

No details given

# Pass-fail motion defeated

By Carson Agnew

The Tech has learned that the Faculty Committee of Educational Policy has decided against implementing pass-fail grading for the freshman year. They have decided, instead, that the freshman year programs deserve a more basic consideration, and that an effort to improve these will do more to improve the quality of instruction than elimination of grades.

Details scarce

However, when The Tech attempts were made to find more details on the nature of the decision itself, and further action by the CEP, members of the Committee were reluctant to speak. Chairman Walter Rosenblith was unwilling to make any statements at this time, and several other

members showed similar reluctance.

Several plans had been presented to the Committee by the Student Committee on Educational Policy. These included 1) issuing no grades, but simply giving an oral evaluation of the freshman's work, 2) maintaining the present quiz structure, but merely recording a pass or a fail at the end of the year, and 3) maintaining the present system of grades (A, B, C, D, F, etc.) but not entering these on a permanent record. This last represents essentially the plan now used by Caltech. Yale University has also recently announced a plan to issue pass-fail grades for their freshmen.

Personal opinion expressed

One member of the Committee

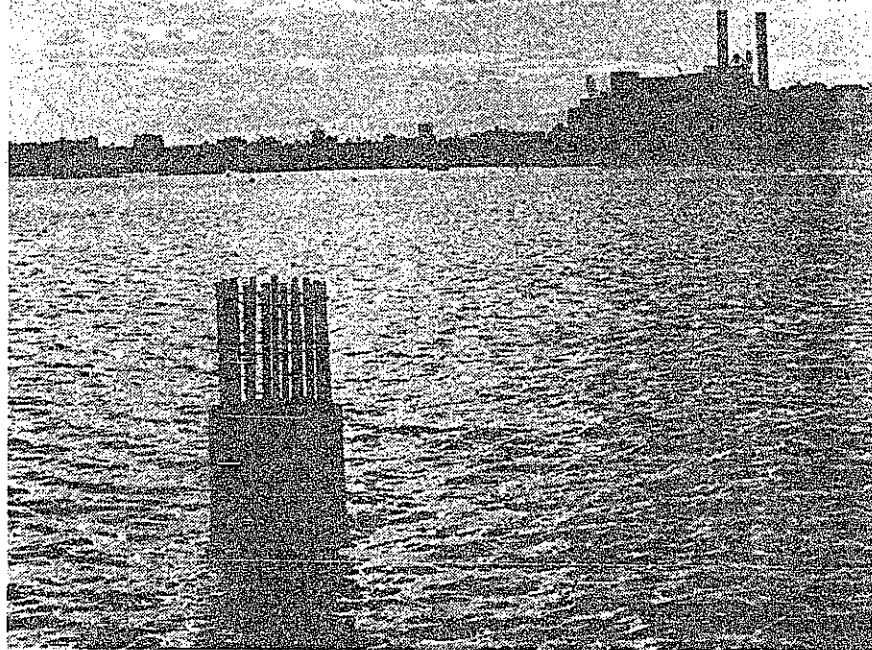
was willing to express a personal opinion on the pass-fail decision. Prof. Frank McClintock said that grades were a symptom of the problem of the freshman year, but not the problem itself. He feels that the material being presented was not being learned and that, if the students could learn all that the teachers could teach, grades would be "no sweat at all." He felt that this problem of mastery of the material might be solved by upgrading the first year program, rather by abolition of grades.

Re-examination set

The Faculty CEP has apparently decided to re-examine the problem of the freshman year on a broader level. The nature of this re-examination, however is as yet unknown. Professor George Valley, Undergraduate Planning Professor, speculated that this would initially take the form of further studies conducted by the CEP. He was uncertain, however, as to exactly who would undertake these studies or what would in fact be studied.

Clearly, when the CEP does reach a decision on what to do next, they will announce it. Until then they apparently will say nothing about their plans for the freshman year either as a whole or in detail.

# The Tech



Vol. 87, No. 47 Cambridge, Mass., Tuesday, Nov. 21, 1967 5c

## Rare edition of Galileo volume donated to the MIT libraries

By Dean Roller

The MIT Libraries have acquired a rare original volume of Galileo's works. The book, "Dialogo Dei Massimi Sistemi" (Dialog on the Two World Systems) was donated by Arthur Vershbow '43.

The book has tremendous historical significance. In dialog form it compares the Ptolemaic and Copernican systems of the universe. Two interlocutors argue for Copernicus, one for Ptolemy, leaving Galileo free to claim impartiality. In this volume Galileo meets the two chief objections to heliocentricity — stellar parallax and vertical fall of terrestrial bodies, as well as introducing his important theory of the tides.

As soon as the work was released in 1632 with the full imprimatur of the censors it was greeted with a tumult of applause from every part of Europe as a literary masterpiece. It was pointed out to the Pope that despite its noncommittal title, the book was a compelling and unabashed plea for the Copernican scheme. The book was placed on the Index of Prohibited Books where it remained until 1822.

Rare edition

MIT already possesses other copies of the book; however, this volume is of particular value because it contains a frontispiece of Aristotle, Copernicus, and Ptolemy disputing the Copernican theory of the structure of the universe—an article contained in very few of the remaining volumes of the book in existence. There are not yet plans for public display of the book.

This rapid transition has created a great deal of disparity between housing goals and actual housing. Projected goals are abundant, but funds are scarce.

Burton — 'cramped'

Harvard houses set a fine example of desirable suite arrangements, but MIT has yet to alleviate the "cramped, depressing conditions in Burton-Connor."

(Please turn to Page 3)

## Haacke Exhibit continues to draw visitors to Hayden

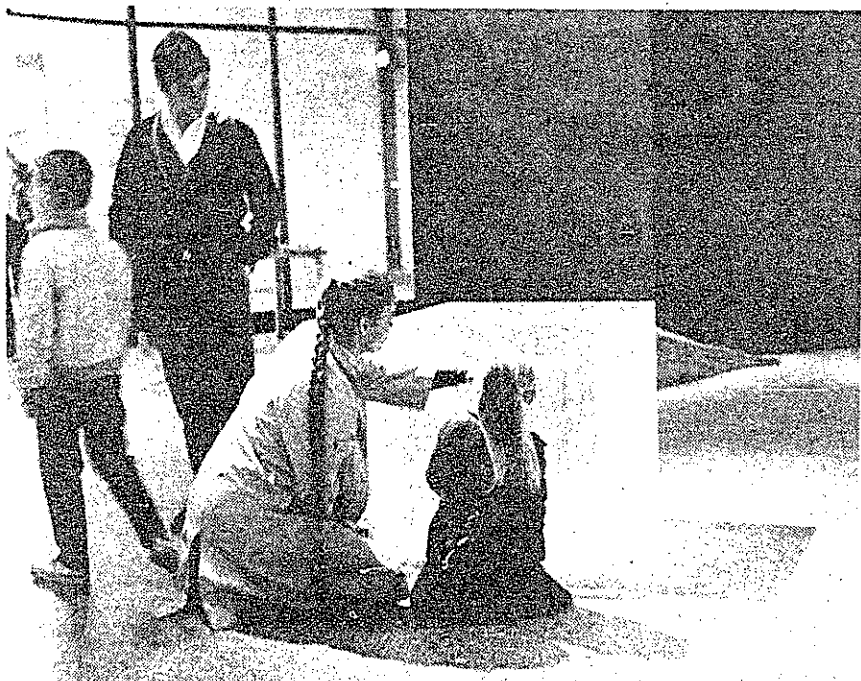


Photo by George Flynn

The exhibit by Hans Haacke is continuing in the Hayden Gallery through Sunday. Pictured is the "Weather Cube" which displays changing patterns of condensation on the acrylic plastic sides.

## Future of Field Day debated by Inscomm

By Mark Bolotin

Should Field Day be continued? What role, if any, should student government take in national issues? In particular, should Institute Committee conduct a poll of student opinion on the Vietnam war?

How can Inscomm reduce the time spent electing its own members without sacrificing the right of each member to voice his opinion?

Issues before Inscomm

These issues provided most of the discussion Thursday night, when Inscomm conducted its first non-election meeting of the year. Evidently rolling ahead on the momentum of this rediscovered freedom to deal with students' problems, Inscomm strode strongly forward, hopefully toward real solutions.

Field Day, the value of which has been questioned in the past, has arisen as a problem once more—this time, primarily through the efforts of Joe Bisaccio, President of the Class of '70.

(Discussion of the problem was (Please turn to Page 6))

## Housing lacks guiding philosophy

By Jack Katz

Building with no foundation is descriptive in a figurative (and almost literal) sense of the Institute's housing situation. One can quote Laurence Bishoff, Director of Housing and Dining Facilities: "The history of Institute housing is a response to the tremendous housing demand which arose after World War II, when MIT made a rapid transition from a commuter to residential university."



Photo by Tim Finin

This is one of the apartments on 282-290 Massachusetts Ave. which is being renovated for undergraduate residence. The renovation is part of the temporary increase in campus housing facilities.

## Model Cities plan brings new crisis for Inner Belt

By Steve Carhart

One more hurdle was placed in the way of the battered Inner Belt plan this week. Massachusetts Senator Francis X. McCann and Representative John J. Toomey, both of Cambridge, discovered that the proposed Brookline-Elm route for the Belt ran straight through the area designated for development under the federal government's Model Cities program.

Wrong order

It would have been possible, Senator McCann told The Tech Sunday, to build the Belt first and then develop the area around it. However, the Model Cities grant is available and must be used immediately, while the start of construction on the Belt cannot take place in the near future. Said McCann, "Here we have two federal agencies, (the Federal Bureau of Public Roads and the Department of Housing and Urban Development) one already allocating millions to renew an area, and the other standing in the wings to pay 90 per cent of the cost of a highway that would rip apart the very area slated for renewal." The area in question lies between Massachusetts Avenue and the Somerville border and is split by Elm St.

Expiration of funds?

One possibility which has come to light as a result of the two conflicting projects is the chance that the delay in the construction of the Belt caused by the model cities mixup could result in the loss of construction funds for the Belt when the Interstate Highways act expires in 1972. Senator McCann, long an opponent of the Belt, said that it would be a "bonus for the people of Cambridge" for the city

to get the Model Cities project and in so doing block the Belt.

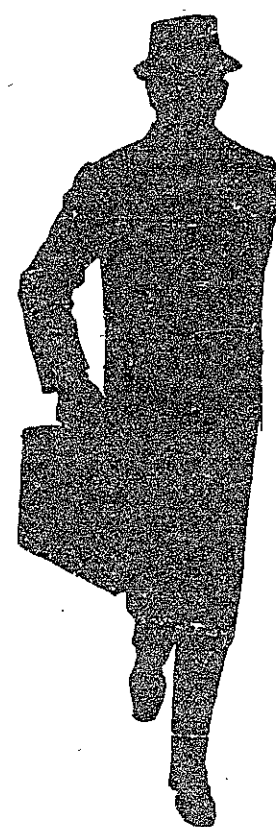
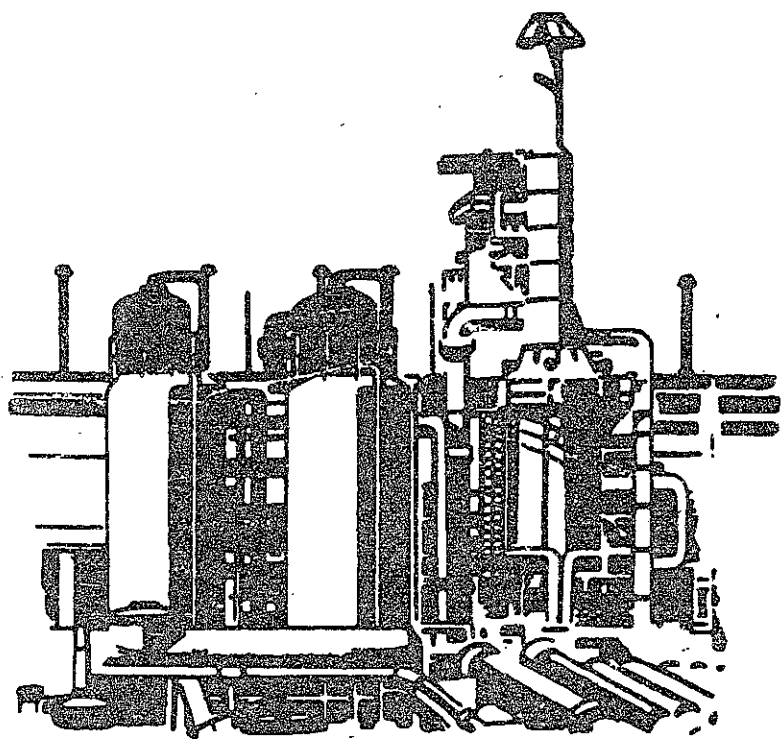
Another route?

Naturally, the Belt could be built on another route which did not go through the Model Cities project. However, it has been discovered that the Portland-Albany route, which was the last possibility to be eliminated when Brookline-Elm was chosen, presents previously unforeseen difficulties. At certain times during the year, the soil in the vicinity of the Necco plant, where the Belt would go, becomes sub-marginal for support of a roadway. Were the road built along this route, it would require expensive additional supports. Another possible route is Memorial Drive, but very little thought has been given to this possibility compared with the planning which has been done on Portland-Albany and Brookline-Elm. Such a route would present the added technical difficulty that entrance and exit ramps could be located on only one side.

Details of grant

In contrast to the Inner Belt, which has been under consideration for about twenty years, the HUD grant to Cambridge was announced last Thursday. Cambridge was one of 63 communities to receive a grant under the recently established program. The city must submit a detailed plan within nine months of the procedures it will use in rebuilding the ghetto area covered under the Model Cities grant. The sum allocated to Cambridge by the federal government totals \$10 million and will finance the renewal of an area 268 acres in size.

# WE'RE NOTED FOR 2 KINDS OF CONSTRUCTION



## POLYMER PLANTS and PROFESSIONAL CAREERS

We have to build both, because you can't separate them. We are leaders in this specialized engineering and construction field because of our experienced professional staff. We have a precision team, because our organization is noted for its creative engineering, in its contract work, in its R&D and in its superb employee relations.

C&R designs and builds chemical plants, principally in the organic and polymer fields. For example, we are currently building complete facilities for ABS, PVC, polyethylene, synthetic rubber, chlorine, insecticides and petrochemicals.

Our people are proud of the outstanding profit sharing program that reflects a decade of solid achievement. If you would like to join a growing organization with good opportunities for advancement, and your major field of study is in Chemical, Civil, Electrical, Mechanical, or Instrumentation Engineering, you are invited to speak with our representatives who will visit your campus on

### MONDAY, DECEMBER 4

# Crawford & Russell

INCORPORATED

ENGINEERING • DESIGN • CONSTRUCTION

Stamford, Connecticut

**C&R is within a half hour or less, by car, of most parts of the New York area, just minutes from Exit 7, Connecticut Turnpike.**

# Housing progress hampered by lack of funds

(Continued from Page 1)

The Faculty Committee on Student Environment thought in 1963 that it was necessary to furnish living conditions of a high quality for all students who wish to live on campus, but this year 40 freshmen must double up in East Campus and 20 doubles have been made into triples at McCormick Hall.

## Housemaster program

Again the Committee on Student Environment thought it imperative (and fitting with the philosophy that living conditions are a very important part of a student's total education) that a Housemaster program be set up. It would call for a Housemaster, two senior tutors and one graduate student tutor for every 30 students. At present East Campus has one Housemaster and only six gradu-

usual. Since the wing is not yet complete, some women are now living in graduate apartments at Westgate on a temporary basis.

## Need — 600 beds

In addition to working without any marginal bed space, the Institute must consider a long-term need. Approximately 90 beds will be lost due to necessary renovations in Burton House alone. The Institute will probably increase its freshman class at a slow rate. These and other factors add to a long-range need of 600 new beds. About half of these are to be supplied by the new MacGregor dorm which is to be started by the first of the year.

## Philosophy of housing

Thus, most of the weaknesses of Institute housing can be attributed to the fact that it has been only an unguided response to the

dence. Privacy and community were both seen to be necessary so they advocated a suite system with single rooms. Informal guidance by faculty was thought to be an important part of a student's education, so plans for a house tutoring system were drawn up.

## Individual suite description

Suites should be constructed in a variety of different ways. They are to house 4 to 10 men. Each suite is to have galley facilities exclusive to itself. A lounge should be close by the galley so that students may engage in informal discussions. There should be a lavatory and shower for each suite, and each room should have a wash basin. Larger lounges would be built for every three or four suites.

To illustrate the importance of faculty associations, the report quotes former President, Dr. Julius A. Stratton; "There is no single, simple way by which such ideas can be imparted to the student. Certainly it isn't done alone by lectures upon ethics, or character, or the duties of citizenship. But it is accomplished in the subtle way of example of association with a faculty that the student respects, of an undergraduate experience of several years in an environment that is in every way conducive to the highest values that shape the lives of cultivated men and women."

## Housemaster — Tutor plan

Under the Housemaster - Tutor plan, the senior faculty member—the Housemaster — is supported by one or more junior faculty members who are presently called "senior tutors." The master and senior tutors are in turn supported by a number of graduate students. The master is generally a married man who, with his family, makes his home in an undergraduate house. The senior tutors are presently unmarried and reside in small suites with private bath and kitchenette facilities. The tutors are unmarried, reside in single student rooms, and share other facilities with the undergraduates.

## Roles of Housemaster

The master acts as head of the house and carries the major share of non-directive, cooperative effort in working with student government, the house superintendent, and the dining service staff within the house. Neither the master nor his supporting staff are given specific academic functions. This is so the relation developed

*'An educational function itself not in a passive way but a dynamic way'*

ate student tutors. Baker House averages one graduate tutor for each 90 students.

## System in transition

Burton and Baker houses were not in use until 1951 and 1949 respectively. They house approximately 910 of 1,693 undergraduates who live in Institute houses. The rapid post-war transition from commuter to resident university is thus illustrated.

This transition is still going on. The population of students desiring to live on campus has yet to stabilize. Each year a combination of several small factors may lead to an under-estimate on the order of 40 students. The small factors may include a fluctuation in freshmen pledged in fraternities, a smaller number than expected of upper classmen deciding to move to apartments, and a small number of upper classmen deciding to move back into the dormitory system.

## Stop-gap help

In an effort to meet this immediate need, an apartment is being renovated at 282-290 Massachusetts Avenue. It is expected to house about 100 students who are now living in auxiliary apartments at Eastgate and 27 West Street.

In anticipation of the new McCormick wing, more female students were admitted in 1967 than

demand for beds. The Institute in effect was accepting the physical implications of its becoming a resident university, but it was ignoring the abstract emotional implications that were also created.

It was not until 1963 that the Faculty developed a guiding philosophy for the creation of a resident campus. The philosophy and proposals came from a study conducted by the committee on Student Environment.

## Dynamic educational aid

In general, the philosophy prescribed by the committee is contained in a quote by Dr. James P. Killian, chairman of the Corporation, that is cited in the report. "We want to develop an environment at MIT which performs in the broadest sense an educational function itself not in a passive way but in a dynamic way. The whole complex of living conditions, activities and atmosphere must be skillfully arranged to provide the kind of environment that contributes to the development of leadership, breadth, and standards of taste and judgment among our students."

After a study of several other universities, the committee described in elaborate detail physical requirements which it believed necessary to accomplish the psychological goals of a student's resi-

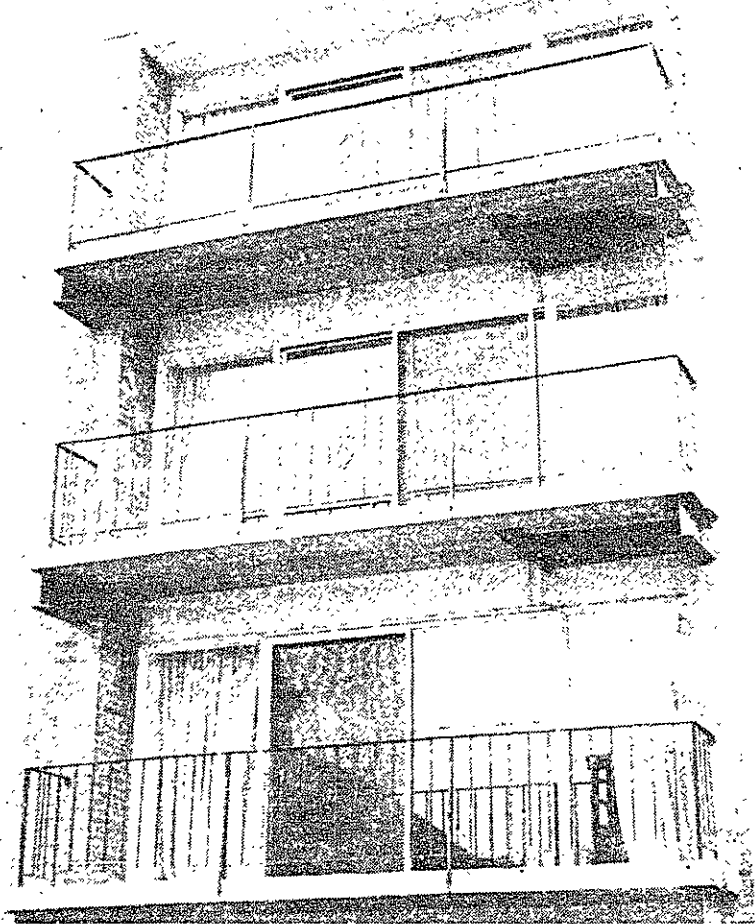


Photo by Tim Flin

Bright and modern, but far from campus, the West Street apartment-dormitory has been a stopgap answer to part of the Institute's housing crisis. This is the second year West Street has been an undergraduate residence.

between them and the students sulted in dormitory priority for all can be normal. undesignated endowments.

His residence should include a large living room, a dining room, a kitchen with equipment flexible enough to prepare food for large or small groups, and about four bedrooms, one of which should be convertible into a guest room.

## Renovation requests

Very detailed plans for renovation of those student residences which fell far below the quality standard were submitted.

The committee came to the conclusion that the Institute should run its housing on a non-profit, non-loss basis. It was also decided that free grants and donations would have to be the main source of income. Behind these decisions was the consideration that the Institute must remain competitive with off-campus apartments.

## Major fund drive

Little seems to have been done to implement many of the important 1963 proposals. The fate of East Campus is still undecided. The renovation of Burton House will not be undertaken until MacGregor is built to take the overflow resulting from the loss of beds.

The greatest inhibitor to fast action in the Institute's housing needs is the lack of funds. To meet this need there is a major fund drive this year for housing.

## Aid of Alumni Fund

The Alumni Fund, which is one of the largest in the country, has, since 1941, stressed the need for environmental improvement. It is only this year that the drive promotes specifically the need of dormitory improvements. In addition, the Alumni Fund will donate all undesignated funds to dormitories.

As with the housing situation itself, the problem with the Alumni Fund is that MIT does not have a housing tradition. An established alumnus who graduated in 1939 does not see the need for such emphasis on dormitories.

It has been the goal of the Alumni-Fund Committee to make known the vital need of a good housing system. Parallel efforts in the MIT Corporation have re-

IRDF assists fraternities  
Recently established to aid fraternities in renovations was the Independent Residence Development Fund. It has in a short time accumulated around \$450,000. It is growing quite rapidly and is expected to reach a total of 3½ million dollars.

A major renovation has already taken place in Pi Lambda Phi. Improvements are also planned for Phi Beta Epsilon. The great advantage of the IRDF is that donations to it are tax deductible. Donations to individual fraternities are not.

## Short term needs

Aside from the long term goals of fulfilling the philosophy that life outside the classroom should be as rich and rewarding as that within, there are many short term projects which are almost necessary for the comfort of many students.

One big complaint on the part of the students is the "28 shades of Institute gray." Some students in Runkle within East Campus decided to paint their dull halls a flashy red and gold. As a consequence of their dramatic effort for self-improvement, the Institute saw the need for improvement. Workers were contracted to clean the halls and students were to be given an opportunity to choose more lively colors to be purchased by the Institute and to repaint their own halls.

## Repainting in Burton

A similar arrangement seems necessary to make bearable the halls in Burton House, while it awaits renovation.

Other short term needs are such things as improved porter service and motorcycle storage space.

## Evolutionary stage

The housing situation can be viewed in the evolutionary stage. The Institute does not have hundreds of years of a tradition of campus housing. It has gone into the housing business only recently. Worthy objectives guide the long-range policy. However, it takes time to fulfill objectives that require such an immense amount of capital.

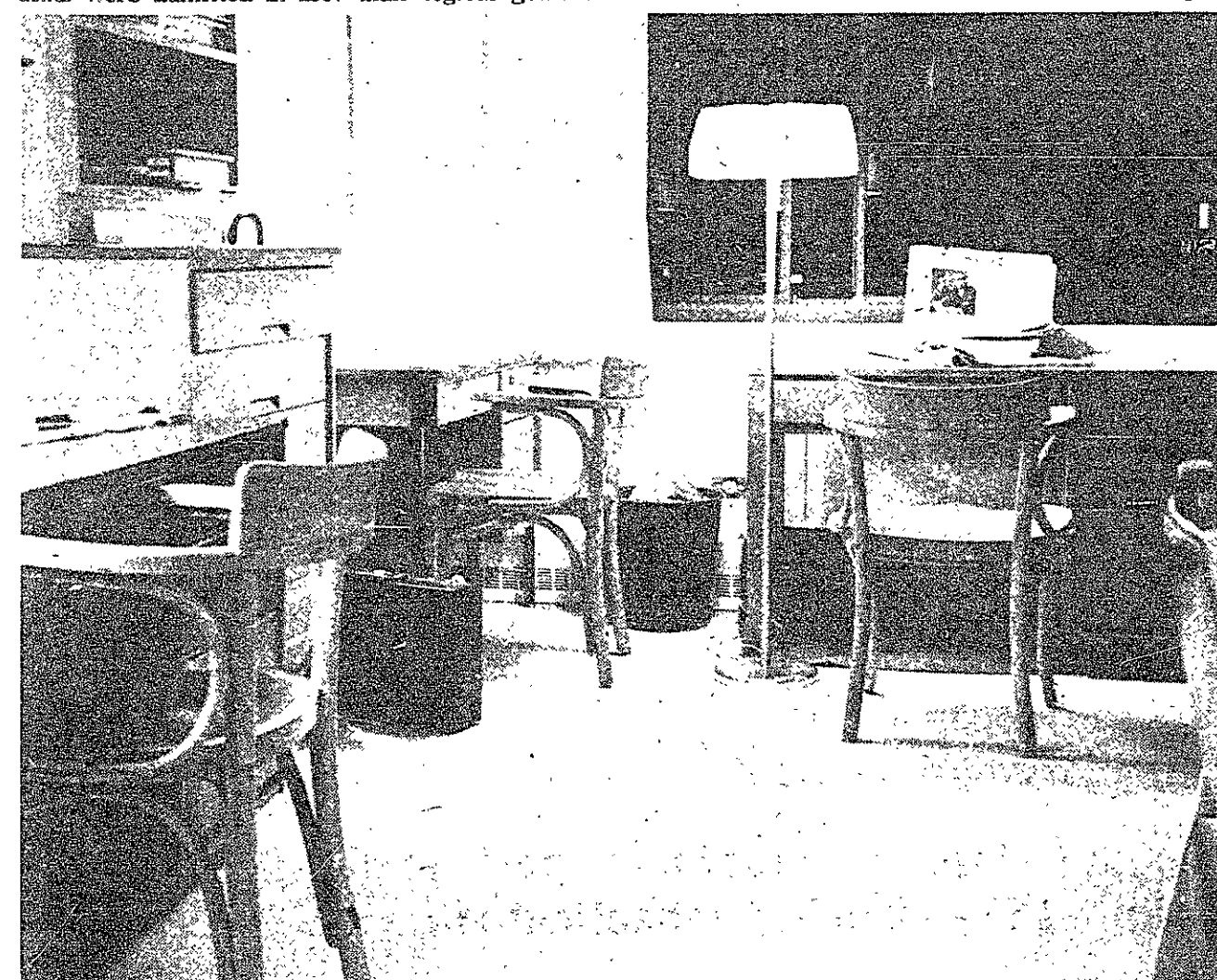


Photo by Steve Gretter

This is one of the rooms in Eastgate, the married student residence currently housing undergraduates. Eastgate was completed this summer after more than three years, and was immediately filled to capacity.

## The draft and the undrafted

Though most MIT males are hopeful that certain fields of graduate education — namely engineering and science — will be draft exempt next year, as yet the only exceptions are medicine, dentistry, veterinary medicine, osteopathy, and optometry. John F. Morse, director of federal relations for the American Council of Education, warned the council recently that at the end of this academic year all student deferments for those receiving baccalaureate degrees, those completing their first year of graduate study, and those receiving their advanced degrees will be terminated.

He noted that draft calls would remain roughly the same, and that present procedure calls for the oldest eligible to be inducted first. He concluded, "Thus it must be assumed that virtually all graduating seniors as well as graduate students completing their first year, or receiving their degree, will be inducted unless they are over-age or physically disqualified, or have previously served in the armed forces."

Morse's report said that unless the law or present regulations are changed, enrollment in the first two years of graduate and professional schools next year will be limited to women, veterans, men physically disqualified, and those over age 25.

The council estimates suggest that in the year beginning next July, one-half to two-thirds of all draftees will be college graduates or graduate-school students. First year students at Harvard Business School were told recently that probably 60% of them would be drafted before next academic year.

Of course, under the new law there are "certain other, not yet designated disciplines" which will be made exempt; these are the cherished occupations and majors that will probably include most branches of engineering and science. This is the all important list which will be made public very early next year.

For those fields which most likely will not be deferred, such as the arts, business, law, and most jobs, present policy practically guarantees induction, because it calls on the oldest eligible first. Mrs.

Lutz, in discussions with Washington last week, was told that the policy of taking 25 year-olds, first, then 24, 23, etc. down to 19 was working "very smoothly" and would continue. Any plan to establish a prime age group at 19 from which draftees would be chosen at random requires an act of Congress.

The Council of Graduate Schools and the Association of Graduate Schools of the Association of American Universities have called on President Johnson to minimize what they predict will be "immediate serious consequences for graduate education." They have suggested that a 19 year-old prime age group be created which would include non-deferred college graduates and no longer deferred graduate-students. From this pool would be drawn the necessary manpower for the army's roles.

Such a proposal has two distinct advantages. First, it would yield a better age mix for the armed forces, instead of a disproportionate number of men over the age of 22. Secondly, as a matter of fairness, it would give the non-deferred graduate students at least some probabilistic chance of remaining a civilian. Presently, a 19-year old not attending college has a lesser chance of being taken than would a graduate student. Students graduating from college face an interesting dilemma. They may prostitute their true desires and enter a scientific field (assuming their background enables that), or follow their true desires and watch their scientific brethren safely deferred. Then, most tragically, they find that their previous deferments have made induction now a veritable certainty.

That some graduate deferments be granted is preferable to the single-minded arbitrariness of a strict lottery system. However, a policy which takes the oldest eligible male places undrafted graduate students in an unfair and precarious position. The only way to ameliorate such a situation is to consider them 19 years old when their deferments end and treat them as such for a year. This requires either a modified lottery system or a reconstruction of policy.

## Letters to the Tech

(Ed. note: We here depart from policy and allow one of our staff to write a letter to *The Tech*. Since her review of the San Francisco Mime Troupe's presentation of 'L'Amant Militaire,' Miss Berlin has been the subject of a number of letters, the cause celebre of a petition in one dormitory, and the recipient of numerous phone calls. She here spells out for friends and foes alike her reply to one letter printed last week.)

To the Editor:

Never before in the field of human conflict has a point been missed by so many.

It is easy to lift phrases out of context. I did not claim that the Mime Troupe had to give non-verbal presentations, just that that had been the general impression of the audience regarding what they were going to see. (An incidental note to Mr. Covitt: Chaplain's performances were usually non-verbal too, remember?) As to "The Mime Troupe doesn't mime! It talks!" etc., one of my many "proofs" of illiteracy, I'm sorry, but it was my intention to be humorous. (but of course, not to be dirty; perhaps this could have been detected by my critics.)

Finally, as to my basis for judging the play. Contrary to popular belief, I am not a refugee from Queen Victoria's court. My complaint was not that "the play was too dirty for me." (Gee, I even write for VooDoo). Rather, it was that the Mime Troupe let their message be overshadowed by the desire for an easy laugh. If the play was intended only as comedy, then the number of "fun-

ny moments" is indeed a valid criterion. ("Blundering incognizance?" Now really, Mr. Covitt!) However, the Mime Troupe had pretensions to being more than mere comedians. The Mime Troupe's stated goal was to disturb their audience about society. They presented anti-war arguments with a twist, in a manner that could have been convincing, in a manner that occasionally approached their avowed target, but never quite hit. That is what I lament, Mr. Covitt. Your "accurate view" only notes as did many on campus, that it was a "good dirty play." As I've said, it had pretensions to being more. It was on these pretensions that I evaluated it, not on a wounded sense of vulgarity.

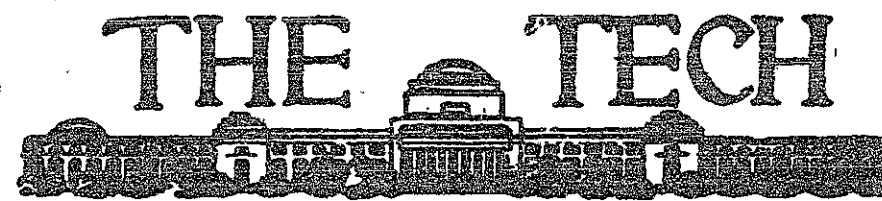
Incidentally, I had been unaware that a critic had a moral obligation to concur with majority opinion. In that case, may I now recommend to you all, most highly, "The Beverly Hillbillies" and "Batman," both of which have gained immense popularity, and are therefore of undoubted merit.

It is indeed a sad story if Mr. Covitt, as a self-professed representative of the student body, defines a "poor review" as one that disagrees with his notions, (albeit that his ideas are shared) and has to descend to personal attacks of the reviewer's competence to make his point. (Now really, weren't you just a bit unfair?)

Oh, and welcome to the staff, Mr. Covitt. I eagerly await your first review.

Truce? O.K.?

Raisa Berlin '71



Vol. LXXXVII, No. 47 November 21, 1967

Chairman .....	Guille Cox '68
Editor .....	Mike Rodburg '68
Managing Editors .....	John Corwin '68, Tom Thomas '69
Business Manager .....	Dan Green '68
News Editor .....	Mark Bolotin '68
Features Editor .....	Michael Warren '69
Sports Editor .....	Tony Lima '69
Entertainment Editor .....	Jack Donohue '69
Photography Editor .....	Bill Ingram '68
Advertising Editor .....	Nick Covatta '68

National Advertising Manager .....	Jack Swaim '68
Associate Managing Editor .....	Greg Aronson '70
Associate News Editor .....	Steve Carhart '70
Associate Sports Editor .....	George Wood '70
Intramural Sports Editor .....	Joel Hemmelstein '70
Associate Entertainment Editor .....	Barry Mitnick '68
Associate Photography Editor .....	Jeff Reynolds '69
Accounts Receivable .....	Pat Green '69
Assistant Advertising Manager .....	Regan Fay '70
Controller .....	Steve Kinney '70
Treasurer .....	Steve Tharp '71
Secretary .....	Linda F. Stewart

Staff Candidates .....	John Loewenstein '69, Peggy Hopper '71
Scott Hartley '71, Marya Sieminski '71, John Richardson '71	
Randy Hawthorne '71, Tim Finin '71, Harriet Kang '71	
Dave Simansky '71, Bill Swedish '71, Stan Gilbert '71	
Betty Deakin '71, Gene Thorner '71	

Second-class postage paid at Boston, Massachusetts. The Tech is published every Tuesday and Friday during the college year, except during college vacations by The Tech, Room W20-483, MIT Student Center, 84 Massachusetts Ave., Cambridge, Massachusetts 02139. Telephones: Area Code 617, 876-5855, and 864-6900, extension 2731. United States Mail subscription rates: \$4.25 for one year, \$8.00 for two years.

Front page photo of the Charles River by Richard Koolish.



## The Ivory Tower

# Romney lacks Viet policy

By Steve Carhart

Although the announcement by Michigan's Governor George Romney that he will be a candidate for the Presidency hardly came as a surprise, it confirms the need for a thoughtful evaluation by the nation of this man who might be our next President. President Johnson's popularity is now as low as it has been since he took office, and if the war continues it could fall even further. Whichever Republican hopeful gains his party's Presidential nomination has a good chance of defeating the incumbent.

### The President's problems

Most of the President's current difficulties can be traced to a national uneasiness about the war. Linked with this is a suspicion that the President is being less than honest with the people in informing them about the war. The Republican candidate can win if he can present an image of integrity and convince the people that he can lead the country out of the mess in Vietnam. On the first count, Romney does indeed present a "stronger than dirt" personal image, but an examination of his ideas on the war shows them to be constantly changing in

detail but essentially the same as those offered by the administration.

When he returned from his visit to Vietnam in 1965, Romney felt that our presence there was "the morally right thing." In April of this year, in a major policy speech, he stated that "it is unthinkable that the United States withdraw from Vietnam." He characterized his plan for Vietnam after the war as "peace with amnesty" in which members of the NLF would receive full citizenship provide that the NLF were disbanded.

### New feelings

By September, however, Romney's tune had changed. Announcing his new opinion at a press conference, he told reporters "I no longer believe that it was necessary for us to get involved in South Vietnam to stop communist aggression in Southeast Asia." In addition, Romney said that what he was told and shown by US officials in Vietnam during his 1965 visit resulted in his receiving "the greatest brainwashing that anybody can get." Is the public to infer from these statements that he is advocating withdrawal from Vietnam? Probably not; he has not said so and it is more

likely that he feels that while we were wrong to enter the war in the first place, we cannot afford to leave.

### A "just peace"

In his speech announcing his candidacy, Romney promised to work for a "just peace in Vietnam, unshackled by the mistakes of the past." This is a noble goal to be sure, but this sentiment sounds very much like the administration's announced policies. It is significant also that the governor did not offer any hints on just how he plans to attain this "just peace."

Governor Romney's problem, apart from his own vacillations, is that while it is very easy to criticize specific aspects of the conduct of the war, such as public information policies it is difficult to offer a policy very different from the administration's. One must advocate total withdrawal, an enclave strategy, or major escalation, none of which appear to have as much popular support as current policy. Yet to win the nomination and the Presidency, Romney will have to convince the electorate that he offers a real alternative to current Vietnam policy, a difficult task indeed.

# New X-ray source found in Virgo by two professors

Two scientists from the Center for Space Research have measured the X-rays emitted by a galaxy 33 million light years away, and pinpointed half a dozen other sources in the constellation of Sagittarius.

Professor Hale Bradt and Dr. Gianfranco Spada reported their results before the American Physical Society meeting in New York Friday. The data was obtained during the flight of an Aerobee rocket launched from White Sands Missile Range in New Mexico last July.

## M-87 identified

Part of the flight was devoted to searching for X-ray sources in the Virgo cluster of galaxies, and data clearly indicates that the galaxy M-87 (or Virgo A or NGC4486) is a strong source. M-87 is also one of the brightest radio sources in the sky. It

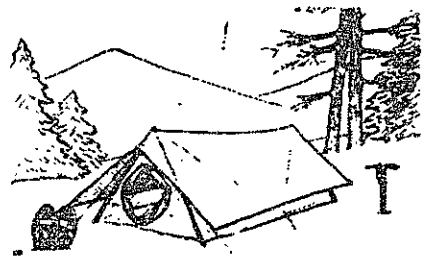
contains about 1 trillion stars, ten times as many as our own galaxy. When photographed, an intense jet can be seen projecting from the center of the galaxy. The light from this jet is highly polarized, indicating that it is "synchrotron radiation" which arises from electrons with energies of 100 Bev spiral in magnetic fields within the jet.

## Previously reported

The galaxy had previously been reported as an X-ray source by the Naval Research Laboratory in Washington, D.C. The galaxy is emitting about one million times the power in X-rays as the Crab Nebula, but its greater distance meant that only about one X-ray was received every three seconds per square inch of collecting surface by the rocket carrier.

## Mechanism unknown

At present the manner in which M-87 generates its X-radiation is unknown. It may be that it, too, is (Please turn to Page 8)



LIGHTWEIGHT EQUIPMENT FOR THE BACKPACKER AND MOUNTAINEER

Maintenance Supply, Inc.

P.O. Box 306  
Cambridge, Mass. 02159

CATALOGUE AVAILABLE UPON REQUEST

Store: 1247 Commonwealth Ave.  
Allston, Mass. 617-254-6677

**RACKET'S RESTRUNG**  
**Tennis & Squash Shop**  
67A Mt. Auburn St., Cambridge  
(Opp. Lowell House)  
TR 6-5417

**WEEKLY SPECIAL**  
porsche s/c Conv.  
125 mph  
35 other sports cars

**NEW ENGLAND SPORTS CARS**  
**SPORTS CAR CENTER**  
16-17 CHARLES STREET, MALDEN, MASS. — 324-9000  
A. Colani "Known for Low Prices"

# New forms of communication

## Library features speedy access

(Ed. note: The following is the last in a series of articles on the MIT library system, its problems and its projects, both present and future.)

By Robert Dennis

Having discussed the objectives of the major research programs currently underway, let us now take a projected view of a few aspects of the MIT library system which could become reality as early as 1975. At that time, approximately half of the scientific information actually transmitted to the user will be stored in books or on microfilm and the other half will be in some computer-accessible form.

It is probable that all lectures will be stored, at least temporarily, and that a student who has missed a lecture in person can have it repeated to him over the telephone from his living group. With the use of new report-editing facilities, many of the MIT staff will undoubtedly use the computer network as a means of first recording their potentially publishable material.

One of the most significant features is that a new breed of pro-

fessional librarian will be needed at all levels to co-ordinate the use of the advanced machinery needed to control the vast increase in available information, and to maximize both the quality and quantity of services provided to the users.

## Five means of access

If the goals of Project Intrex are realized, the information transfer system of the late 1970's will provide at least five means by which the user can obtain access to the information stored in the system. It is highly unlikely that the user will borrow books from the library in the present manner.

If he needs the actual document itself, he will obtain a copy of it, either in the ordinary published form or a duplicate from one of the library's many duplicating facilities. It is possible that books for storage could be made of high-quality material to prevent the deterioration which affects our present materials.

A second service will employ a variety of consoles using such techniques as cathode-ray tubes to present specific pages of a doc-

ument to the user who does not require the actual document in its entirety. Fifty to two hundred such terminals could be located around the campus.

## Long-distance service

The third class of service to be provided will be that of producing hard copy by typewriters or printers at remote locations, quite analogous to the typewriter output now obtainable through the MAC computer, but at a higher output speed.

Related to this program will be the design of up to one thousand terminals for the purpose of Computer-Aided Instruction. The terminals for this service will resemble those of the third class except for restrictions on the speed of the printer.

A final form of output will have a touch-tone pushbutton input and voice-answer-back system in which each student will be able to communicate with the libraries by mean of a telephone either on his own study desk or shared with another student in his dormitory room.

## The ultimate goal

The transformation of the library system from a storehouse of books to the center of a computer-network intellectual community will obviously not be accomplished without great expense. It has been estimated that the information transfer budget for 1975 will be around \$15 million. The projected results should certainly be worth the cost, however, since the ultimate aim of the revolutionary programs now underway at MIT is to combine the five output techniques mentioned above into one elaborate terminal.

This all-purpose terminal will provide the user with not only the display of catalog information, extract information, or complete portions of complete documents but also access to the computational facilities of the central computer system.

The Graduate School Office is distributing a publication designed to inform undergraduate and graduate students about the various types of financial assistance available to them during their graduate years at MIT and elsewhere. These brochures are now available through students' course department offices, Graduate and Senior Registration Officers and from the Graduate School Office (3-136).

**4 MEN NEEDED**  
**\$3.00 per hour**  
**CALL 326-3142**  
between 10-2, 3-5

## This new Norelco Rechargeable Tripleheader packs the longest charge in history. Or economics. Or math. Or wherever you shave.

And it delivers twice as many shaves per charge as any other rechargeable. All you have to do is charge it overnight for two weeks of close, fast, comfortable Norelco shaves.

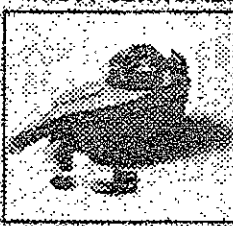
And you can use the Rechargeable Tripleheader 45CT anywhere because it works with or without a cord.

Either way you'll get Norelco shaves that are 35% closer. So close, we dare to match them with a blade.

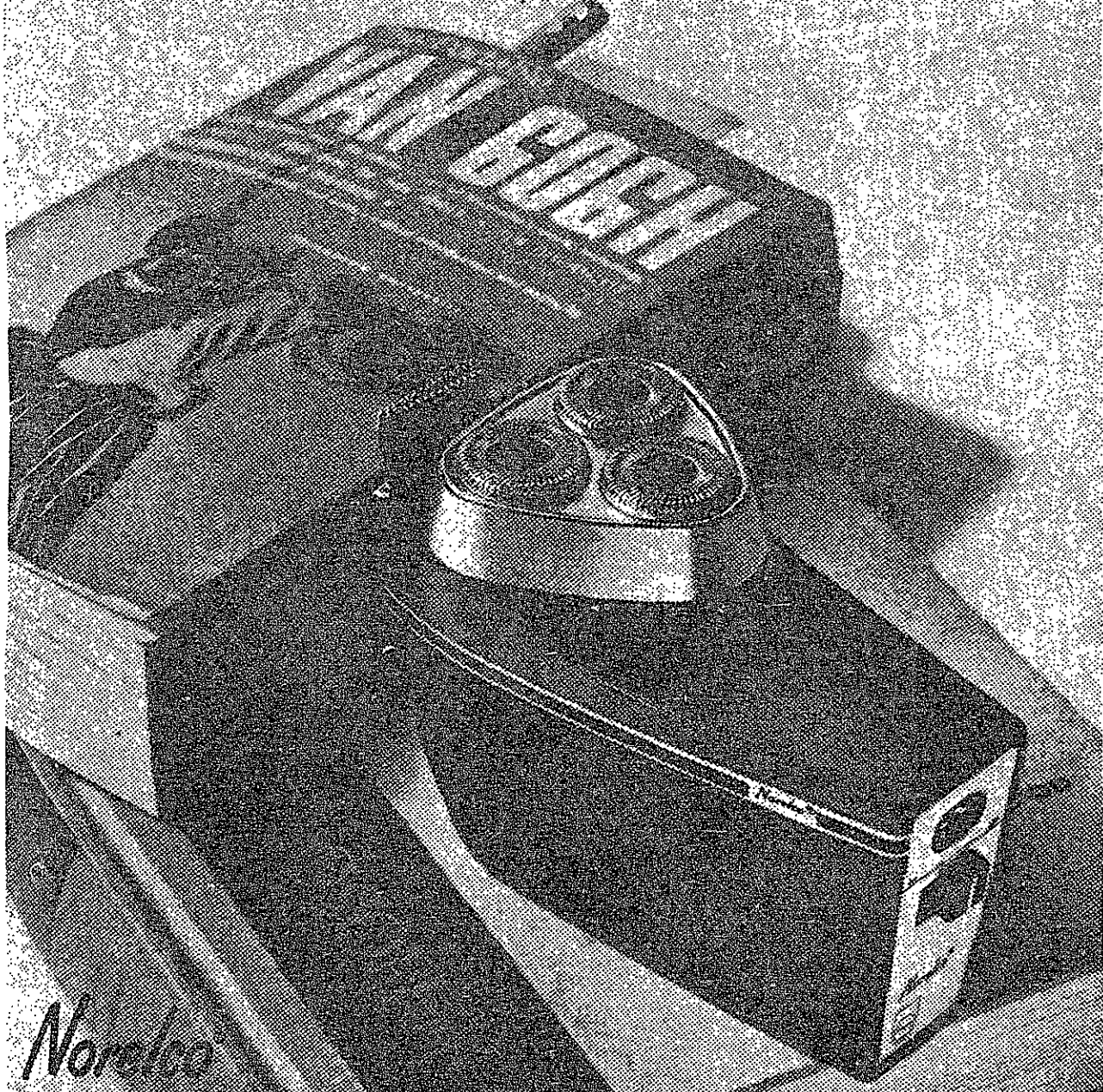
But comfortable too because Norelco Microgroove™ floating heads and rotary blades stroke your whiskers away without a nick or a pinch.

There's a pop-up trimmer for sideburns. Altogether, more features than any other shaver.

Elective II: the Norelco Tripleheader 35T. The closest, fastest, most comfortable shaver on



wheels with a cord. The Norelco Tripleheaders. The biggest wheels on campus.



Norelco

The close, fast, comfortable electric shave. © 1967 North American Philips Company, Inc., 100 East 42nd Street, New York, N. Y. 10017

during the Thanksgiving holidays we invite you to visit **OUR UNIVERSITY SHOP**

You'll find a wide choice of suits, tweed sport jackets, topcoats and warm outerwear in sizes 36 to 44... all with our distinctive styling and taste. Also furnishings and other items.

Our 3-piece Suits, \$90 to \$105  
Tweed Sport Jackets, \$55 to \$70  
Topcoats, \$95 · Polo Coats, \$135  
Tropical Worsted Tuxedos, \$95  
Outerwear, from \$37.50

ESTABLISHED 1818

**Brooks Brothers**  
**CLOTHING**

Mens & Boys Furnishings, Hats & Shoes  
346 MADISON AVE., COR. 44TH ST., NEW YORK, N.Y. 10017  
46 NEWBURY, COR. BERKELEY ST., BOSTON, MASS. 02116  
PITTSBURGH · ATLANTA · CHICAGO · SAN FRANCISCO · LOS ANGELES

# Inscomm questions TSE, role of student government

(Continued from Page 1)

Discussion of the problem was opened by Beaver Kay, president, Herb Finger '68 who said, "After a slow." He stressed that in construction of special equipment.

"less time was spent this year (kite and biplane) than in years previous." Finger further claimed that, through the use erector-set-like steel, this year's equipment was "safer." In an attempt to introduce some facts to guide the discussion, Freshman Council President Bill Rastetter presented the results of a questionnaire conducted among members of the Council.

#### 50% attendance

His feedback indicated that 50% to 60% of the freshmen attended Field Day and that those who didn't attend kept away primarily because of either JP or apathy, while a small minority was "out of town, scared, or kidnapped." When asked to rate the purpose of Field Day they felt most important, 57% of the Council members named class unity or spirit, 25% indicated fun, and the remaining 18% chose tradition. They felt that the Glove Fight and the Tug-of-War best achieved these goals, presumably since no other event involved so many participants. Four-fifths of the respondents who chose spirit as the most important purpose of Field Day also felt that Field Day was necessary for that spirit. Thirty-eight per cent favored some substitution for Field Day, while 43% of the Council chose to retain Field Day in its present form, rather than junk it.

In interpreting this questionnaire, Rastetter echoed the feeling that contests requiring expensive construction projects should be eliminated from the Field Day program. In addition to placing an early financial burden on the Freshman Class, the security necessitated by such projects meant that only a small number of people could work on them (contrary to the goal of spirit and unity). Also criticized were "destructive rivalry" between classes and the pressure exerted upon both freshmen and sophomores to take part in Field Day.

#### Dispute over attendance

The discussion quickly centered around the question of enthusiasm for Field Day. Bisaccio noted that only 44 of 70 Freshman Council members (who might be considered the freshmen most enthusiastic about Field Day) returned the poll. He challenged Rastetter's claim that 50% of the freshmen took part in Field Day (based on the number of gloves passed out) and expressed disbelief that "less than 200 sophomores" could defeat nearly 500 freshmen in the Glove Fight. Further, since "most sophomores had more than one glove" at the beginning of the Glove Fight, he imagined that "most frosh did the same." The dispute over numbers, at least, was settled with the acceptance of a head count conducted by George Katsiaticas '70 which listed 450 freshmen and 250 sophomores.

The special events of Field Day were attacked by the claim that construction of special vehicles took so much time that it was not unusual for the builders to miss an entire week of classes. Other opposition to Field Day was based on the misdirection it gives to Freshman Council. As an alternative to Field Day which might better guide the Freshman Council, Al Singer '68 suggested that the Council adopt a special project, such as conducting a carnival as a part of Junior Prom weekend. Bisaccio repeated that there cannot be much enthusiasm for an event that only attracts 250 of 950 sophomores; nevertheless, a combined attendance of 700 gives Field Day a better percentage turnout than any other event during JP weekend.

#### 'Good state school fun'

In reply to the many condemnations of Field Day due its supposed lack of purpose (or fulfillment of whatever purpose exists) former Freshman Council President Ken Morse '68 recalled a post-Field Day discussion of three years ago with Dean Kenneth R. Wadleigh '43. Dean Wadleigh issued the advice that no concern should be given to Field Day's lack of concrete motivation; Field Day allows some "good state school fun."

The selection by UAP Bob Horvitz of an ad hoc committee to study Field Day silenced discussion despite muffled protests that the report of a previous ad hoc

government and came out of it with the idea that TSE should not be another activity under Activities Council." Instead, Singer suggested a proposal which was originated by TSE, namely that TSE be given a non-voting seat on Inscomm. Under this proposal TSE could obtain feedback on the reports it presents to Inscomm, as the subcommittees of Inscomm do now.

#### UAP-TSE stockholder

There was considerable objection to this idea from the members of Inscomm; they considered it contrary to their belief that TSE is something apart from student government. Horvitz countered this opposition by citing the right of the UAP, as a stockholder of TSE, to "examine the actions of TSE... which I shall be doing." Singer added that when TSE was established to provide an "umbrella for the many entrepreneurial activities then existing, its establishment was supported by efforts of Institute Committee.

When questioned whether TSE had a monopoly on entrepreneurial activities as a result of its establishment to coordinate such activities, Singer noted there is no legal requirement for any on-campus business to ally itself with TSE. TSE does, in effect, monopolize some services; however, in these it acts as a "utility" for the MIT Community.

No decision was reached. Any Ins-

Inscomm seemed to mirror this opinion, but there were objections. The objections emphasized that the proponents of the poll had yet to explain why the might discover, or how the results of the poll should be conducted, what the poll would be interpreted.

#### Goals of a poll

Paret replied that hopefully the poll would determine whether people at MIT actually know anything about Vietnam or whether they blindly support an opinion, what they think about Vietnam, and why. He added that the existence of MIT political groups which devote large amounts of time and energy to propagandizing about the war implies that there are MIT students who have a great interest in opinion about the war. Finally, the crowd of 2500 which packed Kresge Auditorium to hear a colloquium on napalm indicates that there is broad interest in the war and in learning about the activity in Vietnam.

Krashinsky proposed that copies of the poll be distributed in advance of the actual conduct of the poll. As a result, teach-ins could be held for those wishing to learn more about Vietnam.

#### Another committee

In lieu of a consensus by Inscomm, Horvitz appointed an ad hoc committee, headed by Krashinsky, to prepare another poll for presentation at the next Inscomm meeting Thursday, Dec. 7.

Horvitz then yielded the floor to Peterson, who reminded the Inscomm members that Inscomm spends too much time electing its non-voting members. The blame for this, he explained, lies only partly in the fact that Inscomm is too large to reach a consensus without seemingly endless discussion. He also faulted the fact that Executive Committee recommendations are incomplete, due to ExComm's lack of time.

Peterson dismissed the possibility of reducing the number of elected members of Inscomm until later discussion.

#### Rotating committee

Instead, he proposed the establishment of a five-man committee, whose membership would rotate among the Institute Committee members. In addition to assuming the normal Executive Committee role of announcing upcoming elections, conducting interviews, and presenting recommendations, this committee would prepare a more thorough recommendation. It would list the reasons for supporting or not supporting each candidate and would seek the opinions of all Inscomm members familiar with any candidate. Thus, when discussion of the candidates is conducted, only new arguments need be presented.

#### One ExComm member

Although one of the five members of the rotating committee would be a member of ExComm, Peterson thought unreasonable the prospect of Executive Committee handling the more complete recommendations; since ExComm spends too much time electing to handle the administration of Inscomm.

## Field Day provides 'good state school fun'

committee on Field Day had not been headed.

Discussion turned to the relationship of Inscomm and Technology Student Enterprises. Activities Council Chairman Singer explained that many questions had arisen in the past concerning TSE's relation to student activities and student government.

In looking into the matter of why there seemed to be no relation between Inscomm and TSE, into apparent "contradictions in the stated goals and purposes" of TSE, and into "implications" that there were facets of TSE which merited questioning, Singer found that the primary problem was a total lack of communication between student government and TSE.

#### Feedback urgently needed

The fact that TSE receives limited student feedback necessitates wasted effort by TSE on unwanted enterprises. Consequently, they are not always able to present their goods and services at the lowest cost. When asked about certain accusations of TSE, Singer replied that he had "investigated these and discovered that most of these accusations are based on a total lack of information."

He continued, "I went into this wondering why TSE was not part of Student

comm activity will await the outcome of upcoming TSE board meetings.

Mike Krashinsky '68, Senior House President, distributed copies of a poll which he had drawn up "after consultation with a number of experts on Vietnam." The poll consisted of eight questions on the Vietnam War and three on the role of student government involvement with "non-MIT affairs."

#### Paret supports poll

Support for the poll came quickly and most strongly from Ray Paret '68. He moved that Inscomm conduct this poll, but withdrew his motion following protests from Inscomm members that they had no intention of approving any poll on Vietnam without sufficient time to study it.

#### 'Four yesses... one nod'

Horvitz explained that when the idea of a poll on Vietnam was first proposed to Inscomm by Jim Leass '68, representing the Committee to End the War in Vietnam, the Executive Committee dismissed the motion. On the other hand, a poll drawn up and conducted entirely by an impartial group was much more appealing. Dave Peterson '68, Executive Committee member, disclosed that the Executive Committee approved the idea—"four yesses and one nod."

**STAMP IT!**  
IT'S THE RAGE  
REGULAR MODEL  
ANY \$2  
3 LINE TEXT  
The finest INDESTRUCTIBLE METAL  
POCKET RUBBER STAMP. 1/2" x 2".  
Send check or money order. Be  
sure to include your Zip Code. No  
postage or handling charges. Add  
sales tax.  
Prompt shipment. Satisfaction Guaranteed  
**THE MOPP CO.**  
P. O. Box 18623 Lunar Square Station  
ATLANTA, GA., 30326

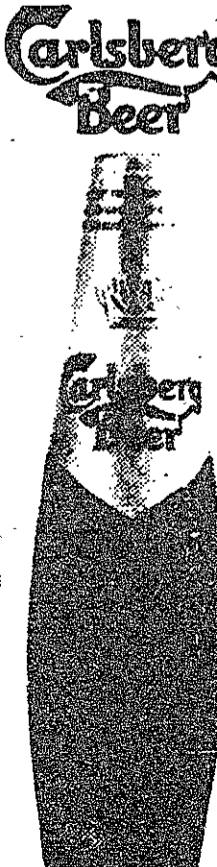
**Resumes**  
by  
**Parnell**  
"The calling card to success for  
career-minded people in all  
positions and professions."  
Let us highlight your EXPE-  
RIENCE and special talents in a  
Resume by PARNELL; and help  
you start or advance your career,  
explore new fields, and open the  
door to job opportunities here and  
abroad. Carefully designed &  
printed for men and women in all  
fields.  
MAIL ORDERS ACCEPTED  
PARNELL PERSONNEL CONSULTANTS  
15 Court Square (off Court Street)  
BOSTON, MASS. 227-3676

**indian ali akbar ragas khan**  
Last U.S.A. appearance  
before return to Calcutta!  
**SYMPHONY HALL**  
8:30 p.m. WED. NOV. 29  
Tickets: \$2-\$3-\$4-\$5  
Reservations — 266-1492

**Carlsberg Beer**

**How to be a nice guy and an all-around good sport.**

**Drink Carlsberg — the mellow, flavorful beer of Copenhagen.**



**PROGRAMMERS**  
Part or Full-Time

If you have 360 BAL, COBOL, or 7070 Autocoder programming experience, we would like to talk to you. Work first or second shift with this rapidly expanding computer consulting firm. Call 959-4444 and ask Mr. Silk for an appointment; or write

**Business Computer Services**  
210 Needham St., Newton Upper Falls

**Christmas in California**  
★ Spend your vacation in California this year  
★ Board a Non-Stop Jet  
★ 2 bags free plus carry on  
★ Return any time\*  
★ Save \$80 over regular air fare (\$200.00 up & tax)  
Call **PARKER TRAVEL BUREAU**  
(opp. BU) 708 Comm. Ave.  
566-4087 - CO 6-0210  
NOW—Reservations are limited so reserve your seat now  
\*min. stay 10 days

# Krugman captures UMOC



Photo by Al Goldberg

"Klondike" Ed Krugman won the Ugliest Man on Campus Contest this year with \$369.61.

"Klondike" Ed Krugman has been chosen "Ugliest Man on Campus" by the popular acclaim of the MIT community. Krugman scored a smashing victory, polling \$369.61 worth of votes. He outscored his nearest opponent, Peter Wulkan, by \$137.19. Krugman's victory has earned him a trophy, a UMOC Key, and a dinner and movie for two.

Voting was heavy in the contest, with a total of \$927.66 worth cast. Last year's drive netted \$558.28. Alpha Phi Omega will donate the proceeds to the American Cancer Society.

Krugman was not the only one considered ugly. APO polled \$24.49 for itself. Another \$8.27 went for the "Blob," another APO front. The final figures

1. Edward Krugman '70	\$369.61
2. Peter Wulkan '68	232.42
3. Alan Chapman '70	122.58
4. John Salerno '71	99.22
5. Gregg Erickson '69	66.07
6. Alpha Phi Omega	24.49
7. Blob	8.27
8. Irving G. Sassoon	5.00
<b>Total</b>	<b>\$927.66</b>

## Activities Spotlight

### American Management Ass'n

(Activities Spotlight is a regular feature of *The Tech*, under the direction of the Public Relations Committee on *Ins-comm.*)

Not so many people outside of the field of management have heard of the American Management Association. The AMA, however, is a nation wide association composed of over twenty-one million business managers. The membership is limited to professional managers, but last year, MIT became part of a major experiment by founding a campus AMA.

This "campus form" attempts to bring the advantages of the AMA to the MIT students. The AMA itself is similar in structure to the American Medical Assn. in the respect that both aim to further education among their members.

#### Problems & programs

MIT's "campus form" consists of forty-two members of which only about one-third are management majors. The faculty advisor to the club is Professor Valley of the Physics department. The branch is for students who have given thought to problems and programs in management. Mem-

bership is limited to juniors and seniors.

The AMA's main function is to engage different speakers from the business world to talk about matters of interest in management. There are approximately ten meetings over the course of the year, four of which are organized by the regular AMA, with the remainder planned by the club members. Meetings are normally held on Wednesday nights, with the juniors and seniors sometimes splitting into separate conferences.

Last year's meetings were held in the conference room of Arthur D. Little Co.; this year they have moved to the Student Center. The format of the meetings is basically as informal as possible. The speakers are not straight lecturers, and they answer questions whenever they arise.

#### Past speakers

Some of last year's speakers included John Fox, past president of the United Fruit Co., and now chairman of the board; Richard Morse of the Sloan school, past president of National Research; J. P. Barger, president of Dynatech; and Prof. Schein of the Sloan school.

The most recent meeting featured Waldo Newcomer, Head of the Research and Development Division of A. D. Little Co. He discussed research and development to a joint meeting of juniors and seniors. Other meetings this semester will be held on November 29th and December 13th.

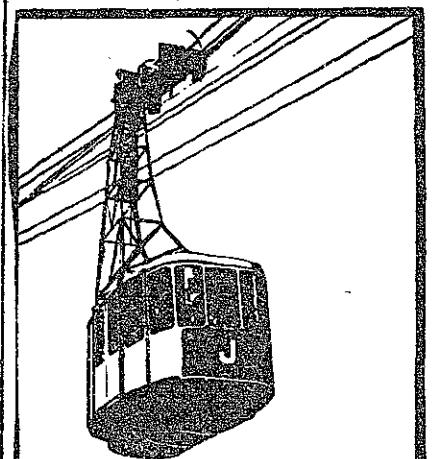
#### Officers and dues

The club's hierarchy consists of a president, two vice-presidents and a Secretary-treasurer. If a student wishes to join MIT's "campus form" of the AMA, he must fill out an application and submit it to the club. Membership is limited to about sixty students.

The annual dues of \$15 cover costs to the parent AMA and refreshments and transportation to the meetings. This experimental "campus form" might very well set a trend towards a national collegiate branch of the AMA.

#### FOREIGN CARS

Austin-Healy 3000 Mark II,  
1964, excellent condition.  
Call after 3 P.M.:  
**262-7683**



At  
**Jay Peak, Vermont**  
all this  
and Walter too!

- \* New 61 passenger tram triples your skiing time
- \* Walter Foeger's famous Natur Teknik Ski School
- \* Instant TV replay
- \* Over 40 trails and slopes
- \* East's highest snow-making area
- \* Attractive ski week rates

**JAY PEAK**  
NORTH TROY, VERMONT  
WORLD'S MOST PROGRESSIVE SKI RESORT  
Phone: (802) 988-2611  
Member Eastern Townships and Border Ski Region

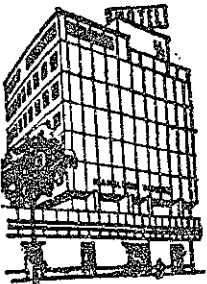
#### VISITING RELATIVES ENJOY HAMILTON HOSPITALITY

- \* Attractively appointed rooms with kitchenettes
- \* Royal Colony Restaurant
- \* Rooftop Kismet Lounge
- \* Skyline Health Club
- \* Function Facilities—10 to 200 persons

For reservations phone 734-7400

#### HAMILTON HOUSE MOTEL

1110 Commonwealth Ave., Boston  
(3 Blocks from B.U. Bridge)



#### BEHOLD THIRD POWER

#### SCUBA DIVING CLASSES

Coed — Boston YMCA  
KE 6-7940

# Sanders is the systems company that doubled its sales volume

## Find out how you can benefit

Sanders' sales jumped last year from 66 to over 139 million dollars. The growth came from within, from sales of new systems, programs, and equipment we designed and developed.

Behind this success story are 150 interdisciplinary teams, working on electronic, space, oceanographic, and basic research problems. You never stop learning, at work with men from other fields, at in-plant seminars and courses, at nearby universities. No technological obsolescence.

CALL your placement director for an interview here next week with a Sanders representative. The Sanders story makes good listening.

CREATING NEW DIRECTIONS IN ELECTRONICS

**SA SANDERS ASSOCIATES, INC.**

\* T. M. SANDERS ASSOCIATES, INC. An Equal Opportunity Employer M/F

## X-ray sources pinpointed by rocket-borne detector

(Continued from Page 5)  
a result of the synchrotron radiation mechanism, which requires electrons to have energies close to 10,000 Bev. Another possibility is that a plasma of a temperature of about 50 million degrees emits the X-rays. It does seem, however, that the radiation is connected with the gas jet, which is some 3000 light years long, about one tenth the length of the galaxy as a whole.

The results of the experiment locate the X-ray source in a region two degrees in diameter, centered about half a degree from the center of M-87.

In another paper presented by Dr. Spada, the locations of X-ray sources in Sagittarius were pinpointed. These data have been turned over to astronomers at Mt.

Stromlo Observatory, Australia, and Cerro Tololo Observatory in Chile, in the hope that some of these sources may be associated with visual objects. Photographic plates are presently being analyzed for unusual objects at these positions, particularly for blue flickering star-like objects similar to one previously identified as the ScoX-1 X-ray source.

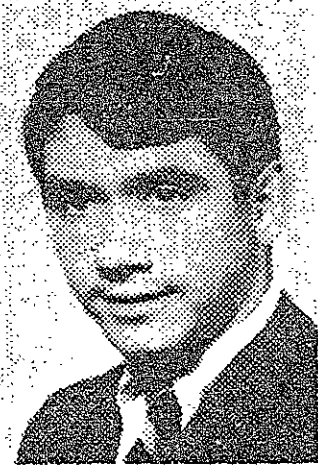
ScoX-1 is the brightest known X-ray source, and is probably closer than the Crab Nebula (distance: about 5000 light years). The intensity of M-87's X-rays was about 1/300th that of ScoX-1.

M-87 (The M stands for Messier's catalog of non-stellar objects, compiled in the last century) is one of the clusters of galaxies in the constellation Virgo. Just as stars tend to cluster themselves into groups (galaxies and other, smaller groups) galaxies themselves seem to be grouped into larger aggregates. The gas jet issuing from M-87 has often resulted in its being described as exploding when in fact the cause of the jet is unknown.

**McClellan's Moving and Storage**  
Coast-to-Coast Moving  
24-Hour Service to New York, New Jersey and Pennsylvania  
Phone 522-8720

# Report to your local wing commander

JEFFREY SILVERMAN  
TWA Campus Representative



He has command of a 172-jet fleet and the whole world of TWA. He's waiting to set you up for an adventure—any place in the U.S., Europe, Asia or Africa.

If you're shopping for facts and figures or a 50/50 Club card, good for half fare travel in the U.S., he's the man to see.

You know what they say about all work and no play. So call Jeff at 734-7683. And start packing.

P.S. Attention College Bands, Combos, Vocal Groups. Don't forget the National Championships at the 1968 Intercollegiate Jazz Festival sponsored by TWA. For information write: J.F.P., Box 246, Miami Beach, Florida 33139.

Welcome to the world of **TWA** Trans World Airlines®  
...the all-jet airline

®Service mark owned exclusively by Trans World Airlines, Inc.

## drama . . .

# 'Iolanthe' delights crowds in Kresge

By Barry Mitnick

"Loudly let the trumpet bray! Tantantara! Proudly bang the sounding brasses! Tzing! Boom!" The peers' chorus of self-praise is perfect praise for the Gilbert and Sullivan Society production of "Iolanthe" that graced Kresge's stage last weekend. It's "bow, bow" to the sneering "paragons of legislation," and "bow, bow" to the "dainty little fairies" who harassed them.

### Rudy Cavorts

Let Gilbert write his own review. Richard Rudy '68 as the Lord Chancellor who sits "all day, giving agreeable girls away" was "the true embodiment of everything that's excellent." And what "a pleasant occupation" to watch Rudy cavort, teeter, and totter through "When I went to the Bar as a very young man" or "When you're lying awake with a dismal headache." Or to listen to stirring renditions of "Spurn not the nobly born" by Jeffrey Weisenfreund as Lord Tolloller and "When Britain really ruled the waves" by Roberto Gaston '70 as Lord Mountarat. The trio of "Faint heart never won fair lady" by the three lords provoked a response that nearly cracked Kresge's eggshell dome Saturday night. Or to "joint in a measure expressive of pleasure" to describe Karl Deirup's animated performance as Strephon, the Arcadian shepherd in love with Phyllis, a ward in Chancery. Or to wonder with Richard Butler as



Photo by Bill Ingram

Phyllis, played by Susan Waldman, is wooed by the House of Lords, led by its Lord Chancellor, Richard Rudy '68 (right), after rejecting Strephon.

Private Willis, "That every boy and every gal/That's born into the world alive/Is either a little Liberal/Or else a little Conservative."

### Appreciative audience

If the House of Lords was "extremely attentive" to Susan Waldman as Phyllis, so was an appreciative audience. Miss Waldman swirled around the stage, spontaneously flirtatious or demure, delighted or depressed. Her "Good morrow, good lover!/Good lover, good morrow!" floated airily over the crowd. Constance Miller as the voluminous Fairy Queen who could "dive into a dewdrop," "nestle in a nutshell," or "gambol upon gossamer," sung well though reportedly suffering from a sore throat. And Linda Houpt's radiant Iolanthe gave substance to Strephon's claim that "When darky looms the day,/And all is dull and grey,/To chase the gloom away,/On thee I'll call!"

### Flowing direction

Bruce West's poles topped with latticework doubled admirably as the trees of the "Arcadian landscape" of Act I and the gothic excesses of Act II's "Palace Yard, Westminster." Make-up design by Judy Kelly created some very disdainful lords, and the costumes of Margaret Tobin packed the stage with colorful capes. The orchestra, conducted by Elizabeth Chase, although not up to last spring's standards, did a workmanlike job.

Nancy Rainier's direction was flowing and imaginative. The entrance of the lords in Act I was a study in contrasting movement; the finale of the first act, vibrant and alive.

"Iolanthe," in a word, was enchanting.

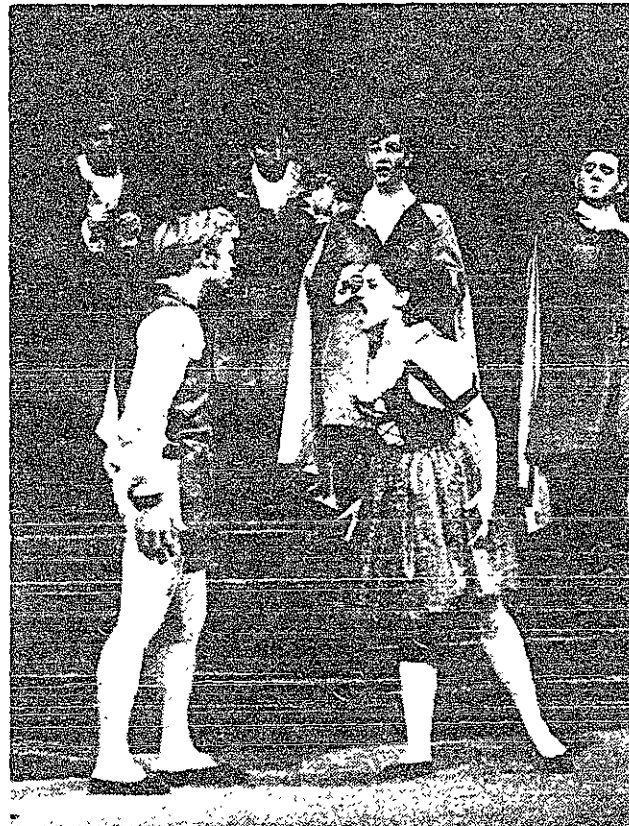


Photo by Bill Ingram

While the sneering lords look on, Phyllis doubts that the seventeen-year-old appearing Iolanthe is really twenty-five-year-old Strephon's mother.

# You Are Eligible.

As a member of a group living or working in Massachusetts, you are eligible for SAVINGS BANK LIFE INSURANCE, the choice of 400,000 prudent men and women with an eye for exceptional value. And once you become a SAVINGS BANK LIFE INSURANCE policyholder, you can keep your policy, no matter where you work or live.

To take advantage of this unique opportunity now, visit your Mutual Savings Bank and ask for personal counseling about the best SAVINGS BANK LIFE INSURANCE policy for you. It could be the most important step you ever take toward personal financial security.

Founded in 1907 as a public service, SAVINGS BANK LIFE INSURANCE is sold only through Mutual Savings Banks direct, for low cost. And although not guaranteed, dividends have been paid every year since 1908, to reduce cost still further.



Only your Mutual Savings Bank offers you Savings Accounts, Mortgage Loans, and Savings Bank Life Insurance.

# Turntable Talk

The College Concert of Pee Wee Russell and Henry Red Allen  
by Pee Wee Russell and Red Allen, Impulse A9137

By Ray Hagstrom

Do you remember the concert a year ago, the one with Henry Red Allen and Pee Wee Russell? It was just a little over a year ago at Kresge Auditorium. Quite a change from the usual fare of avant-garde saxophone players. Both men date from the early days of jazz—before the Swing Era. The performance was taped, live, and released recently on Impulse Records.

This concert and record release are milestones in jazz history, the history of an era which will be soon gone. This was the first and only joint performance by Allen and Russell. Now important, this was the last recorded concert by Henry Red Allen whose death early this year closed one of the great careers in jazz.

Certainly, this album is not "with it" as such. Nonetheless, it is an interesting artistic effort as worthy as the present state of the art. Henry Red puts on a great performance, encapsulating his career. His renditions reflect the strongest influence on his career—the stylistic impact of Dixieland and Louis Armstrong in particular.

One of the features of the album is a vocal by Allen, "Body and Soul"—strongly reminiscent of Louis Armstrong. Pee Wee Russell also comes through like the Old Pro that he is, particularly on his theme "Pee Wee's Blues." These are two of the men who made jazz.

'Scotch and Soul' by Rufus Harley Atlantic 3006

Rufus Harley bills himself as "The World's First Jazz Bagpipe Player." I think no one will contend this. Rufus Harley is also a saxophone player, and a good one. His latest album, "Scotch and Soul," shows both of these talents. He uses conventional scales and accompaniment with his new instrument. We admire his originality, but think his bagpipe is more of a gimmick than a serious attempt to explore a new medium.

## Debate teams capture first places in meets at Emerson, Brown

Almost all honors were captured by an MIT debate team in a Greater Boston Forensic Association tournament held at Emerson College Saturday.

Michael Hoffman '70 and Robert Parker '70 were the only undefeated affirmative team, while Doug Gordon '71 and Josh Cohen '70 were the only undefeated negative team. Individually, Gordon and Cohen took second and third ranked negative speakers. With this record, MIT had little

trouble capturing the best team award.

An all-freshman debate team with Craig Richardson, Joe Angland, Steve Givot, and Alan Fuchs took the outstanding forensic team award at Brown University earlier this month.

**FOR SALE**  
Cadillac Convertible, 1955, coral color, beige and white leather, white top, 4 new tires plus other new parts. Good operating condition. Radio. Full power.  
**OFFER — 484-3683**

## movie...

# Midnight movies at Kenmore Square

By Jack Bernstein

Night people of the world unite! We have nothing to lose but our sleep.

This past Friday in the cold drizzly rain the Cinema-Kenmore Square inaugurated a midnight film festival to run over the next four weeks. It seems very strange that Boston, with such a large college population and other potential night people has so little going on at night. Just a year ago even this festival would have been impossible, but with the new 2 am closing time, entertainment can continue, at least on Friday nights (we won't bother to discuss the archaic midnight closing ritual for Saturday).

Crowd in spite of rain

Between 50 and 100 people waited in line in the rain, while those foresighted enough to make reservations picked them up and walked inside. There was an air of expectancy and a feeling of participating in something new in the audience, with neither the rain nor the cold affecting spirits adversely.

The choice of underground films for a midnight festival deserves some comment; for although both Harvard and MIT have good film societies which show a fair number of experimental or underground films, their shows are generally confined to early weeknights. The adoption of this material by a commercial theatre indicates that the student film societies have had their effect in establishing an audience for these films. In addition the commercial theatre can, by virtue of its location and advertising placement,

reach a new audience for these films.

High quality films

The particular films screened Friday were of unusually high quality for the underground and perhaps indicate a direction of better technical quality among the film makers. Kuchar's "Hold Me While I'm Naked" was a humorous and poignant display of post-adolescent sexual frustration and unresolved oedipal feelings. "Relativity" by Ed Emshwiller might very well be the most important film to come out of the underground and I hope it will be screened again in the area for those who missed it. The strength of this movie is, as the title implies, its ability to deal with technical issues and artifacts as well as the organic.

Anger's "Fireworks" and "Time of the Locust" both dealt, in their own way, with the ever

present themes of sadism and violence. At the very least, the underground provides for a different interpretation of these themes than the glorification they receive on television and in the news. Messages aside, though it was most gratifying to this night owl to see so many people show up for the show, there certainly is demand for more late night entertainment in Boston. And who knows, more activity in this direction may lead to a change in the blue-laws and, dare we say, a more realistic approach to the college age population by the city of Boston.

**HOUSE OF ROY**  
REAL CHINESE FOOD  
Open daily from 4 p.m. to 2 a.m.  
Food Put Up To Take Out  
25 TYLER STREET, BOSTON 11  
**DE 8-8882**

**COLUMBUS DISCOVERED**  
AMERICA SEARCHING  
FOR THE TAJ MAHAL

For Authentic Curries  
Visit

**The Exotic  
TAJ MAHAL**

14-A Eliot St., Cambridge  
"The Only Indian Restaurant  
of Greater Boston"

Reservation for Lunch & Dinner

**354-4764**



**Love**



GARDEN OF JOY / The Jim Kweskin Jug Band R 6266

from *reprise*

# Did you like beer the first time you tasted it?

A lot of people say no. They say beer is one of those good things you cultivate a taste for... like olives, or scotch, or kumquats.

Maybe. But we think it makes a difference which brand of beer we're talking about.

We think Budweiser is an exception to this "you've gotta get used to it" rule. It's so smooth. (You see, no other

beer is Beechwood Aged; it's a costly way to brew beer, and it takes more time. But it works.)



So whether you're one of the few who has never tried beer, or a beer drinker who suddenly feels the urge to find out why so many people enjoy

Budweiser, we think you'll like it.

From the very first taste.

# Budweiser

...best reason in the world to drink beer

ANHEUSER-BUSCH, INC. • ST. LOUIS • NEWARK • LOS ANGELES • TAMPA • HOUSTON

# London omnibus advertises Theater Company of Boston

TUESDAY, NOVEMBER 21, 1967

THE TECH



The red London omnibus parked outside the main building last week was part of a campaign by the Theatre Company of Boston to advertise the opening of their new season. The bus dispenses tea, crumpets, and tickets.

The Theater Company of Boston displayed its answer to the MBTA last week in the form of a red double-decker bus from London. The bus will be visiting several locations in the Boston area, serving tea and crumpets on the upper deck and advertising the opening of the Company's production of Harold Pinter's "The Dwarfs."

Scenes from this play, and Heathcote Williams, "The Local Stigmatic" are displayed on the bus. These displays, according to a TCB spokesman, should "inspire all who visit the bus to dash downtown for tickets. To prevent a traffic jam from occurring in front of the theater, tickets will be available on the bus."

The Theatre Company of Boston will open its fifth season Nov. 30 in the former Fenway movie house, at 136 Massachusetts Ave. The hall holds 400, twice the capacity of their old theater.

In addition to "The Dwarfs" the season includes John Arden's "Left-Handed Liberty," Sartre's "The Devil and the Good Lord," Robert Lowell's "Phaedra," and three new comedies by young American playwrights.

The bus will be returning to MIT sometime this week.

## IFC Blood Drive collects record 334 pints for use in hemophilia treatment

The IFC Hemophilia Blood Drive this year was the most successful yet, setting a new record for number of pints of blood donated by members of the Institute community. The drive this year collected 334 pints, almost 40 more than the 297 pints collected two years ago and 55 more than last year's total.

Blood Drive Chairman Reid Marsh '68 felt that this year's drive had not suffered as much from absenteeism as in the past. After 520 original signups, about 425 were cleared to give blood. Of these slightly more than 334 showed up (some were disqualified there) about 30 of whom had

not been scheduled at first. Last year, although about 550 signed up, only 279 pints were collected.

One member of the Blood Drive staff was absent, however: Thursday, the second day of the drive, the doctor who was to have been on duty called in sick, and some delay was experienced until a substitute could be found.

The blood collected at the drive will be processed by the Red Cross, and credited to the account of the New England Hemophilia Association. The Red Cross will separate the blood into AHF (the clotting factor required by hemophiliacs), plasma, and other needed derivatives. Any hemophiliac who needs blood in this area will be able to receive it free by drawing on the Association's account.

**Club Henry IV**  
Cuisine par Pierre—  
Chef, Prop.  
(Formerly with the French Line)  
Lunch 12-2 Mon. thru Sat.  
Dinner 6-9 Mon. thru Thurs.  
Open Friday till 9 p.m.  
Saturday till 10 p.m.  
(Closed Sunday)  
864-9061 354-8388

**Typing - Xeroxing**  
Specializing in term reports, theses, dissertations.  
Quick and Accurate Service  
Office hours 9-5  
Evenings and Weekends: For appointment call 566-3610  
**ARISTA SECRETARIAL SERVICE**  
318 Harvard Street, Brookline  
Clip and Save

## Sings at Unicorn

# Now blues for Dave Van Ronk

By Jack Donohue

"Van Ronk, why did you go electric?" "It's cheaper than steam."

Dave Van Ronk, the blues singer with the incredible bullfrog voice, has got a brand new bag. His raspy growl now echoes to the backing of a genuine electric blues band, the Hudson's Dusters.

### Sellout?

Just another folk singer coping out on the idiom? One immediately thinks of the legions of folkies who've abandoned acoustic for electric, often with disastrous results. We hope that he, too, hasn't gone the way of amplified mediocrity. He hasn't.

The song which opens his first set, "Keep Off the Grass" (a 'straight' song?) is an electric shock. The loud staccato rhythm overrides the vocals, which he shares with lead guitarist, Dick Woods, and the organist, known simply as Pot. Remembering Van Ronk at Newport, you may at first be skeptical, but once you get into it, you see that this sound is not just electrified folk blues. Van Ronk is doing something different.

### Modern blues

At the risk of being branded a pigeonholer, I might call it Twentieth Century Blues. But what is Blues? Blues is a hangup. Blues is 'a ten dollar woman and a five dollar man.' Muddy Waters

There will be a Nationwide Charities bridge game on Friday sponsored by the Instrumentation Lab. In this competition, players will play the same set of hands all over the country on this night. These will then be analyzed by a group of experts, with the ratings being made available to all the players.

This year, the competition will be open to students, and anyone else connected with MIT in any way at a reduced rate. All pairs should be in the Student Center by 7:45 pm Friday. Arrivals after this time must bring full tables; individual pairs will not be accepted.

For further information, contact Mike Kay at x5711 during the day or 924-7653 at night.

**STUDENTS**  
10% Discount with this ad and I.D. card  
**JAY'S MOTOR SERVICE**  
Foreign Car and Motorcycle Specialists  
10 Spurr St., Allston 254-9383

**THE CODON CORPORATION**  
special computer system  
Several full and part-time positions exist for:  
real-time systems analysts  
programmers  
control systems engineers

Please call or write:  
**THE CODON CORPORATION**  
Post Office Box 137  
Cambridge, Mass. 02140  
**492-6870**  
An Equal Opportunity Employer

THINKING VOYAGE  
Our Reputation is your Guarantee!  
Overseas Delivery Of Course  
**DALZELL**  
MOTOR SALES  
Rte. 1, Dedham  
(Dedham Plaza)  
329-1100

sings of the eternal hangups — a lowdown woman, a "no count" man. Van Ronk, who got his start in the Negro blues tradition, takes blues to suburbia. In songs like "Mr. Middle" he tells the hang-ups of the modern man. His electricity, unlike Butterfield and his ilk, mirrors an electric society. The lead guitar sets the frenetic pace, symptomatic of the human rat race.

This is not to say that he has abandoned the old blues altogether. Those who saw him during his two week stint at the Unicorn can verify that this is not at all the case. His material is varied, ranging from blues standards like "Statesboro Blues" (Tom Rush fans will remember this) to "Alley Oop" (a novelty hit of the Evergreens several years ago).

### Hudson's Dusters,

He is ably supported by the Dusters, who alone would be a fine blues band. Ed Gregory, the bassist, performs some impressive solos. Pot plays an inspired organ. Dick Woods is no Bloomfield, but then who is? And the drummer makes up for what he lacks in imagination with enthusiasm.

I can't give an unqualified blessing, though. While he revitalizes

the unlikely "Swingin on a Star" with his raucous roar, one feels that that song by Joanie Mitchell (who wrote "The Urge for Going") could best be done by someone else. He nonetheless fascinates us with the sound of his voice, if not the music.

His "Swamp" is a riotous stomp, but those who recall the old Van Ronk singing "Cocaine" with acoustic guitar, will doubt the efficacy of the electrified version.

I'm sure that these are just growing pains, and that his upcoming album on Verve Forecast will be a musical experience not to be missed.

**Get high with a little help from your friends.**

YOU HAVE A FRIEND AT  
**THE ELECTRIC CIRCUS\***  
ST. MARKS PLACE BETWEEN 2ND & 3RD AVES. EAST VILLAGE, N.Y.C.

NOTE: Represent the Electric Circus on your campus! Sell tickets and arrange private parties. Earn commissions! Call: (212) 777-4466, or write: Ed Plum at the above address.

\*TM © 1967 Electric Circus of New York Inc. Pat. Pend. Coffee in the Think Tank

**Harvard Square**

Last times today!  
Antonioni's "ECLIPSE"  
5:15, 7:30, 9:45

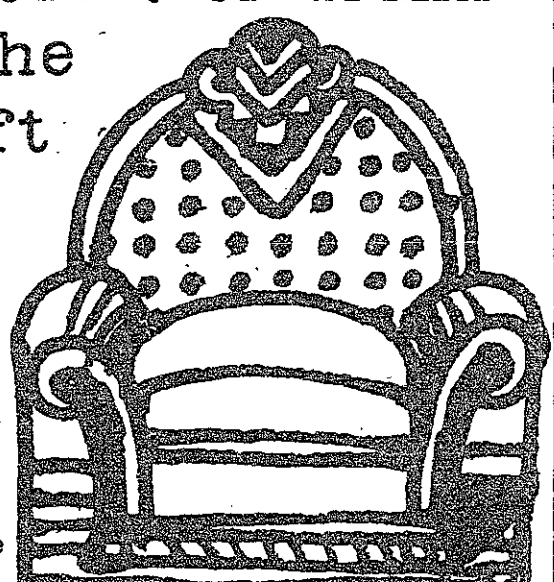
Wednesday thru Saturday  
Godard's  
"Masculine Feminine"

Next Sun.-Mon.-Tues.  
Godard's  
"The Married Women"

BRANDS

Last times today!  
"THE JOKERS"  
plus  
"PRIVILEGE"  
Starts tomorrow:  
First Boston showing of  
LUIS BUNUEL'S  
"THE EXTERMINATING ANGELO"  
3:10, 6:20, 9:40  
plus "VIRIDIANA"  
1:30, 4:45, 8:00

Don't just sit there, Wallace Middendorp. Make a noise. Or drink Sprite, the noisy soft drink.



What did you do when Joe (Boxcar) Brkczpmuluj was kicked off the football team just because he flunked six out of four of his majors? What did you do, Wallace Middendorp?

And when the school newspaper's editors resigned in protest because The Chancellor wouldn't allow the publication of certain salacious portions of

WALLACE MIDDENDORP SAT HERE

"Night In a Girl's Dormitory" you just sat, didn't you? You've made a mockery of your life, Wallace Middendorp! You're a vegetable. Protest, Wallace Middendorp. Take a stand. Make a noise! Or drink Sprite, the noisy soft drink.

Open a bottle of Sprite at the next campus speak-out. Let it fizz and bubble to the masses.

Let its lusty carbonation echo through the halls of ivy. Let its tart, tingling exuberance infect the crowd with excitement.

Do these things, Wallace Middendorp. Do these things, and what big corporation is going to hire you?

**SPRITE. SO TART AND TINGLING. WE JUST COULDN'T KEEP IT QUIET.**

**SKI EQUIPMENT**  
 Large Variety - Famous Brands  
**Tennis & Squash Shop**  
 67A Mt. Auburn St., Cambridge  
 Opp. Lowell House TR 6-5417

**EXPERT TYPING**  
 Professional Electric Typing of  
 Term Papers - Theses - Dis-  
 sertations  
**PHONE: 244-6667**  
 Bertha S. Mintz  
 Secretarial Services  
 - clip and save -

Taken from legend

# Tech Show goes classic

This year's upcoming Tech Show is a classic. That is, it takes its theme from a Greek classic, Euripides' "Alcestes." In the original, Admetus, in return for services rendered, is given a dubious blessing by Apollo. He may prolong his life indefinitely, but only by offering someone to die in his place. Finding no one but his faithful wife, Alcestes, he offers her. Heracles then enters the picture, eventually agreeing to go down to the underworld and bring Alcestes back.

Though its subject is not Tech-oriented, as has been true of most past productions, it is conceived, planned, and will be executed completely by the student body (with a distaff assist from the local girls' schools).

Deloss Brown '63, the director, and Ellen Greenberg '68, are running the show. The show's official advisor is Prof. Albert Gurney, winner of last year's Everett Moore Baker Award.

**Wry twist on classic**  
 Deloss Brown's version, a musical comedy, adds several wry

**People needed**  
 The show is an MIT baby.

What the show needs now is people. People to perform in the chorus, actors, and mostly non-performers to handle the finances, design and build the set, and the like. There is plenty of room, and all that is required is an interest and willingness to work. There will be no rehearsals until second term, and the show will be performed March 1, 2, 7, 8 and 9.

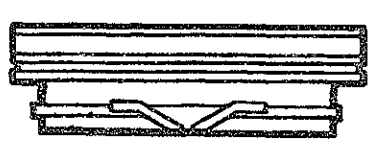
Anyone at all interested should come to the auditions, which will be held Nov. 28, 29, and 30 at 7:30 pm in the East Lounge of the Student Center. Any questions can be answered by Miss Greenberg at x5983 or 876-3177.



*Tech Coop Optical*

**NEXT TO CUSTOMER SERVICE IN BOOK DEPARTMENT**  
 Sunglasses, tailored to your prescription in the finest of Bausch and Lomb and American optical lenses.  
 Quality and Service is Our Byword - Patronage Refund  
 Ophthalmologists prescriptions are filled promptly - accurately.  
 Excellent selection of frames for Men-Women-Children.  
 Office Hours: Monday - Friday, 8:50 to 5:30 - Lunch 2-3 (Closed)  
 Saturday, 9:20 to 1:00  
 Phone 491-4230, Ext. 59 or from MIT dial 8950

**THE TECH COOP**  
 IN THE M.I.T. STUDENT CENTER  
 84 Massachusetts Avenue, Cambridge, Mass. 02139



# Engineers Scientists (all degree levels)

Would you like a 300-company-wide career?  
 See us on campus Nov. 29 and 30.

See the **Standard Oil Company (New Jersey)** people and look into wide-scope careers in oils, chemicals, plastics, cryogenics, minerals. With our 300 worldwide affiliates we're uniquely decentralized - permitting prompt recognition of your work. Advancement can be intercompany and intracompany, worldwide and domestic, with opportunity enough to last a lifetime! Make an appointment with your placement officer now to see a representative of these operating affiliates.

Would you like to start with **No. 1?** Humble Oil & Refining Company supplies more petroleum energy than any other U.S. oil company. We're literally No. 1 - "America's Leading Energy Company" - with wide-scope career opportunities for people in every discipline, at every degree level. All phases of oil and gas exploration, production, refining, transportation, marketing and management - as well as oil and chemical research.

## Humble Oil & Refining Company

Would you like to start with one of the leading chemical companies in the U.S.? In Enjay Chemical Company's decentralized manufacturing, marketing and business operations you get the benefit of a large corporation's resources and the environment of a small company. You will have a chance to develop a management as well as a professional career, either in Enjay's domestic chemical activities or in the international operations of our affiliate, Esso Chemical, worldwide.

## Enjay Chemical Company

Would you like to start with one of the world's largest research companies? Esso Research and Engineering solves worldwide problems for all affiliates of Standard Oil Company (New Jersey). Wide opportunities for basic and exploratory research and development of products and processes, engineering research and process design, mathematical research.

## Esso Research and Engineering Company

Would you like to start with the world's largest production research organization? Esso Production Research Company does analysis and design for the worldwide drilling and production activities of Standard Oil Company (New Jersey) affiliates. Pioneering research into every phase of drilling and production of petroleum, natural gas and liquids. Heavy emphasis on reservoir engineering, using computers.

## Esso Production Research Company

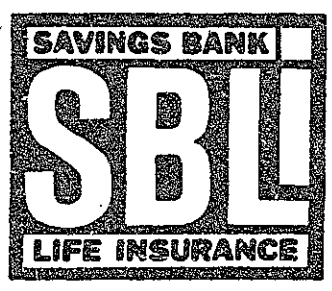
Equal opportunity employers.

## You Are Eligible

If you live or work in Massachusetts, you are eligible for low cost, high quality life insurance in a mutual organization with an outstanding record of financial soundness.

Founded as a public service in 1907, Savings Bank Life Insurance is sold only through Mutual Savings Banks direct to keep cost low. And although not guaranteed, dividends have been paid to policyholders every year since 1908, to reduce cost still further.

Savings Bank Life Insurance policies are available in a wide variety of forms. To find out what Savings Bank Life policy will meet your needs best, visit a mutual savings bank and ask for personal counselling about Savings Bank Life Insurance. It could be one of the smartest financial moves you'll ever make.



CAMBRIDGEPORT SAVINGS BANK

RIGHT IN CENTRAL SQUARE Cambridge

864-5271

## Intramural sports

## Betas finish one-two in wrestling

By Joel Hemmelstein

Beta Theta Pi swept to their second straight intramural wrestling championship last weekend.

The Betas "B" team finished second in a tie with Sigma Alpha Epsilon "A." Utilizing depth and ability, the Betas placed eight men in the finals, including both competitors in the 160 and 167-pound brackets. Beta "A" totally outdistanced all competitors with 65 points while the B team amassed 51. Pi Lam and Zeta Beta Tau tied for fourth with 39.

PLP takes 115, 123

Marvin Mendelsohn '69 (PLP) took the 115 pound championship with a first period pin over Tom McKenna '71. Eight pounds heavier teammate Ken Lord '71 grabbed the medal from Beta Lou Tsien '71 by a decision. Gary Gut '70 (ZBT) jumped out to a quick lead over Juan Silva '71, Bexly, and maintained the advantage until the end in the 130-pound class.

In the 137-pound bracket, Steve Bishko '68, (BTP) probably the meet's outstanding wrestler, marched through all competition to gain the title with a decision over Bob Takahashi '69 (PLP). At 145, George Biehl '70 (SAE) edged Fred Milder '71 (ZBT). Fellow ZBT Tom Hafer '70 outpointed Dale Stahl '68 (DU) in the 152 pound category.

The Betas monopolized the 160 and 167 brackets where the "A" team opposed the "B" team for the gold medal. For tactical reasons, the B team was awarded the points. At 160 Don Pryor '68 and Tom Chen '68 comprised the final while seven pounds heavier,



Photo by Tim Finin

Steve Bishko '69 (BTP) works for a pin in the finals of the 137-pound class against Bob Takahashi '69 (PLP). Bishko won this match and placed second in the 138.5-pound Olympic class. Beta 'A' easily won the IM title, and their 'B' team tied for second.

Jim Jamieson '70; Jim Reid '68 made it to the last match undefeated. At 177, Chris Davis '69 (SAE) pinned Steve Haase '68 (LCA) for the championship. At 191, last year's champ Bob O'Donnell '66 (BTP) suffered a torn rib cartilage and forfeited to Steve Reimers '68 (SAE). Frank Ching '70 (TC) won the heavyweight division over Wendell Iverson '69 (BTP).

The meet was run through the semifinals Friday night where the many matches generated tremendous enthusiasm. Three of the

semifinal matches ended in ties after the additional overtime periods. At 145 the eventual champ, George Biehl, took a referee's decision over Dave Peterson '68. 152-pound Dale Stahl and heavy-weight Frank Ching also advanced to the finals on highly contested referees decisions over Lee Brettman '69 and Pete Dinsdale '68, respectively.

## How They Did

Rifle

MIT (V) 1284, Boston State 1058

Rugby

Fairfield 6, MIT 3

## Burton, Math score wins in first round of IM Bridge

Favored teams Burton and Math "A" rolled through the first round games of the Intramural Bridge tournament, handily defeating Senior House "B" and Pi Lambda Phi "B" respectively. In other games, Senior House "A" stopped Phil Sigma Kappa, and Delta Tau Delta pulled off a big upset by edging Tau Epsilon Phi "A".

First round games still must be played by Thanksgiving. The league champions will be determined by March 11, with the finals being held late in the second term.

In the fractional point game played Saturday, East-West winners were; (1) Garret Sheldon '68 and Brian O'Connell '71; (2 tie) Gary Felsner '71 and Mark Gilman '71; and Everett Ayers

'71 and Tom Rand. North-South winners were: (1) Lewis Reich '70 and Alan deWulf; (2 tie) Mark Oshin '71 and Neal Satten '71; and Dick Freedman '65 and Jeff Rohlfis. The club's next game will be the Master Point Game on December 2. Following this will be the Mens' Pairs Club Championship on December 16.

## Cagers confronted with tough rebuilding season

By Paul Baker

Whenever a basketball team loses six of its first seven men it has to hurt. This is the fate which faces Tech coach John Barry. After two excellent seasons, winning eighteen and nineteen games, Coach Barry is plagued by that nemesis of all coaches, graduation.

Concerning this season, Barry is slightly pessimistic. After enjoying tremendous height and experience for two years, he is forced to start from scratch with smaller, largely inexperienced men.

Six-foot five Dave Jansson '68 is Barry's ace in the hole. One of three returning lettermen, Jansson has totaled 868 points during his two varsity campaigns, and will probably break the MIT all-time scoring record.

Bash at center

Alex Bash '68 is likely to be the Tech center. Another returning letterman, Bash has seen considerable action but was not a starter last season.

Lacking other experienced tall men, Coach Barry may go with three guards. Bruce Wheeler '70 and Steve Chamberlain '70, two outstanding guards on last year's freshman squad and Steve DeRodeff '68 are three outstanding prospects. Coach Barry said that he is impressed by the play of Bob Vegeler '70, Dan Santini '67 (a fifth year student who was red-shirted one year to remain eligible), and a senior transfer student Lee Kammerdiner.

Barry is concerned by his lack of board strength. Neither Bash nor Jansson are heavy, and they will have some difficulty with bigger men. To combat this, Coach Barry plans to use a press and a tight man-to-man defense. The team has a lot of speed

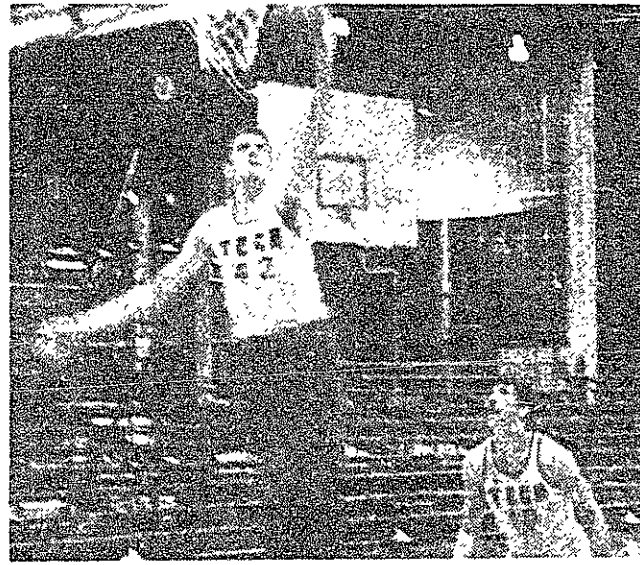


Photo by George Flynn

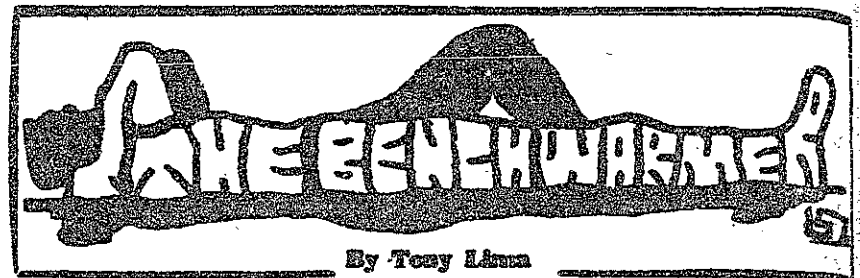
Captain Dave Jansson '68 hooks a shot in practice, as Steve DeRodeff '68 comes in for the rebound. The engineers open their season on December 2 at Wesleyan.

and may be able to compensate for the lack of strength.

Tougher schedule planned

This year's schedule may be more difficult than last season's. Catholic University (Washington, D.C.) and Wheaton College (Illinois), new schedule additions, are both tough teams. In addition, the team will participate in the Union Tournament including Hope, Lehigh, and Union Colleges.

With a few games experience Coach Barry thinks that he may be able to muster a fairly good team.



By Tony Lima

Some questions have arisen recently about the allocation of time in the Athletic Department's facilities. Specifically, it has been common practice in the past to allow IM basketball teams to reserve full courts in the Armory for practice.

On the face of it this would appear to be relatively harmless. But when one considers the fact that there are 72 teams entered this year, it becomes absurd. There are full courts in the Armory, with one more in the Cage. However, the latter is virtually unusable due to the start of varsity practice.

Time analysis

Considering the possibility of class conflicts and dinner schedules, there are roughly 38 practice hours available per week, or 152 court-hours. This is slightly over two hours per team per week. But, it is an acknowledged fact that many teams practice three or four days a week. This means, simply, that some living groups will suffer.

What can be done about this? The obvious answer is to expand the athletic facilities as soon as possible. However, as was pointed out in this column earlier this year (September 29), this will not be possible for another five to ten years. And, no major renovations of the basketball facilities in terms of expansion are planned for the near future.

Solution proposed

A growing sport such as intramural basketball must, through whatever means available, find room to accommodate the increasing numbers of participants. There is one solution that has not been tried yet which merits consideration. If teams were allowed to only reserve half courts, the effective time would be doubled, still leaving ample room for practice. The only purpose a full court can serve is giving a team the chance to run to get in shape. A substitute for this could be five laps around the floor after each practice.

Problem growing

If something is not done this year, the problem will merely continue to grow. The above plan, or one which does the same job, should be implemented as soon as possible to allow for future expansion of this sport.

## Fairfield runs over ruggers, 6-3

Despite a fine team effort, several individual lapses led to a 6-3 defeat for the ruggers at Fairfield Saturday. The Techmen were faced with a few more problems than the play due to the peculiar nature of the field. A hollow ran diagonally from one corner of the 100-yard square area to the other. The nature of the weather for the past few days made playing in this gully highly undesirable, with a resulting drop in the quality of the rugby played therein.

Yuris Apse scored Tech's lone try. After Tom Baxter took the ball out of a set scrum on the five and was tackled, he subsequently dropped the ball into the end zone, where Apse fell on it for the score. Tom Fortman

played his usual fine game for the engineers, and John Yarwood scored both goals for Fairfield.

The ruggers may compete this year in the seven-a-sides tournament in New York over Thanks-

giving vacation. However, the possibility appears remote, as lack of time and money are intervening factors. Therefore, Saturday's game marked the end of the fall season for the squad.

## Season record 3-0

## Riflemen top Boston State; Stellingner takes top honors

The Tech riflemen took an easy win over Boston State last Friday night in a match fired at the Techmen's home range. Tom Stellingner '70 took top honors for MIT with a 265. He was followed closely by Dick Evans '70 with 263 and Dennis Artman '68 with a

261. Filling out the engineer high five were Karl Lamson '69 with a 252 and Scott Holden '70 with a 243 for a total of 1284.

McHugh of Boston State lead their team with a 254, but the rest of the team faltered and their aggregate score was only 1058. This is Boston State's first year in the Greater Boston Collegiate Rifle League. Thus the small size of their team (only six men as compared to ten allowed to fire in competition) explains their problem.

Saturday's match against Boston College was cancelled because of scheduling difficulties. Coming up for the riflemen are home matches with Wentworth on Friday, December 1, and Northeastern on Saturday, December 2.

## Q Club releases membership list

The final membership list in Q Club, the sophomore honorary, has been released. Selection to the club is based on athletics and activities, with the stated goal of promoting class spirit. Officers of the club are: Ben Wilson, president; Bob Vegeler, vice-president; Wayne Wenger, secretary-treasurer; and Walt Price, member-at-large.

Other members include:

Fred Andree, Joe Baron, Joe Bisaccio, John Gerth, Joel Hemmelstein, Mike Hurst, George Katsiareas, Larry Kelly, Bruce Lautenschlager, Bob McKinley, Steve Milligan, John Owens, Chris Thurner, John Vliet, Manny Weiss, Bruce Wheeler, Dick Wiloughby, Steve Young, Mike Young, Jim Bronfenbrenner, Dick Evans, Bob Korschach, Mike Gustin, Paul McCreary, and Warner Harrison.

Second-class postage paid at Boston, Massachusetts. The Tech is published every Tuesday and Friday during the college year, except during college vacations. By The Tech, Room W20-433, MIT Student Center, 84 Massachusetts Avenue, Cambridge, Massachusetts 02139. Telephone: Area Code 617 876-5555, and 864-6900 extension 2731. United States mail subscription rates: \$4.25 for one year, \$8.00 for two years.