenagers when the university produces filth worse than anything on the newsstands."

According to the owner of the store from which the magazine was removed, he did not sell magazines "of a questionable nature" and those which sell badly.

The publication was also attacked by the provincial minister of municipal affairs, who stated "The so-called literary efforts in Edge pollute the minds of our youths."

Intolerance

Females are the champions of religious intolerance at McMaster

University, according to a survey conducted by The Silhouette, McMaster's student newspaper.

In answer to the question "Do you believe in religious toleration?" fifty-five per cent of female protestants answered "no." It was also discovered that female Protestants disagree with male Protestants on almost all questions of the survey.

Female Protestants, according to the survey, feel that they are objects of discrimination; would not marry someone of a different faith; think Roman Catholics are correct in considering birth control a religious problem; and rate separation preferable to divorce.

The survey covered 763 students, classified as Protestants, Roman Catholics, agnostics, atheists, and others. The majority said that they were content with their religious views, although seniors and graduate students were slightly less content than students in the first three years.

In answer to other questions in the survey, students gave the following answers:

"Do you dislike organized religion?" "Yes," said 75 per cent of atheists and agnostics, and slightly over 50 per cent of other groups. Organized religion was defined as opposed to a personal, individualistic faith. About 85 per cent of both Roman Catholics and Protestants agreed.

Seventy-six per cent of those surveyed believed in the separation of church and state. Only 16 per cent of Roman Catholics advocated church rather than state control of education, as opposed to 30 per cent of Protestants. All groups felt that the university had no effect on their religious beliefs; a majority of Protestants, in fact, felt that their beliefs had been strengthened since entering the university.

Although female Protestants felt that university students were more religious than other persons their own age, agnostics and atheists disagreed. Both female Protestants and atheists agreed, however, that they were the objects of discrimination.

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Making the Scene

THIS WEEK MUSIC
New England Conservatory — Concert of American music, Feb. 10 at 8:30 pm; program: Bovicchi, 'Quartet No. 1 for Brass Instruments'; Toch, 'Sonatina'; Griffes, 'Poem'; Piston, 'Sonata for flute and piano'; 'Hugler,' 'Quintet for Brass Instruments,' Jordan Hall.
Boston Symphony Orchestra — concert; Charles Munch, guest conductor, Feb. 12, 2:00 pm, Feb. 13, 8:30 pm, Feb. 14, 3:00 pm; program: Berlioz, Overture to 'Benvenuto Cellini'; Debussy, 'Iberia'; Roussel, Symphony No. 4; Ravel, 'Daphneis et Chloe,' Symphony Hall.
Thirsty Ear — Concert by Oscar Brand featuring Backroom Ballads, Feb. 12, 8:00 and 10:00 pm. Tickets available in Building 10, MIT Graduate House Pub, 305 Memorial Drive.
Thirsty Ear — Discotheque, Feb. 13, 8:30 pm, nominal cover charge; MIT Graduate House Pub, 305 Memorial Drive.
MIT Humanities Series — Concert by the Contemporary Chamber Ensemble, Feb. 14 3:00 pm.
MISCELLANEOUS
Irish Arts Festival — One-Act Plays, Feb. 12 at 8:30 pm; Little Theatre at Kresge.
Irish Arts Festival — Lecture by John Kelleher, Feb. 13, 3:00 pm; Little Theatre.
Irish Arts Festival — Talk by Russel E. Connor on Jack B. Yeats, Feb. 14, 2:30 pm; Hayden Gallery. Movie 'Pinnegan's Wake' 8:00 pm, Main Auditorium of Kresge.
NEXT WEEK MUSIC
Folklore Series — 'The World of Kurt Weill' concert by Martha Schlamme

S	M	T	W	T	F	S
14	15	16	17	18	19	20
21	22	23	24			

and Will Holt, Feb. 19 and 20; at 8:30 pm; Jordan Hall; admission charged.
Boston Friends of SNCC — Concert by Max Roach, Abby Lincoln, and the SNCC Freedom Singers, Feb. 19; at 8:00 pm; New England Life Hall; donation \$2 to \$4.
MIT Concert Band — Concert of contemporary music, Feb. 20, 8:00 pm; Kresge Auditorium; admission free.
Class of 1965 — Concert by Stan Ge'z, Feb. 21, Kresge Auditorium. No time available.
Baton Society — Concert by John Cage, Feb. 22, Kresge Auditorium. No time available.
Boston Pops Orchestra — Concert, 22, 8:30 pm, Arthur Fiedler, conductor, New War Memorial Auditorium.
War Memorial Inaugural Concert — presentation of Pinkham's 'Canticle of Praise', directed by Prof. G. Wallace Woodworth; Feb. 24, War Memorial Auditorium.
LECTURE
LSC — Harry Golden, Feb. 17, Kresge Auditorium; no time available.
International Student Association — 'Project Action in Venezuela' lecture and slides by Bruce Babbit, Feb. 17, 8:00 pm.
International Student Center — 'Congo Crisis', Dean Edmund Gullion, Feb. 21, 8:00 pm.

theatre...

American premiere of Arden play

by Jeff Stokes

When a person finds himself compelled to live in relative squalor, he may resent it violently at first, but after a time he will come to tolerate and even to embrace his lot. Our dwelling places grow upon us like diseases, and before long we begin to relish the stains and odors that used to offend us.

Such is the relationship that runs through John Arden's 'Live Like Pigs,' a destitute London family, deprived of its slum dwelling by a well-wishing leftist government, is forced to live in a decent house. Their resentment becomes ridiculous; with great perversity they do everything they can to get booted out, and then when the town finally decides to remove them they refuse to budge. Like pigs in the garbage they revel in their grunginess, literally embracing it in the form of its human embodiment, Big Rachel. Rachel is a pig of the first order: hideous to look at, faithless to her family, offensive to all.

How do I know about squalor? Arden's play, now enjoying its American premiere at the Boston Theatre Company, has been written off by irate leftists as an empty protest against the socialist tendencies of the British government. It reaches much, much more deeply than that, however. The playwright has presented man in his most elementary condition: stripped of all luxury and cultural pretensions, fighting for his life, for his right to women, and for nothing else, faithful to his instincts, to his emotions, and to nothing else. The Sawneys are nomads among human beings, trying to eke out from the face of their world what it owes them. We wonder whether any man is not just the same kind of happy-go-lucky riff-raff as Sailor Sawney or Big Rachel, but clad in richer clothes and more delicate

'LIVE LIKE PIGS', a play by John Arden; directed by David Wheeler; cast: Josephine Lane as Rachel, Naomi Thornton as Fosis Sawney, Anne Gordon as Sally, Paul as Sailor Sawney, Joseph Maher as Col. Frank Cassidy as the Official, Patricia E. Hall as Mrs. Jackson, Patricia Collinge as Doreen, John McLean as Mr. Jackson, Robert Fields as Blackmouth, Calo Churchman as Daffodil, and Bronia Stefan as the Old Croaker. Playing at the Theatre Company of Boston.

manners. Aside from this speculation the audience senses quite keenly the dilemma of the poor man: he has neither the education nor the desire to improve himself.

A significant feature of the play is the juxtaposition of the Sawneys and a family that pretends to considerably more decency: the Jacksons. Arden shows the clash between their ways of living, and we find the one dragging down and the other pulling up. 'Live Like Pigs' reveals his insight into the forces that influence society on a grass roots level. He dramatizes these forces in a rude, tragi-comic poetry that Shakespeare could never touch.

Unfortunately, the Cockney accent provided a major stumbling block for the actors, but acting ability in areas other than enunciation made up this lack. Bronia Stefan, as the Old Croaker, has a voice and accent all her own that needs no special tutoring. Paul Benedict playing Sailor Sawney handled the Cockney quite well, not to mention his superb feeling for the part as a whole. These two, the most admirable of all the characters from the viewer's standpoint, represent the last worthy survivors of the old 'nomadic' order that existed before the welfare state.

The rest of the company, though falling over the language, performed remarkably. 'Live Like Pigs' seems a tough bit to direct, but David Wheeler handled it as he always does: with a master's ingenuity. The stage setting done by Robert Allen, solved a number of problems in a manner both appropriate and unique.

MIT Concert Band returns from a successful intercession tour

By Julie Leverenz

What with four major concerts to play in four different cities, the M.I.T. Concert Band has spent a busy intercession. According to director John Corley, the busiest one of them, it was the best tour he has conducted. Stopping at Douglas College in New Jersey, Dickenson in Pennsylvania, and the University of Maryland, the band highlighted its tour with a concert at Town Hall in New York City. The audience of 200 included the composers of four works on the program and one or two newspaper reviewers.

The band, since it has come under the direction of Mr. Corley, has undertaken to encourage new compositions in the hitherto little-used medium of the symphonic concert band. The willingness which the M.I.T. band has attempted contemporary music has attracted such unsung writers as Nicholas Caiazza, Andrew Kazdin, and W. J. Maloof to lend the band their manuscripts. It is a courageous project. The avant-garde repertoire is not only tough to play but tends to limit the size of the audience.

The only fault one can find with the band's performances on tour is that frequently the instruments were out of tune with each other

and with themselves. Discordant music is no excuse for neglect of pitch. 'Unintentional dissonance' was most obvious in the woodwinds. Both the woodwinds and the brass, however, displayed remarkable technique and a true feeling for their parts.

Humanities Series gives fourth concert

The Contemporary Chamber Ensemble conducted by Arthur Weisburg will perform 'L'Histoire du Soldat' by Stravinsky and 'Pierrot Lunaire' by Schoenberg in Kresge Auditorium this Sunday, February 14, at 3:00 pm.

'L'Histoire du Soldat' was written in 1918 for a narrator and seven instruments. 'Pierrot Lunaire, op. 21', 1912, is a melodrama in the form of a song-cycle; it was written for a singing-speaking voice and chamber orchestra.

Tickets are \$2.50 and requests will be filled in order of their receipt. They should be mailed with a check and a self-addressed envelope to the Box Office, Kresge Auditorium, Massachusetts Institute of Technology, Cambridge Massachusetts 02139.

D. F. Nolan named LAC co-ordinator

D. F. Nolan '65, has been appointed National Youth Co-ordinator for the Liberty Amendment Committee of the USA.

The Liberty Amendment Committee, a San Francisco based organization, is a 4000-member group dedicated to passing a constitutional amendment which would require the Federal government to cease all business-like activities and would repeal the sixteenth (personal income tax) amendment.

The proposed amendment has already been passed by seven state legislatures — Wyoming, Texas, Nevada, Louisiana, South Carolina, Georgia and Mississippi.

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drama at mit...

'Firebugs': a study in indecision

By Sherry Gulmon
Max Frisch's "The Firebugs," presented by the MIT Community players at Kresge Little Theatre is a simultaneously scary and invigorating portrayal of the disaster that can arise from modern man's lack of moral decisiveness. Gottlieb Beidermann represents everyman. Engagingly played by Ray Lussier, he is a pompous middle class businessman, dedicated to his job, and easily frustrated by such things as the suicides of his employees and the nagging of his wife. His primary problem in the play is a couple of pyromaniacs who have been igniting all the best houses in town. They come to call on him. Joe Schmitz, portrayed by Tom Sheahan, is a hulking, clumsy working class type who displays a disgraceful tactlessness and sloppy manners. Ramon Scott, who plays his mentor, Willie Eisenring, is suave and sophisticated, with a sparkle in his eye and a taste for the finer things

of life. Throughout the first two acts, these two trip back and forth from the kitchen to the attic, chatting with the Beidermanns and fusing the wirings to several drums of gasoline. Needless to say, Herr Beidermann and his fluttery, thin-lipped wife Babette become increasingly more nervous, along with the audience who wonders why they don't just call the police. Finally the crucial night arrives, and Beidermann decides to have a dinner party in the hope that his guests will be distracted from their ominous intentions. Mrs. Beidermann observes that their goose is cooked, and Joe Schmitz sings dirty nursery rhymes while he gnaws on a drumstick. In general, the atmosphere is rather charged, but the climax comes when Herr Beidermann gives matches to the firebugs. After all, "if they really were firebugs, they would have their own."

After an intriguing series of stage effects to represent the burning of the Beidermann domicile, the city, and the world in general, the play ends with a drily humorous, pseudo-symbolic epilogue. It takes place in hell, and it is apparently an afterthought. Joe and Willie return as chief devils to give continuity to the action, and the Beidermann's sardonic maid, Anna, comes into the full flower of her glory as Beelzebub's private secretary merely by stealing a pair of nylon stockings. However, the epilogue is primarily a string of choice dialogue in which hell goes on strike because heaven gets all the really big names on their roster. It is enjoyable by itself, but does not have much to do with the point of the play. Frisch's real message is brought to the audience as much by the audience itself as by the players. Because of his moral weakness, Beidermann cannot acknowledge the existence of the menace of the firebugs because, by doing so, he obligates himself to making some form of decision about them. One is aware of Beidermann's problem from the very beginning, but helpless even to take a stand on it, because no one sees himself as a Beidermann and the problem becomes one of what to do about all the other Beidermanns in the world. This helplessness is reflected by the most entertaining instrument of the play, the chorus. Composed of two disreputable firemen, the chorus sits idly on a bench by the lamp-post waiting for something to happen so they can go into action. A sort of parody of the classic Greek chorus, they oscillate from homely wisdom to impassioned cliches about their vigilance, but they aren't much help. Max Frisch's play is about human frailty, and director William Harris does a good job of just managing to keep the frailty human. "The Firebugs" is light enough to be biting without being overwhelming.

MIT to start sensory aid center; Will benefit blind and deaf-blind

(Continued from page 3)
mer staff engineer with the Sensory Aids Group of the MIT Department of Mechanical Engineering. The actual purpose of the center is not merely to see if proposed devices operate properly, but rather, through experiments with blind and deaf-blind subjects, to determine whether the people for whom the devices are intended can use them satisfactorily and truly benefit from them. "Too often potentially fine devices and ideas are discarded for lack of adequate screening, testing and redesign," Mr. Dupress said. "It is this need we hope to fill." Among the items scheduled for early evaluation are a high-speed electric braille writer developed at MIT, computer programs that

convert typesetting tape into braille writing tape, collapsible canes, a tiny radio frequency compass, a hand-held inertial navigation system, and a beeping ball that blind children can play with by following its sound.

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Student Nonviolent Coordinating Committee to present jazz concert featuring Max Roach

Drummer Max Roach will lead his jazz quartet and the noted singer and movie star Abbey Lincoln in his 'Freedom Now Suite' Friday, February 19 at the New England Life Hall, 225 Clarendon St., Boston. Also featured on the program will be the Freedom Singers of the Student Nonviolent Coordinating Committee. The performance conducted for the ben-

efit of the Student Nonviolent Coordinating Committee in the deep south, will begin at 8:00 p.m. Donations range from two to four dollars. Advance tickets are available by calling 868-0939. This will be the first Boston performance of the 'Freedom Now Suite,' which was a hit at the Newport Jazz Festival last summer.

Movie Schedule

ASTOR — Pumpkin Eater, 9:30, 11:30, 1:30, 3:30, 5:30, 7:30, 9:30.
BACON HILL — Kiss Me Stupid, 7:05, 12:30, 2:45, 5:00, 7:15, 9:30.
BOSTON CINERAMA — Mediterranean Holiday, Wed. at 2:00; Sat., Sun., and holidays at 2:00 and 5:00; Mon. through Sat. at 8:30 pm. Sunday at 8:00.
BRATTLE — Olmi's 'The Fiances' plus short subject 'Chagall.' Shows daily 5:30, 7:30, 9:30; matinee Sat. 3:30.
CAPRI — 'Contempt,' 10:30, 12:25, 2:10, 4:05, 6:00, 8:00, 9:50. 'Mr. Magoo,' and shorts, 12:10, 2:05, 4:00, 5:55, 7:50, 9:45.
CENTER — 'Operation Snafu,' 11:20, 2:45, 6:15, 9:40; 'Conquered City,' 9:40, 1:05, 4:35, 8:00.
CINEMA, KENMORE SQUARE — 'Marriage Italian Style,' 2:10, 4:00, 6:50, 7:40, 9:30.
ESQUIRE CINEMA — 'Girl With Green Eyes,' 6:30, 9:45; 'World of Henry Orient,' 8:00.
EXETER — 'World Without Sun,' 2:15, 4:05, 5:50, 7:40, 9:30. 'Churchill's Funeral — A Nation's Homage,' 2:00, 3:45, 5:35, 7:20, 9:10.
FINE ARTS — 'Ballad of a Soldier,' 7:00 pm and 10:00 pm; 'Yolimbo,' 5:30, 8:45.
GARY — 'Mary Poppins,' 11:30, 2:00, 4:30, 7:00, 9:30.
HARVARD SQUARE — Through Sat. 'Mondo Cane,' 2:55, 6:25, 9:55; 'The Killers,' 1:20, 4:45, 8:05. Sun.-Mon.-Tues.: 'Giant,' 2:00 and 8:00; 'Youngblood Hawke,' 5:35 only.
KETH MEMORIAL — 'Malamordo,' 9:45, 12:45, 3:45, 6:50, 9:50; 'Two Living on Dead,' 11:05, 2:05, 5:05, 8:05.
LOEW'S ORPHEUM — 'Two on a Guillotine,' 11:25, 2:50, 6:20, 9:50; 'Blood Creatures,' 10:00, 1:25, 4:55, 8:25.
MAYFLOWER — 'Sex and the Single Girl,' 10:00, 1:35, 5:25, 9:10; 'Girl of the Night,' 12:00, 3:35, 7:30.
MUSIC HALL — 'Goldfinger,' 10:00, 12:00, 2:00, 4:00, 6:00, 8:00, 10:00.
PARAMOUNT — '36 Hours,' 9:45, 12:05, 2:30, 4:50, 7:10, 9:35. 'Wandering Wind,' 9:20, 11:40, 2:05, 4:25, 6:45, 9:10.
PARKS CINEMA — 'Seance on a Wet Afternoon,' 2:00, 4:00, 6:00, 8:00, 10:00.
PARK SQUARE CINEMA — 'Marriage Italian Style,' 2:10, 4:00, 5:50, 7:40, 9:30.
SAXON — 'My Fair Lady,' evenings at 8:30, Sun. at 7:30, mat. Wed., Sat., Sun., and Hol. at 2:00.

Theatre Schedule

CHARLES PLAYHOUSE — 'The Madwoman of Chailot,' by Jean Giraudoux; no times available.
THEATRE COMPANY OF BOSTON — 'Live Like Figs,' by John Arden; Tuesday through Friday at 8:30 pm, Saturday at 6:45 and 10:00 pm, and Sunday at 5:00 and 8:30 pm.

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Addresses alumni

Killian encourages educational reforms

Dr. James R. Killian, Chairman of the Corporation, recently addressed an alumni gathering on the need for educational reform.

His speech, delivered before the MIT Club of Central Florida, specifically dealt with a number of programs developed by Educational Services Incorporated, a non-profit organization of which Dr. Killian is the chairman. He stated that approximately 5,500 teachers are now using material from the Physical Sciences Study Committee high school physics course, which was developed under the sponsorship of ESI.

Dr. Killian further commented in this direction. "The success of PSSC demonstrated that curriculum reform was feasible, and

since it opened the way, groups of distinguished scientists and educators have developed programs in biology, chemistry, and mathematics . . ."

"Surely a good many of the standard texts that have been used in the elementary grades have served to do little more than take up time and to reinforce the views of some of the critics of our school system that we are 'fingerprinting out way to doom.' But during the past ten years we have demonstrated anew that intellectually rigorous education can begin in the earliest grades and that for a fact, it begins at home."

Social studies offer a different sort of problem. Dr. Killian stated

that ESI began three years ago to develop a comprehensive program in this area to run from kindergarten through the twelfth grade. He said that "Social studies has been an abstruse, unstructured amalgam of history, civics, sociology, geography, and what all, tied together by a wastebasket full of information discarded by the social sciences and humanities."

He also stated that further research and development are needed not only for revamping curricula, but also for finding ways to better educate our prospective teachers.

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Humanities Festival of Irish Arts includes drama, painting books

MIT will host an "Irish Arts Festival" February 12, 13, and 14, featuring lectures, one-act plays, and a preview showing of a yet-to-be-released film. The program is being sponsored jointly by the Humanities Department, the Course XXI Society, the Lecture Series Committee, and the American Committee for Irish Studies. Professor Emmet Larkin of MIT is coordinating the program's activities.

The festival opens this Friday evening at 8:30 in Kresge Little Theater with the presentation of three one-act plays. They are "Full Moon in March" by William Butler Yeats, "A Fourth for Bridge" by Denis Johnston, and selections from "The Voice of Shem" by Mary Manning. These three plays will be given again Saturday evening at 8:30. Earlier Saturday afternoon, at 3:00, John Kelleher, Professor of Modern Irish Literature and History at Harvard, will speak on "Da

Derga's Hostel' and James Joyce's 'The Dead.'"

Then at 2:30 on Sunday afternoon Russell B. Connor of Boston's Museum of Fine Arts will give an illustrated talk on "The Paintings of Jack B. Yeats." Fifty-two of Yeats' paintings have been on display in the Hayden Gallery since January 11 and will be there till February 17. Directly following will be a lecture by the Irish playwright and author Denis Johnston on Dublin's "Gate Theater." Closing the program Sunday evening at 8:00 will be a private preview of the film "Finnegan's Wake," produced and directed by Mary Ellen Bute. The film is based on Mary Manning's play "Passages from Finnegan's Wake," and will be shown in the main auditorium of Kresge Theater. The lectures and plays will all be put on in the Little Theater.

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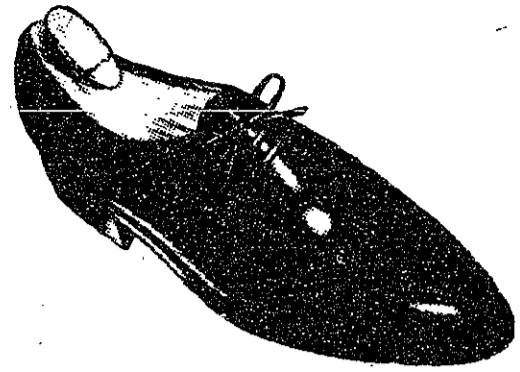
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Interviews March 4, 5

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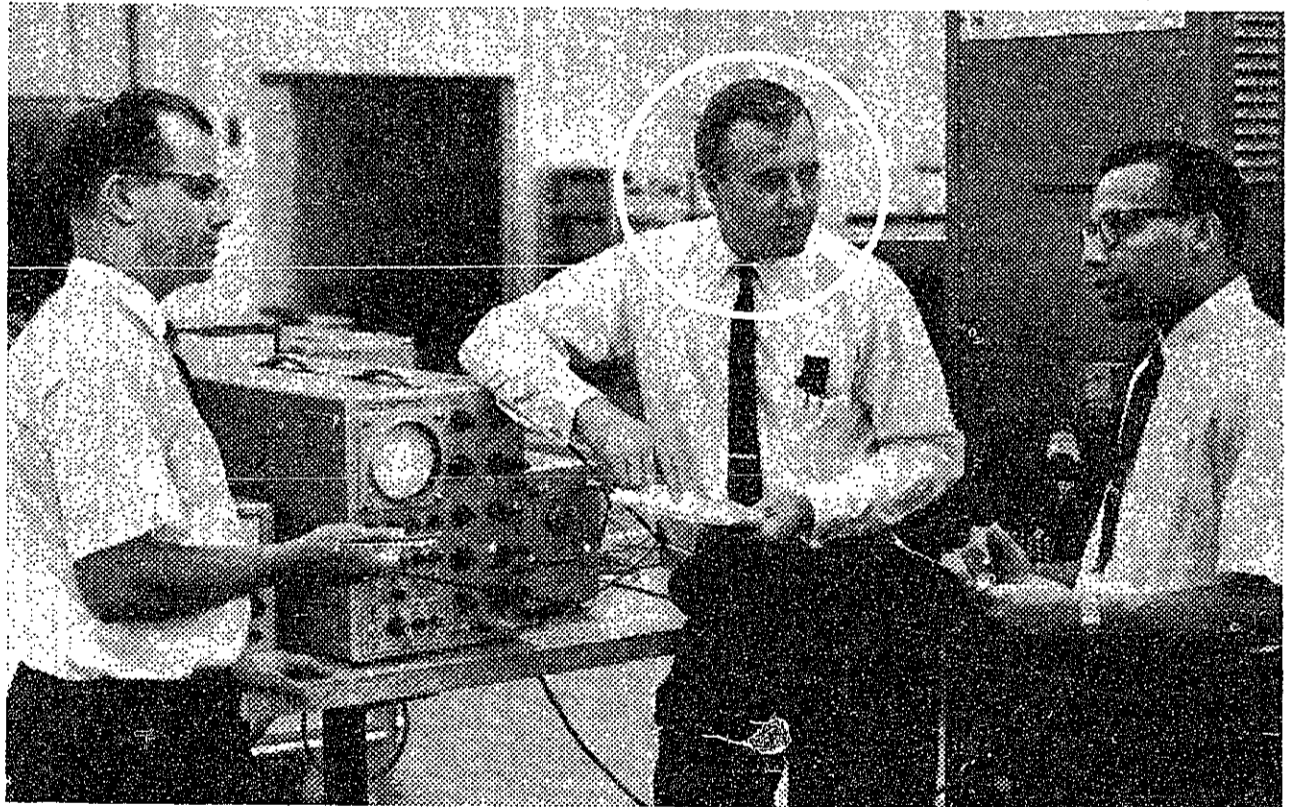
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MIT invited to enter cheerleader in Cypress Gardens beauty contest

MIT has been invited to enter its "prettiest" in the nationwide Miss Cheerleader USA contest, which is sponsored annually by Cypress Gardens and the Winter Haven (Fla.) Chamber of Commerce.

Last year's winner was Miss Jeanie Carroll of Indianapolis, In-

diana, who represented Indiana University. The winner the previous year, the first time the contest was held, was Miss Joyce Simpson of Arlington, Virginia, who represented the University of Houston.

Entries will be judged by photographs and a description of the girl. The five finalists will win an all-expense trip to Winter Haven, and the finals will be held at Cypress Gardens. The winner also will receive a scholarship from the US Cheerleaders Association.

Looking Back

Infirmary geography plagues Techman

10 years ago

During our struggles here at the Institute with the mighty forces of Nature, Fate, and Cum, we have come to look upon our body as resembling a machine which, if fed with gas and occasionally allowed to cool off for a while, keeps on working without further attention. We were therefore more surprised than worried when, a short time ago, we discovered our machine was slightly out of order, and in need of being laid up in the repair shop. . . . We had been told that the Infirmary was located on the third floor so we headed to the place on the third floor of Building 3 where the entrance should have been. It wasn't there. We were finally informed by a kindly janitor that to reach the Infirmary we must go down four floors to the Infirmary. The *raison d'être* of this particular quirk of Institute geography was not im-

mediately apparent, although we were to find it out later. . . . In past times, so we heard, the victims used to flee out of the Infirmary and into the third floor of Building 3. The sight of the patients running down the corridors and the nurses following with bullwhips was quite disrupting to diligent D11 students hard at work in the drawing rooms there, so the influence of the Graphics Department was applied and the connection between Building 3 and the Infirmary was permanently broken.

25 years ago

For many years the Lounger has heard about the ignorant, uneducated people in the South. These simple folk allegedly cannot write or even read their own names. Their intelligence some lecturers would imply is a nought. However, this is grossly wrong. Passing down through Georgia re-

cently the Lounger had occasion to note many of the shacks along the roadside and one in particular. As is the custom in these parts, one of the units of the house is usually set some distance behind the rest. And on this particular one was glaring evidence that the Georgian provincials are educated, since, for the edification of all passersby, the little house in the rear was plainly labeled in four large white letters, a foot high. . . . Efficiency.

50 years ago

The project announced in this issue of forming a Technology La crosse Team seems well worthy of trial. The game is increasingly popular among American colleges and is well adapted to the needs of Tech men in the way of exercise. If further argument for the project be needed, it is found in the opinion of Coach Kanaly, who is extremely well posted on the condition and needs of Technology athletics.

60 years ago

I WISH to communicate with young men that could accompany me next summer to the Klondike; I spent last summer there and own valuable interests; I can offer the opportunity of a lifetime to the right young men; they must furnish best of references, be physically robust and not afraid of labor, and have some money to invest.

75 years ago

Some time ago, when engineering was in its infancy, there were recognized only two kinds of engineers, viz., military engineers and civil engineers.

But the enormous development of industrial pursuits all over the world has been such that it is no longer possible for one man to be an expert in all the branches of engineering, and hence we now find the mechanical engineer, the mill engineer, the steam engineer, the marine engineer, the mining engineer, the hydraulic engineer, the electrical engineer, the chemical engineer.

President Walker has an article in the February Atlantic on Edward Bellamy and the Nationalist Party, in which the absurdities of a society founded on "Looking Backward" are clearly and wittily outlined.

Harper's
magazine
FEBRUARY

Why don't the students grade the teachers?

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Skiers defeat Army and Franconia Powell and Heacock out for season

The ski team experienced an early setback when Bruce Powell '66, a veteran jumper, suffered a broken leg the first day of practice. There was further consternation the next day when Gregg Heacock '67 fractured his foot on the 40 meter jump, also incapacitating him for the season. Despite the losses, the team is still 2-0 in dual meet competition.

In a practice meet with Franconia College, returning letterman and captain Stan Brown '65 finished first in the cross country followed by Ed Roberts '65 and

Pete Wessel '66 also of MIT. Franconia swept the downhill and Karl Kehler '65, with a third and second, respectively, was the only Techman to place in slalom and jumping. The final team scores were MIT 378.3 and Franconia 367.0.

Two days later at West Point, Roberts of MIT placed first in a deceptively difficult slalom followed by Stewart of Army and Kehler of MIT. In the downhill Stewart and Schofield of Army took first and third and Roberts of MIT placed second. In jumping Army again took first and third with Kehler of MIT second. Army took all three places in cross country. The depth of the MIT team however, enabled it to win 375.3 to 352.6.

Baker upsets Fijis

Intramural hockey playoffs still tight

All the undergraduate hockey championships were determined just before finals. In one of the most exciting games of the season, Lambda Chi Alpha upset NRSA by a tight 3-2 score, thus winning the League Three Championship. Another hotly contested game saw Delta Upsilon squeeze by Grad House 2-1. Phi Gamma Delta A and Theta Chi A, both undefeated, battled for the number one berth in League Two; Theta Chi carried the day with a

solid 3-0 win. Other league champions were Chi Phi, ZBT, Phi Kappa Theta, and Phi Gamma Delta.

In play-off action Phi Gamma Delta romped over Burton A 11-1, TC stomped DTD 10-2, and ZBT, led by Chuck Green's six goals, tromped Sigma Chi 7-1. In the roughest game of the year, Baker House shut out Phi Gamma Delta A 2-0; the game was marred by 10 penalties including three misconducts to PGD players Jay Howard, Don Schwanz, and Paul Trimmer; a league suspension was given to Howard. This surprising upset makes Baker a serious contender in the playoffs.

In the MIT Community League, Civil Engineering held onto its first place position by beating Beacon St. Athletic Club 5-3 last Sunday. Wayne Pecknold led Civil with two goals and superb defence, as Ron Parker threw in two goals for BSAC. In other action BSAC edged the Hot Shots 5-4, the Hot Shots surprised the Gaels 4-2, and Instrument Lab slipped past the Gaels as Van Wort pulled the hat trick for I. Lab.

Lambda Chi Alpha beat Sigma Phi Epsilon 4-1, but the game was

tied at 1-1 until late in the third period. McKay was particularly outstanding for LXA, scoring two goals and getting two assists. Chi Phi won by forfeit over Delta Upsilon, and Monday night Lambda Chi defeated NRSA 3-2 in overtime. NRSA was down two men on penalties.

Top IM Hockey scorers

Player, Team	Points
Jessiman, Theta Chi A	21
Smith, Theta Chi A	14
Bleyer, Chi Phi	13
Nessa, Pi Lambda Phi	12
Greene, Zeta Beta Tau	9
Silver, Pi Lambda Phi	8
Van Wort, Instrument Lab	7
Faneuf, Sigma Phi Epsilon	7
Everett, Burton A	7
Final Standings:	

League I—Community (not completed)

Team	W	T	L	for	agst.
Civil	4	0	0	17	10
Beacon	2	1	1	10	10
I. Lab.	2	0	2	14	12
Gaels	1	1	2	13	10
Hotshots	0	0	4	8	20

League II

Team	W	T	L	for	agst.
Theta Chi A	4	0	0	30	2
Phi Gamma Delta	3	0	1	17	5
Sigma Chi	1	1	2	8	15
Burton A	1	0	3	10	21
Senior House	0	1	3	6	20

League III

Team	W	T	L	for	agst.
Lambda Chi Alpha	4	0	0	7	3
NRSA	3	0	1	16	4
Delta Upsilon	2	0	2	8	10
Grad House	1	0	3	3	19
Sigma Nu	0	0	4	2	32

League IV

Team	W	T	L	for	agst.
Zeta Beta Tau	3	1	0	15	6
Baker	2	2	0	16	7
Sigma Phi Ep.	2	1	1	14	4
East Campus	1	0	3	5	23
Theta Delta Chi	0	0	4	1	19

League V

Team	W	T	L	for	agst.
Chi Phi	4	0	0	18	6
Pi Lambda Phi	3	0	1	18	6
Delta	1	1	2	3	12
Sigma	0	2	2	1	5
Phi Mu Delta	0	1	3	7	18

League VI

Team	W	T	L	for	agst.
Phi Kappa	3	0	0	10	2
AEPI	2	0	1	6	4
Alpha Tau	1	0	2	4	9
Phi Sigma	0	0	3	0	6

League VII

Team	W	T	L	for	agst.
PGD B	3	0	0	4	0
Burton B	1	1	1	4	3
Theta Chi B	1	0	2	2	5
Phi Kappa	0	1	2	1	4

Riflemen win fifth; Edge Northeastern

Tech's varsity rifle team increased its record to 5-1 by defeating Northeastern 1299-1282, January 15. As usual, Senior Jim Downward was MIT's best marksman, totalling 274. Dave Hamada '65 was the number two man with a 266 but was closely followed by Junior Steve Walther's 259. The other two team members, Jim Bridgman '65 and Karl Frederick '65, shot 251 and 249, respectively.

The Rifle team will host Brooklyn here this Friday and travel to the Coast Guard Invitational Saturday.

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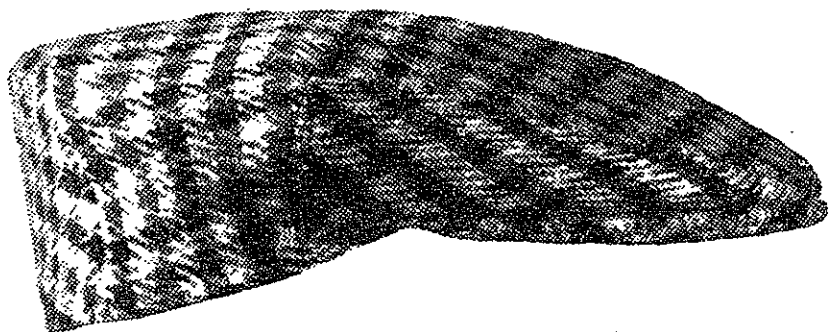
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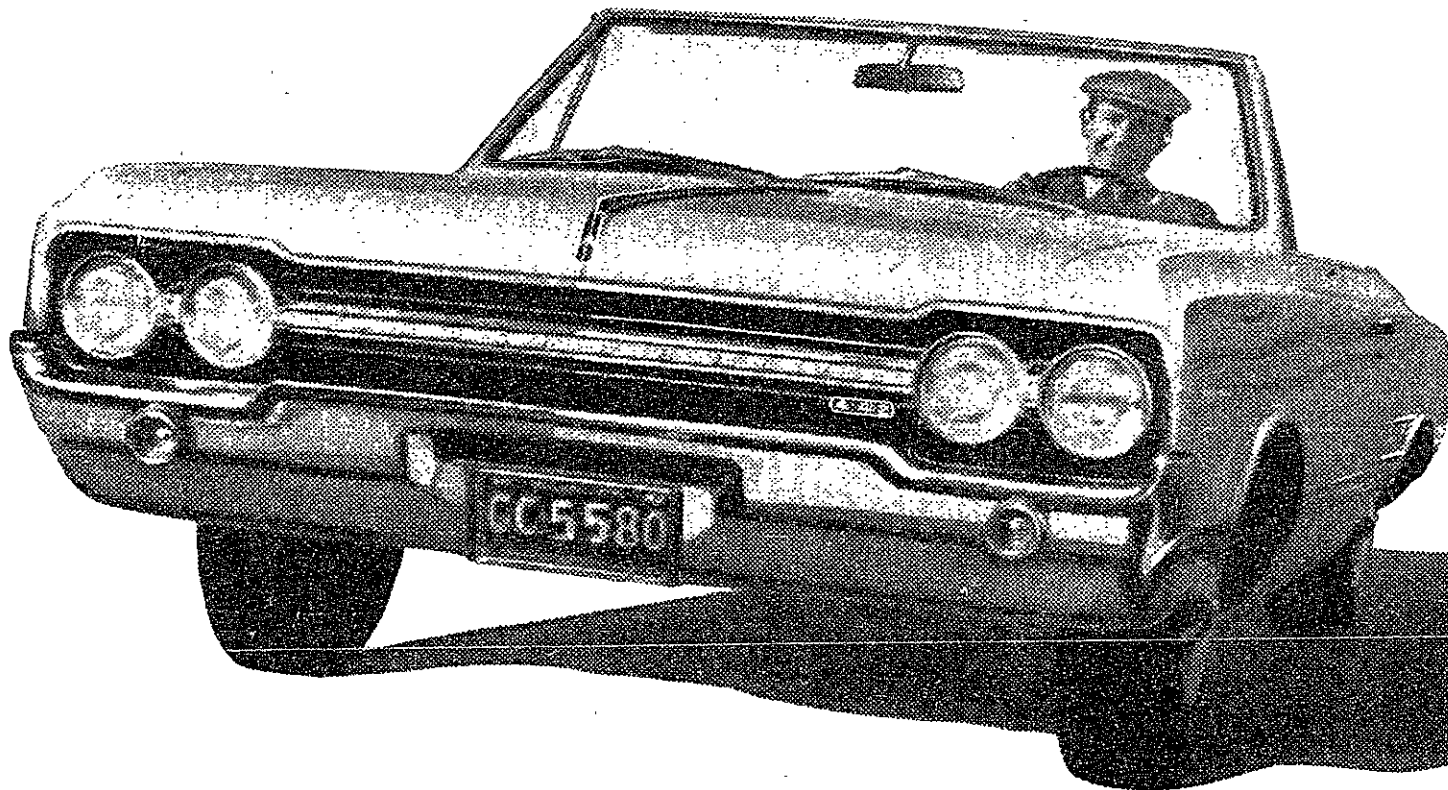
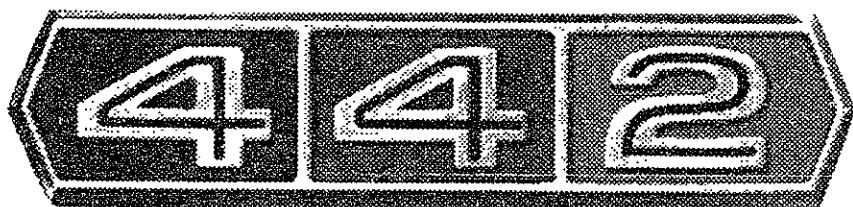
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MIT selected site of ZBT convention

Zeta Beta Tau has selected MIT to be the site of its annual Section IV convention on March 19-21.

The Convention, one of five sponsored by ZBT each year, will be attended by undergraduates and alumni from 19 chapters, led by Mr. Jack London, National President, and will include a Leadership School, a Business Section, a stag banquet and a dance.

The schools represented include Cornell, New York University, Penn State, Rensselaer Polytechnic Institute and Columbia University.

Physical Plant move completed last week

The Physical Plant completed moving its facilities to the new Administrative Office Facilities Building at Ames and Main Street last week.

The Mail Service will continue to operate from Room 24-117, the old Physical Plant Office, until its new facility in Room 24-007 is completed.

Information, Keys, and Lost and Found are now operating from E18 210 in the new office building.

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Sailors get 12 cups at NEISA fete

The most successful sailing team ever assembled by MIT received its due last Saturday when the New England Intercollegiate Sailing Association (NEISA) held its annual awards banquet. Starting with the Geiger Trophy, won in early April, 1964, this team won twelve major competitions, including the New England Dinghy Championship for the Coast Guard Bowl, and the New York Invitational Regatta for the Nevin's Trophy.

In other regattas, the Tech team placed second to the University of Rhode Island in the New England Sloop Championship and the New England Team Racing Championship, and finished third in the North American Dinghy Championship held in Vancouver, British Columbia.

The team members, led by Captain Terry Cronburg, '66, were

awarded charms by Leonard Fowle, Graduate Secretary of NEISA. Members of the team receiving the charms were, in addition to Cronburg, Don Schwanz, '66, Joe Smullin, '66, Dave Schlosberg, '64, Ed Shaw, '65, Mike Parker, '64, Fred Kern, '65, Tom Maier, '67, Chet Osborn, '67, Joe Ferriera, '67, Mike Zuteck, '67, and Rod Peterson, '67.

At the NEISA Annual Meeting, held immediately before the banquet, Terry Cronburg was elected Vice-President of NEISA, and Chet Osborn was elected to the NEISA Executive Committee. MIT delegates to the meeting were Prof. Alan Lazarus, faculty, and Commodore Ed Shaw, undergraduate.

The New England Women's Intercollegiate Sailing Association (NEWISA) held its annual meeting simultaneously with that of

the NEISA. Delegates from MIT were women's team captain Ruth Beckley, '67, who also serves as NEWISA schedule chairman, and Alix Bernstingle, '68. The newly formed MIT placed second in all competitions last fall except the last one, The Manlab Trophy, which they won.

The MIT Nautical Association has not been inactive this winter. A Wednesday night series of seminars is in full swing, with the next meeting, "Gov. Aids to Nav.", to be held February 10 in room 3-370 at 7:30 p.m. Plans are also in the works to hold an annual meeting in the near future.

Baker A takes IM bowling crown; Tops Phi Mu Delta by three points

Baker House A won the intramural bowling championship by a three-point margin over Phi Mu Delta A, as defending champ Sigma Phi Epsilon had to settle for fifth place. Consistent shooting by Baker House enabled them to hold their slim lead after pulling ahead with three weeks left in the season.

Morrison falls most pins Don Morrison '66, of Baker A, also took honors for most pinfall by edging out Phi Mu Delta's Carson Strong '68 4452-4441, even though they had identical 185 averages. Strong tied Oleh Tretiak of Senior House B for high three-game series with a 634 tally.

Phi Mu Delta also took honors for high team series with 1710, while third-place Alpha Tau Omega scored the highest team game with a 639. Charles Seniawski '65 of Phi Delta Theta rolled the best single game of the season with 256 effort, thus topping Morrison's 245 game.

Participation reached an all-time high this season. There were fifty teams entered from fifteen fraternities, the five dormitories, and three organizations. Two hundred matches were played by the 188 participants, who bowled a total of 3,253 strings, thus making the sport one of the biggest in terms of degrees of participation.

Intramural Results

Final bowling standings

	IM Points
1. Baker A	90
2. Phi Mu Delta A	72
3. Alpha Tau Omega	58
4. East Campus A	46
5. Sigma Phi Epsilon A	37
6. Burton I	31
7. Tau Epsilon Phi A	25
8. Baker B	19
9. Paradise Cafe	—
10. Senior House B	15
11. Burton III	12
12. Burton II	10
13. Lambda Chi Alpha	8
14. Baker C	6
15. Burton IX	5
16. Sigma Phi Epsilon B	4
17. Phi Gamma Delta	3
18. Zeta Beta Tau	3
19. Burton V	2
20. Baker D	2
21. Burton VII	2

Final bowling averages

1. Morrison, Baker A	185
2. Strong, Phi Mu Delta	185
3. Campbell, Fiji	182
4. Kadomiya, Baker A	177
5. Hedberg, Baker A	177
6. Kanstroom, TEP A	177
7. Dann, Senior House B	176
8. Watson, ATO	176
9. Marks, TEP A	174
10. Hollenbeck, ATO	174
11. Yeasley, Phi Mu Delta	173
12. Souk, SAE A	173
13. Hobbs, Paradise Cafe	173
14. Cosell, East Campus A	172
15. Tretiak, Senior House	171
16. Minnick, Burton I	171
17. Papenhausen, SPE A	171

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 Wrestling (V) — Amherst, Away, 8:15 p.m.
 Wrestling (F) — Amherst, Away, 6:30 p.m.
 Fencing (V) — Harvard, Away, 6:30 p.m.

Thursday, February 11
 Basketball (V) — New Hampshire, Home, 8:15 p.m.
 Basketball (F) — New Hampshire, Home, 6:15 p.m.
 Wrestling (JV) — Rhode Island College, Home, 5:00 p.m.

Friday, February 12
 Fencing (V) — Brooklyn College, Home, 4:00 p.m.
 Hockey (V) — Wesleyan, Home, 5:00 p.m.
 Rifle (V) — Brooklyn College, Home, 5:00 p.m.
 Ind. Track (V&F) — G.B.C.A.A. Meet, Away
 Skiing (V) — Norwich Carnival

Saturday, February 13
 Ind. Track (V&F) — G.B.C.A.A. Meet, Away
 Basketball (V) — W.P.I., Away, 8:30 p.m.
 Basketball (F) — W.P.I., Away, 6:30 p.m.

Wrestling (V) — Springfield, Home, 3:30 p.m.
 Wrestling (F) — Springfield, Home, 2:00 p.m.
 Swimming (V) — Trinity, Away, 2:00 p.m.
 Fencing (V) — Brandeis, Home, 2:00 p.m.
 Fencing (JV) — Norwich, Home, 4:00 p.m.
 Squash (F) — St. Paul's School, Away, 2:30 p.m.
 Hockey (V) — Bowdoin, Away, 4:00 p.m.
 Rifle (V) — Norwich, Home, 5:00 p.m.
 Skiing (F) — Lowell Tech Giant Slalom, Away

Sunday, February 14
 Skiing (V) — Norwich Carnival
 Skiing (F) — Lowell Tech Giant Slalom, Away

Monday, February 15
 Basketball (JV) — Quincy Junior College, Home, 7:30 p.m.

Tuesday, February 16
 Basketball (V) — Northeastern, Home, 8:15 p.m.
 Basketball (F) — Northeastern, Home, 6:15 p.m.

Skaters beat WPI 3-2, drop three

By John Kopolow

In its most frustrating game of the year the MIT varsity hockey team was crushed by Amherst on January 19, by the one-sided score of 13-0. Actually the difference between the two teams was not nearly so great, for both teams had nearly the same number of shots at the goal. This was just one game the skaters would like to forget.

More recently, the MIT Invitational Tournament began with the Beavers dropping a hotly contested struggle to Connecticut by the score of 8-4. The game was marked by many penalties, indicative of the fierce competition throughout the tournament.

Fall in 3rd period

For two periods Tech was the stronger team as they led 3 to 2 at the end of the second period. But in the opening minutes of the third and final period Connecticut slammed two goals into the nets, thus crushing Tech's spirit. Captain Hank Newell '65 picked up two goals for MIT; Sophomores Steve Queeney and Bob Smith got one each.

Top WPI 3-2

The following night the Beavers skated past WPI, 3-2. Despite playing rather sloppily, MIT went out in front early and remained in



Photo by Steve Teicher

Pete Catto '66 gets ready to fire at the University of Pennsylvania nets in a game played at the MIT ice rink last Saturday. Pennsylvania won 6-2, bringing the Techmen their sixth loss in eight games this season.

control throughout the game. Queeney accounted for two goals in the contest, and Bart Elmer '67 scored the third.

Hold Penn for 2 periods

The final game against the University of Pennsylvania was by far the roughest the Tech skaters have played so far this season. Penn was a substantial favorite

before the game, but it was evident in the early minutes of the first period that the Beavers were "up" for this contest. At the end of two periods MIT was tied 2-2 with Penn on goals by Queeney and Pete Getting '67.

Throughout most of those two periods players from both teams spent considerable time in the penalty box. Hostilities came to a climax late in the second period when a fight erupted between several members of the two squads. Tony Pasquale '66 of Tech and one Penn skater were ejected as a result.

This seemed to take the heart out of MIT, for Penn scored twice early in the third period and went on to win by a 6-2 margin.

This leaves the team's record at 2-6, already an improvement over last year's season and points toward better hockey fortunes in the future. This Friday the squad takes on tough Wesleyan on the MIT ice looking for their third victory.

How They Did

Basketball
 MIT (V) 94, Lowell Tech 69
 Tufts 78, MIT (F) 60
 MIT (F) 76, Lowell Tech 64
 MIT (V) 80, Iceland National Team 64
 MIT (V) 95, Johns Hopkins 53
 MIT (V) 86, N. Y. State Maritime 66
 MIT (V) 85, Merchant Marine Academy 78

Wrestling
 MIT (V) 24, Connecticut 10
 MIT (F) 29, Connecticut 5
 Wesleyan 23, MIT (V) 3
 Wesleyan 17, MIT (F) 9
 MIT (V) 21, Johns Hopkins 11
 Hofstra 19, MIT (V) 10
 MIT (V) 14, Kings Point 12

Squash
 Princeton 9, MIT (V) 0
 Navy 9, MIT (V) 0
 Phillips Andover 7, MIT (F) 0
 Phillips Exeter 7, MIT (F) 0

Hockey
 Vermont 5, MIT (V) 2
 MIT (V) 3, WPI 2
 Amherst 13, MIT (V) 0
 Connecticut 8, MIT (V) 4
 Pennsylvania 6, MIT (V) 2

Rifle
 MIT (V) 1299, Northeastern 1282

Pistol
 MIT (V) 2086, Merchant Marine 2152
 MIT (V) 2016, Penn Military Coll. 1850
 MIT (V) 2041, Rutgers 1982

Swimming
 MIT (V) 25, Amherst 69
 MIT (V) 56, Holy Cross 38
 Phillips Exeter 55, MIT (F) 40

Indoor Track
 MIT (V) 60, Columbia 53
 Columbia 59, MIT (F) 52
 MIT (V) placed 2nd in NEAAU

Crew
 MIT (V) defeated Florida Southern by 1/2 length
 MIT (V) defeated Rollins College by 2 lengths
 MIT (V) defeated Jacksonville by 1 length

Technical Writers Society, PiDE to sponsor technical essay contest

The Boston chapter of the Society of Technical Writers and Publishers and Pi Delta Epsilon, a national honorary journalism fraternity, are sponsoring a technical writing contest for the students of MIT, Boston University, Northeastern, Simmons, Tufts, and the University of Massachusetts.

The contest is open to students in these area colleges who are enrolled in a science or engineering curriculum. Each contestant

may submit one original paper of not over 1,500 words. Papers will be judged by STWP members on the basis of presentation, arrangement, clarity, value to the intended reader and proper technical writing techniques. Prizes include one fifty and two twenty-five dollars savings bonds.

The contest's deadline is March 1. Any student wishing contest information should contact Professor Robert Rathbone at his office, 14N-437.

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MARCH 1 and 2

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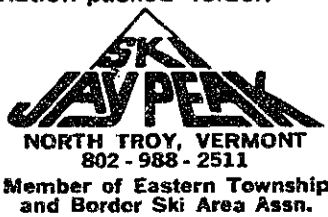
If you expect to be graduated before July, 1965, and would like to discuss your career interests with a Bethlehem representative, see your placement officer to arrange for an interview appointment—and be sure to pick up a copy of our booklet "Careers with Bethlehem Steel and the Loop Course." Further information can be obtained by writing to our Manager of Personnel, Bethlehem, Pa.

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9:00 A.M. to 1:00 P.M. Saturday

Squash team loses two matches; Drops shutouts to Navy, Princeton

By Mark Helfand
MIT's varsity squash team extended its winless streak to five games as it was whitewashed by both Princeton and Navy last week. The team's overall record is now 2-9.

Undeclared Princeton handed the Techmen a 9-0 defeat. Ted Cruise '65, in the number one po-

sition, was defeated 1-3 by Princeton's Svatic. Tom Guillermo '65 in the number two position and Ken Conroy '65 in the number three position were the only other game-winners for Tech. Each lost his match by the score of 1-3. Don Ward '65 returned after a case of appendicitis but was defeated 0-3 by nationally ranked Frank Satterthwaite.

The match at Navy was equally disastrous. Again the Techmen were defeated 9-0. Cruise lost his match 1-3 and Guillermo lost his 2-3. Ironically the only MIT victory was a 3-0 decision by Manager Mike Graham '65 in a special exhibition match.

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Bell System interviews

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Frosh sports

Wrestlers smash UConn 29-5, fall to Wesleyan

By John Kopolow

The MIT freshman wrestling squad had little difficulty in defeating the University of Connecticut, totalling 29 points to U. Conn's 5. Tom Garvey was the only Techman to lose his match as he was pinned in the unlimited weight class by an opponent who outweighed him by 30 pounds. In the 137 lb. class Jack Woo won by forfeit, and Steve Bishko (130 lb.), Norm Hawkins (147 lb.), and John Fishback (157 lb.) each pinned his opponent. Steve Reimers (177 lb.) easily won a decision, 7-1. Tom Lang (123 lb.) and George Smith (167 lb.) also outpointed their men.

Against a much tougher team from Wesleyan University the frosh did not fare so well. Although MIT lost by a 17-9 score, each Tech grappler fought gamely as only one man was pinned. The three MIT men who picked up decision victories were Steve Bishko (130 lb.), Norm Hawkins (147 lb.), and John Fishback (157 lb.).

Grad Econ IM champs; Baker tops Undergrads

For the second consecutive year, Graduate Economics Association is the intramural basketball champion. In addition, Grad Econ accomplished this feat with an undefeated season. Second place went to Grad Management Society, whose only losses of the season were to Grad Econ. Since only undergraduate teams receive IM points, Baker A was given the largest total of points.

Final Standings

1. Grad Economics As.	140
2. Grad Management Society	117
3. Political Science	97
4. Baker House A	81
5. Sigma Alpha Epsilon	67
6. Lambda Chi Alpha A	56
7. Senior House A	47
8. Burton House A	39
9. Chem Department A	39
10. Phi Mu Delta	39
11. Grad House A	39
12. Theta Chi A	22
13. Westgate	18
14. Nuclear Engineering	15
15. Sigma Phi Epsilon A	
16. Sigma Alpha Mu	
17. Zeta Beta Tau	
18. Burton House B	
19. Pi Lambda Phi	
20. Delta Upsilon	

Swimming

Despite outstanding efforts by a few MIT swimmers, the frosh were beaten by a well-balanced Phillips Exeter team, 55-40. The two squads actually took an equal number of first places, but the superior depth of Exeter enabled them to capture far more seconds and thirds which accounted for the fifteen point margin.

Larry Preston turned in the most brilliant performance for the Tech frosh as he broke his own record for the 100 yd. breast stroke. His time of 1 min. 7.9 sec. cut 1.3 sec. off his old mark. Dan Gentry and Fred Solomon took the first and second spots in diving just as they have done in every meet so far this year. The 200 yd. medley relay team of Brandon, Preston, Gardner, and Toth won again, as did Winston Gardner in the 200 yd. individual medley and John McFarren in the 100 yd. free style.

Track

The frosh indoor track squad was nosed out by Columbia by the score of 59-52. Tech's outstanding performer in the field events was Steve Sydorik, who won the high jump with a leap of 5 ft. 2 in. and the pole vault by vaulting over the bar at 12 ft. Larry Dehner captured the 35-pound weight event with a distance of 40 ft. 6 1/4 in. and came in second in the shot put.

In the running events Tom McGovern led the way by winning the 45-yard low hurdles in 5.9 sec. and the 45-yard high hurdles in 6.6 sec. Long-distance man, Dan Hoban, finished second in both the one and two mile runs. The trackmen hope to get back on the winning track next Wednesday against Governor Dummer Academy.

Basketball

The fortunes of the freshman cagers was no better as they suffered a 78-60 loss to Tufts. The loss was their fourth in six games. The main reason for the defeat was poor shooting, some-

thing which has not plagued the frosh in the past. They hit on 39% of their field goals and only 46% of their foul shots.

Although he led the team with 14 points and 7 rebounds, forward Dave Jansson was far below his season's average in both departments. Guard Dave Altman was also off form scoring eleven points; fellow guard Steve Derodeff had nine. The one bright spot was the return to action of Dan Greene, who, though out with an injury all year, scored eight points in his first game. The lay-off due to exams behind them, the frosh will try to get back in the win column tomorrow against New Hampshire.

Squash

The freshman squash team is still looking for its first victory of the season after losing decisively to both Phillips Andover and Phillips Exeter. The frosh could not salvage a single victory in either meet. They will be looking for a change of fate in their next meet Saturday against St. Paul's.

MDC head adds fuel to sycamore argument

A new battle may be pending in Cambridge's world-famous Battle of the Sycamores.

Howard Whitmore, Jr., recently-appointed head of the Metropolitan District Commission wants to take a close look at the situation on the Cambridge bank of the Charles River before he holds up the \$7 million underpass project which would destroy the renowned Cambridge sycamores along Memorial Drive.

Said Mr. Whitmore, "I intend to look into this thoroughly before taking any action one way or the other." This definitive statement has added even more fuel to the fires which have kept the momentous conflict over the dying sycamores going for more than a year.

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Crane sets record

Mermen defeat Holy Cross, 56-39

By Cassius Peacock
The Tech mermen met and beat Holy Cross by a score of 56-39 last February 4th, sparked by Mike Crane's record-breaking :23.2 victory in the 50-yard freestyle. Crane also split in the final relay the fastest 100 MIT has ever seen, :51.4. This promising young sophomore sprinter has the perseverance and ability to be one of the fastest sprinters in the N.E.I.S.A. Watch him!

An outstanding performance was also delivered by John Wrigley '67 who split :53.6 in the medley relay against Amherst Saturday, bettering his previous best time

by almost five seconds. Eric Jensen '65 broke 2:20.0 in the individual medley Thursday against Holy Cross, missing the varsity record by a little over a second.

A very tough Amherst proved too much for Tech in the meet Saturday; the final score was 25-69.

The team has suffered greatly by the loss of its diver Steve Snover '65 and absence of sprinters Sandy Blanchard '65 and Dick Breinlinger '66 from the mid-term training session. These setbacks combined with disappointment over the lag of improvement has hurt team strength and morale,

but the maintenance of the determination the team has shown during the past two seasons could bring about surprising results in the next several weeks.

The NEISA Championships will be held here at MIT March 19th and 20th, and the varsity should place the medley relay in the top three finishers and several individuals in the finals. Many records are expected to drop before the championships, including the already broken 50-yard freestyle and 200-yard individual medley records held by Mike Crane and Bill Brody '65, respectively.

In short, a big storm is gathering and on the point of springing from the current lull. The first victim of this impending cataclysm may very well be Trinity College, whom the varsity meets Saturday, February 13th at Trinity.

Wrestlers trounce Connecticut; Wells only winner vs. Wesleyan

By Dave Chanoux

Tech's varsity wrestlers went 3-2 over vacation to bring their season record to 5-3-1. Tuesday, January 12, they beat Connecticut 24-10, but lost the following Saturday to Wesleyan by a 23-3 score. On the road during vacation they stopped Johns Hopkins 21-11, edged Kings Point Academy 14-12, but lost to Hofstra by a 19-10 score.

The Huskies from UConn jumped off to a 10-0 lead by winning the first two matches. Andy Junker pinned MIT's Ed Tripp '67 in the second period. Norm Manning followed with a pin of Leroy Blankenship '67.

Chip Hultgren '67 put MIT on the scoreboard by winning a 4-0 decision over Ernie Senf. Whitney Whiteman '66 closed the score to 10-8 by pinning Bruno West in 1:48. Lou Poulo '65 followed with another pin over Leon Feld in 2:46 to put MIT ahead for the first time.

With the score 13-10, UConn hoped for a win from Denny Walsh against MIT Captain Bob Wells '65. In a fast moving first period, Wells managed a take-down to hold a 2-1 lead. The second period opened with Walsh up. But Wells reversed and pinned

his opponent to put MIT in a commanding lead, 18-10.

Landers and Nygren win
Al Landers '67 added to the lead by winning a 5-4 decision over Lee Havis in the 177-pound class. Dick Nygren '66 put the victory away with a 4-0 decision over Doug Sherraro.

Saturday Wesleyan opened by winning two close decisions. Reed won over Larry Silverman '67 6-4 and Gray beat Chip Hultgren 3-2 to give Wesleyan a 6-0 lead.

Reed followed by pinning Whiteman in 3:43. McCagiee made the score 17-0 by winning a 3-1 decision over Lou Poulo.

Bob Wells scored the only MIT points for the afternoon by winning a 4-3 decision in the 167 pound class. Wesleyan came back to win the next two decisions to run up the final score.

Johns Hopkins stays close
The match with Johns Hopkins was close until the final two matches, in which 177-pound Dave Schramm '67 won by a pin in 4:27 and Dick Nygren '66 won a 4-2 decision at heavyweight. Bill Thilly also won by a pin at 157 in the time of 4:22, while Tim Connelly '66 posted an 11-1 decision and John Reynolds '67 won by a forfeit at 123.

In the loss against Hofstra the following day, Captain Bob Wells '65 won by a pin at 167, heavyweight Nygren took a 3-0 decision, and Connelly gained a 3-3 decision on riding time for MIT's points.

Merchant Marine takes four
The match against the Merchant Marine Academy at Kings Point looked like a disaster for the Engineers after the first four matches and half the match was over, with the score standing at 12-0. But the Techmen came storming back with three decisions and a pin for a 14-12 win.

Thilly started things rolling at 157 with a 4-2 decision; then Captain Wells spelled the difference by pinning his man in 4:28.

Nygren wins third straight
Schramm then picked up a 6-2 decision, and Nygren won his third straight match and wrapped up the meet with a 3-0 decision.

IM volleyball begins; Play opens Sunday

The intramural volleyball season will kick off another winter of play next Sunday, February 14, with 12 games on the Armory courts that afternoon. Club Mediterinee will be seeking their eighth straight championship and are favored.

This year the sport is organized into five major leagues and eight minor with 76 teams participating in all.

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Discuss opportunities with members of STL's technical staff on campus February 23, February 24, and February 25

If you are receiving your M.S. or Ph.D. during 1965, we invite you to join this select group, which is working on projects such as Pioneer, Orbiting Geophysical Observatory (OGO), nuclear detection satellites, and variable-thrust descent engines for Apollo and Surveyor lunar landings. You will find exciting and creative assignments at TRW in the area of your major discipline. Investigate one or more of these fields: Theoretical Physics, Systems Engineering, Radar Systems, Experimental Physics, Applied Mathematics, Space Communications, Space Physics, Antennas and Microwaves, Inertial Guidance, Analog Computers, Solid State Physics, Computer Design, Telecommunications, Digital Computers, Guidance and Navigation, Electromechanical Devices, Engineering Mechanics, Applied Aerodynamics and Propulsion Systems.

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TRW SPACE TECHNOLOGY LABORATORIES
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Basketball team wins four; runs season record to 10-3

By W. Thomas Compton

The basketball team is now 10-3, not including a victory over the Iceland National Team. After the Iceland game, they won three games in three days over the semester break. Iceland went down 80-64, Johns Hopkins got creamed 95-53, New York State Maritime College was beaten by an 86-66 count, and the Merchant Marine Academy at Kings Point was shaded 85-78.

Iceland lightweight

MIT had Iceland going from all directions in the first half. Iceland's players all could have used an extra 15 or 20 pounds and it showed on the boards. They couldn't rebound and they couldn't shoot, and there isn't much left in basketball. It was 13:46 left in the half before Gut-tormur Olafsson pumped in Iceland's first field goal.

Subs play second half

It was 45-26 at the half and that was the game. Captain Bob Grady '65 had 24 points and Jack Mazola '66 had 20. Bob Hardt '67 got 14 as all 3 outscored Iceland's top duo of Einar Bollason and Olafsson with 11 each. The second string played the second half

and played on even terms with the visitors from Arctic.

Johns Hopkins close at half

Johns Hopkins wasn't up to its usual strength this year to say the least, they have only won two games. They got an idea of what was to come when Alex Wilson '67 sunk a free throw to give MIT a permanent lead at 25-24 with 5:24 left in the half. Then they reeled off 9 more without return and went to the dressing room with a 40-35 advantage.

23 Straight

For a seven minute stretch in the second half the Engineers spun off 23 straight and broke the game wide open. Then with 4:40 remaining Coach Barry jerked the regulars with the score at 91-49. The substitutes could only get 4 more points, not enough to reach the century mark, but enough to set a season high. The previous high had been 94 against Lowell Tech.

Mazola hits 21

Mazola was high point man with 21, followed by Grady's 18, Hardt's 17 and Wilson's 16. Schwärzfeier was high for Johns Hopkins with 11.

Fantastic foul shooting

The Beavers completely over-

powered their opponent for the second night in a row in dumping the Maritime College 88-66. Both teams shot 36% from the field but MIT had a great night from the foul line shooting 30 of 33 for 91%. Even Bill Bradley would be proud of that.

Kinsella hits 14

MIT dominated the boards, or maybe Maritime hadn't heard of rebounding, but anyway MIT pulled down 20 more than the opposition and got away 11 more shots. Maritime's Cooper scored 18 for game honors, but Hardt was high man for Tech with 16 and Kevin Kinsella '67 came in off the bench to score 14.

Kings Point powerful

Kings Point was a 14 point favorite going into the game. They had only lost 3 games including Springfield and a 5 pointer to Hofstra. So the win was a big feather in MIT's cap.

Tie at 1:10 to go

MIT had to do some real fancy shooting to win—67% worth. They were outrebounded and had to make every shot count. It was a real close game, it was tied with 1:10 to go. Then with 40 seconds to go MIT put together a 3 point lead and Kings Point had to foul to get the ball. MIT sunk all four free throws for the final seven point margin.

Hardt shoots 75%

One foul was a forearm thrown into Mazola that got the opponent removed from the game. Mazola was high scorer with 29 and Hardt shot 75% from the field and wound up with 23.

The rest of the schedule is hard going. The New Hampshire game Thursday promises to be a tough one. New Hampshire is one of the more powerful teams in the East. And Worcester Polytechnic Institute is always tough on their own floor. The last time MIT beat them at Worcester was 2 years ago, 88-85. But it took a 38 point effort by Kent Groninger, now an assistant coach, to do it.

Northeastern is one of the big powers in the East and has been for a few years. They were invited to the NCAA tournament the last three years.

Upcoming games

- Thurs. 11—New Hampshire Home, 8:15 PM
- Sat. 13—WPI, Away, 8:30 P.M.
- Tues. 16—Northeastern Home, 8:15 PM
- Fri. 19—Coast Guard Home, 8:15 PM
- Sat. 20—Middlebury Home, 8:15 PM
- Fri. 26—Pratt, Home, 8:15 PM
- Sat. 27—Bates, Home, 8:15 PM

MIT	fga	fg	fta	ft	reb	pf	pts
Wilson	8	2	0	0	19	5	4
Hardt	14	6	4	2	13	4	14
Mazola	13	8	4	2	2	2	20
Grady	20	9	7	6	5	1	24
Yin	8	3	0	0	2	3	6
Talus	8	1	2	2	1	0	4
Jerrell	1	0	1	0	2	2	0
Flick	2	1	0	0	1	1	2
Baxter	0	0	0	0	1	0	0
Larsen	0	0	0	0	0	0	0
Kinsella	0	0	2	2	0	0	2
Shoemaker	4	1	1	0	2	0	2
Douglas	3	1	0	0	2	0	2
Ferrara	1	0	0	0	0	0	0
Total	83	32	21	16	50	18	80

Iceland	fga	fg	fta	ft	reb	pf	pts
Bollason	4	1	3	1	11	3	2
Stefansson	1	1	1	1	3	1	2
Gunnarsson	1	1	1	1	3	1	2
Helgrimmsson	1	1	1	1	3	1	2
Olafsson	2	2	0	0	4	1	4
Bjorg	2	0	0	0	4	1	0
Thorlacius	0	0	0	0	2	0	0
Hansson	0	0	2	2	2	0	0
Finsson	0	0	0	0	2	0	0
Palsson	1	0	0	0	2	0	0
Jonasson	0	0	0	0	2	0	0
Ingolftsson	2	2	2	2	6	1	6
Total	17	11	11	11	45	11	45

MIT	fga	fg	fta	ft	reb	pf	pts
Iceland	26	38	—	64	—	—	—
Wilson	9	4	9	8	11	3	16
Hardt	13	7	5	3	20	3	17
Mazola	14	8	6	5	6	0	21
Grady	12	5	9	8	5	1	18
Yin	8	2	2	1	3	3	5
Talus	2	2	2	1	3	2	5
Jerrell	1	0	1	0	3	2	0
Flick	5	3	0	0	0	0	6
Baxter	0	0	1	0	1	0	0
Larsen	2	0	0	0	1	1	0
Kinsella	0	0	0	0	1	0	0
Shoemaker	0	0	0	0	2	2	0
Hinrichs	0	0	2	2	0	0	0
Douglas	2	1	0	0	1	0	2
Ferrara	0	0	0	0	2	0	0
Total	68	32	40	31	57	16	95

Johns. Hopkins	fga	fg	fta	ft	reb	pf	pts
Smith	9	1	4	3	4	4	5
Huston, Al	7	2	7	3	2	4	4
Schwärzfeier	14	5	11	11	3	4	11
Sherman	10	1	1	0	5	2	2
Mahan	10	4	1	1	4	2	9
Gaebe	8	4	1	1	5	2	9
Wolff	6	3	0	0	4	4	6
Moore	3	1	0	0	0	4	2
Huston, Otis	4	1	0	0	4	0	2
Levinson	2	0	2	0	0	0	0
Total	73	22	17	9	31	25	53

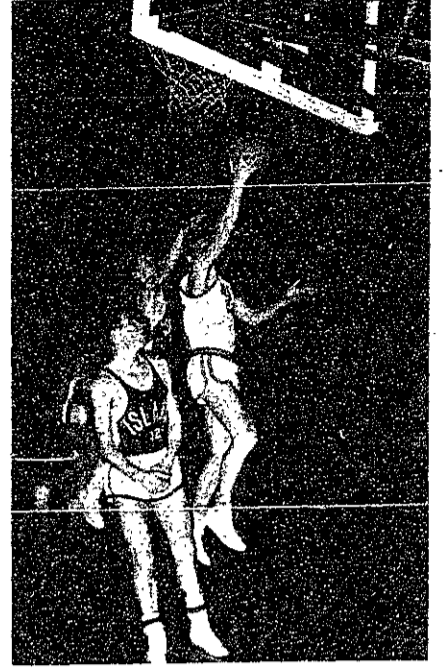


Photo by John Torode

Roy Talus '67 goes up for a shot as Einar Bollason vainly tries to block the shot. Jon Jonsson watches the action.

MIT	fga	fg	fta	ft	reb	pf	pts
Wilson	9	4	2	2	7	3	10
Hardt	9	7	2	2	10	2	16
Mazola	12	3	2	2	3	1	8
Grady	11	5	3	2	6	2	11
Yin	5	3	2	2	2	2	6
Talus	5	3	2	2	4	2	6
Jerrell	3	0	0	0	4	3	0
Flick	2	1	3	2	2	2	4
Baxter	0	0	2	2	2	1	0
Larsen	1	0	0	0	0	0	0
Kinsella	11	3	10	8	8	0	14
Shoemaker	15	0	0	0	1	1	0
Hinrichs	1	0	2	2	2	1	2
Douglas	1	0	2	2	2	1	2
Ferrara	2	0	2	2	1	2	2
Total	78	28	33	30	54	23	86

Maritime	fga	fg	fta	ft	reb	pf	pts
McIntosh	4	2	5	0	10	4	4
Cooper	15	7	9	4	9	3	15
Selms	12	5	3	2	2	4	11
Friedauf	14	7	4	3	1	5	17
Fisher	9	2	2	2	3	2	6
Gilligan	0	0	0	0	0	0	0
Deveau	4	1	2	0	4	3	2
Mazzuca	5	0	5	5	2	2	5
Bryar	3	1	0	0	2	0	2
Stern	1	0	2	1	1	0	1
Groppe	0	0	0	0	0	0	0
Total	67	24	34	18	34	23	66

MIT	fga	fg	fta	ft	reb	pf	pts
Wilson	4	2	5	5	8	4	9
Hardt	12	9	7	5	9	4	23
Mazola	14	8	16	13	4	2	29
Grady	6	4	6	4	2	4	12
Yin	9	5	5	2	5	4	12
Jerrell	0	0	0	0	0	1	0
Total	45	28	39	29	28	19	64

Kings Point	fga	fg	fta	ft	reb	pf	pts
Tompkins	12	5	2	1	5	5	11
McKay	10	4	1	1	10	4	9
Lavine	14	7	8	8	13	5	22
Kahn	8	2	0	0	2	2	4
Boyle	19	4	3	2	2	4	10
Ritsch	7	2	7	4	1	3	8
Wrona	6	2	0	0	2	1	4
Trahan	10	5	3	0	8	5	10
Lampland	2	0	0	0	0	0	0
Total	88	31	24	16	42	29	78

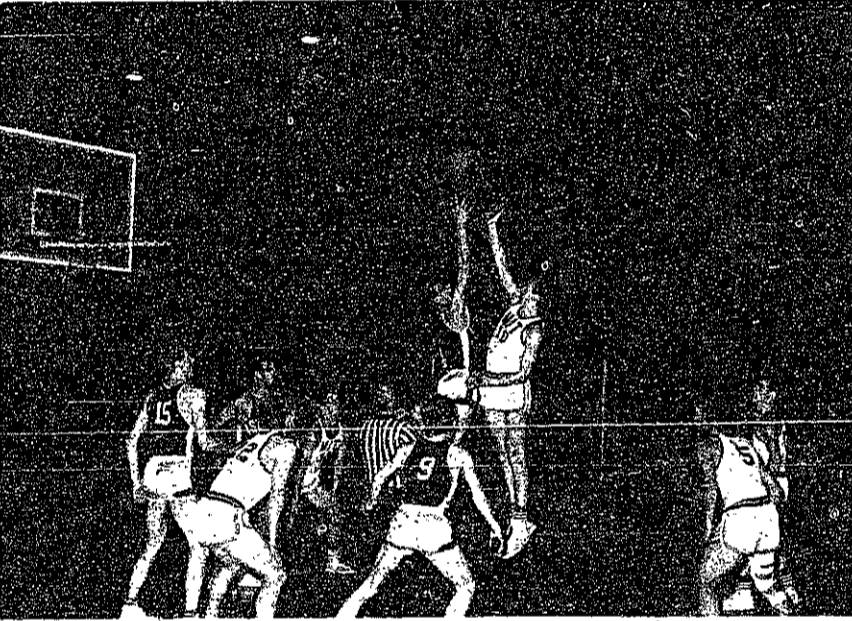


Photo by John Torode

Bob Hardt '67 goes up to tip the ball in the second half of the Iceland game. Greg Jerrell '67 (32), Roy Talus '67 (22), Frank Yin '65 (5) and John Flick '66 await the outcome. MIT stomped Iceland 80-64 to win their eleventh game.

Second in NEAAU

Trackmen top Columbia

The MIT varsity track team continued its winning ways by taking the first MIT win ever scored over Columbia by a score of 60-53. In the highlight of four meets run over vacation, the team took two firsts and second place over-all in the New England AAU meet held at MIT February 3.

Sweep hurdles

The big point-scoring against Columbia was done in the 45-yard high and 45-yard low hurdles, which saw Al Tervalon '65 take first, Terry Dorschner '65 second, and Captain Ken Morash '65 third in both events. Morash also took the pole vault with a 12'-6" effort.

Sumner Brown '66 picked up first in the 1000-yard run with a time of 2:21.1 and then came back to finish second in the mile. Joel Rogers '66 won the 600 in 1:17.0, while Rex Ross '65 took the broad jump with 22'-1", and Tom Jones '66 won the high jump with a 6'-2" leap.

2nd in NEAAU

The Tech runners showed good strength in finishing 2nd to Harvard's 23-point total by tallying 13½ points. The big winner for MIT was Ken Morash with a first in the pole vault gained on a 13'-6½" effort, which gave Morash a new MIT varsity and Rockwell Cage record. Freshman

Steve Sydoriak was fourth in the event with a new frosh record of 12'-9¼". Brown took the 1000 against a classy field by turning the distance in 2:21.0. Dorschner finished fifth in the finals of the 45-yard high hurdles, and Bob Dunlap '67 ran his fastest time yet in finishing 3rd in his heat in the 600 in 1:18.5.

Brown 3rd at BAA

In the Boston Athletic Association games at Boston Garden held January 30, Sumner Brown scored a third in the New England College 880 with a 1:58.2, and Bill Purves '65 finished third in the handicap one-mile walk. At the Knights of Columbus meet, Ken Morash took 2nd in the pole vault behind Dave Tork, and the mile-relay team picked up third place.

Bhotiwihok named as All-American; Will lead Tech soccermen next fall

Although MIT's varsity soccer team finished with a worse than .500 record (4-6-1), at least one individual had an outstanding season. Savit Bhotiwihok '66 brought a good measure of prestige to Tech's team by being named honorable mention All-American.

Savit saw duty at both Right Fullback and Right Halfback last season, receiving the All-American honors for his play at Right Fullback. He has been a regular both of the past two seasons and has been named captain of next year's team. He first starred in soccer at his high school, St. Joseph's College in Naini Tal, India.

Tech's soccer fortunes seem to be looking up. Next year may well bring us both a winning season and a full-fledged All-American.

Florida "vacation"

Crew wins three races

While the rest of us were suffering through the cold, wet Boston weather the last week, members of the varsity crew team were enjoying themselves in sunny Florida as the guests of Rollins College in Winter Park. Using shells provided by Rollins—but their own oars—the Techmen won all three races they participated in.

The three races scheduled were against Florida Southern on Wednesday, February 3, at Lakeland; against Rollins on Friday at Winter Park; and against Jacksonville at Jacksonville on Saturday the 5th. The Techmen did themselves proud, taking two of the three with considerable ease.

The crew members left Boston Friday, January 29, and arrived

at Rollins on Saturday. Their first practice took place Sunday afternoon.

The first race against Florida Southern was by far the hardest of the three. Florida Southern pulled out to an early lead, but MIT came back to grab the lead by one length during the body. Florida Southern far from gave up, however. They gained a half-length during the sprint but were still half a length behind at