

Financed by AEC

MIT buys Middleton land for 400-mev accelerator

The purchase of land in Middleton from the Essex County Commissioners by MIT for the construction of the 400,000,000 electron volt linear accelerator is expected to be completed on or about December 2. Announcement of the transaction was made by Congressman William H. Bates of Salem.

According to Bates, the Atomic Energy Commission, which is financing most of the construction, expects to choose the architect-engineer for the project within the month. Hopefully, funds will be allocated by the Bureau of the Budget immediately so that MIT can begin letting contracts for the components of the accelerator.

Progress good
Congressman Bates, senior

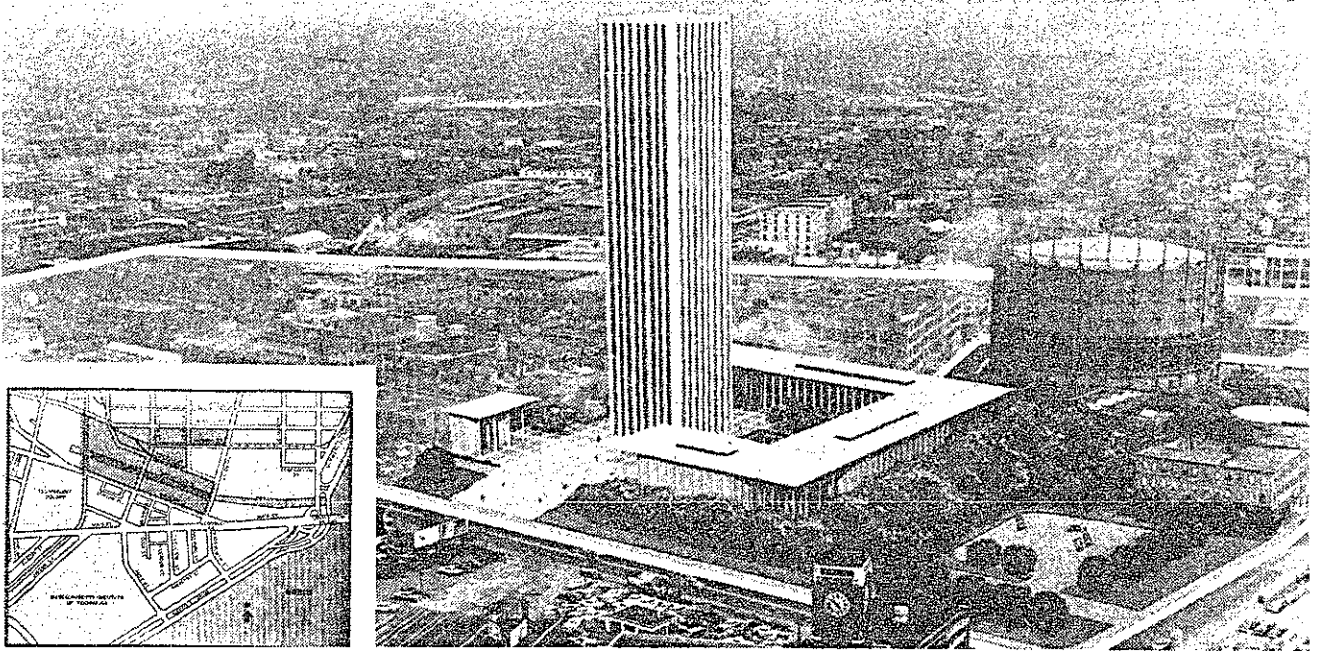
member of the Joint Committee on Atomic Energy has played a
(Please turn to Page 3)

Petition to drop course needed after Dec. 16

Undergraduates!! December 16 is the deadline for dropping courses simply by filing an approved Registration Correction Card. After that date a petition to the Committee on Academic Performance is required.

According to the Guide for Undergraduate Faculty Counselors, "The Committee will allow such late cancellations only in the case of extenuating circumstances. The fact that a student is failing is not considered a valid reason for a late cancellation."

Building underway at NASA site



An artist's conception of the NASA space center to be built in Kendall Square is shown inserted in the actual surroundings.

By Steve Carhart

Project Apollo and the US moon shot are old hat for the scientists who will man NASA's new Electronics Research Center, which is currently being built in the Kendall Square area of Cambridge just north of East Campus.

Until now, most electronic components which have been used in space vehicles have been upgraded varieties of systems originally intended to remain earth-bound. Despite the essential success of America's space program, the fact remains that our electronics technology is only barely adequate for the Apollo mission; electronic components have consistently been the greatest source of failure in our space effort. The job of the ERC, then, will be to provide vastly advanced communications and guidance systems to cope with the demands of interplanetary travel, which far exceed those met on the way to the moon.

Five major areas of research will be tackled by the ERC: systems research, electronics component research, guidance and control research, instrumentation

and data processing, and electromagnetic research. The first stage of construction, for which the foundations are currently being laid, includes a twenty-six story laboratory, a cafeteria-auditorium, and a three-story microwave laboratory. This first section of the center will cost \$15 million. An additional \$10 million will be spent during fiscal 1967 for the construction of the space guidance-space optical and electronic components laboratories. Stage three will include a second twenty-six story tower and three more laboratories. The center should be completed by 1969 and cost over \$60 million.

This shining new addition to the Cambridge area has not come without some difficulties, however. Congress balked when the center first appeared in the federal budget in fiscal 1964. Even after the Cambridge site had been chosen (largely because of MIT, Harvard, and the local electronics industry), the appropriation secured, and the aid of the US Urban Renewal Administration gained, a suit by local businessmen against the center had to be defeated in the Massachusetts Supreme Court. To ease the problems caused them by the center, displaced businesses are receiving removal expenses from the government.

(Please turn to Page 3)

Rutstein lectures on interfaces between medicine and technology

By John Foran

Dr. David Rutstein listed four interfaces that exist between a school of medicine and a school of technology at the second in his series of lectures in room 10-250 Tuesday afternoon. In that lecture, 'The Tangled Web of Medical Care,' and a lecture given yesterday, 'The Impact of Contemporary Technology and Automation,' he proceeded to describe these interfaces.

These lectures were the second and third in a series of four being delivered by Dr. Rutstein, who is Ridley Watts Professor of Preventive Medicine and Head of the Preventative Medicine Department at the Harvard Medical School. The fourth, 'A Plan for the Future,' will be presented Tuesday at 4:30 pm in 10-250.

The four interfaces Dr. Rutstein found are as follows: (1) management of complex systems; (2) the equipment related to treatment of medical patients; (3) measuring and counting machines; and (4) the method by which technological subjects are to be interwoven into a medical

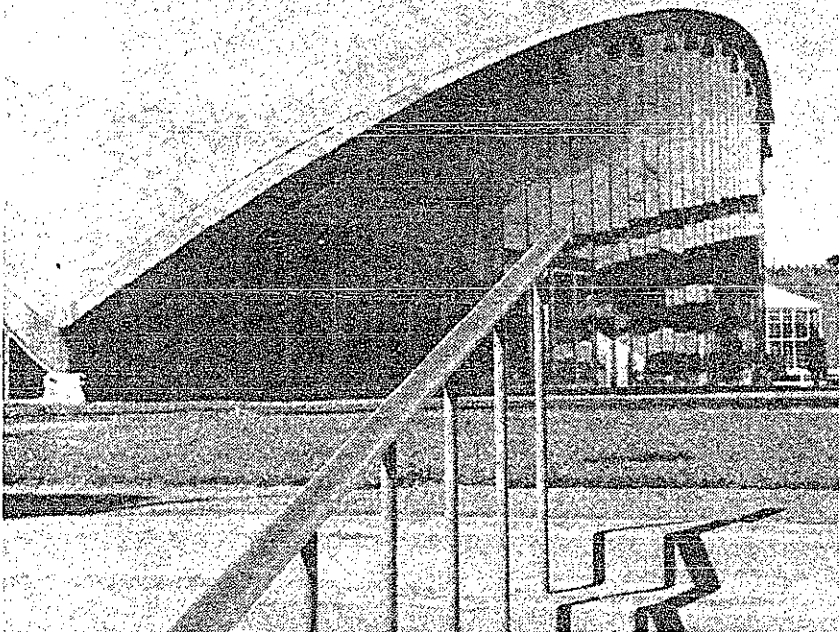
education. He considers the fourth interface to be of much greater importance than the other three.

Dr. Rutstein expressed concern for an inadequacy in medical education — that it produces qualified researchers rather than doctors — and the resulting lack of qualified doctors.

He noted that the doctor is in availability predominantly a "suburban phenomenon." The nationwide doctor-patient ratio, he noted, gives only a partial truth. The 1:750 ratio has remained unchanged for decades and ignores availability of physicians to certain economic groups, geographical distribution, amount of specialization, activity in the actual 'doctoring business,' and especially the quality of both the doctors and the efficiency of the systems in which they work.

He also discussed the relatively new field of biomedical engineering and the application of mechanization and automation to medicine. The future of this area dictates the importance of the fourth interface.

The Tech



Vol. 86, No. 46 Cambridge, Mass., Friday, Nov. 18, 1966 5c

Vice President Spotlight

Secretary of the Institute



Vincent A. Fulmer, Vice President and Secretary of the Institute.

By John Corwin

(The following is the fourth of a series of six articles based on interviews with each of the Vice Presidents of MIT.)

Vincent A. Fulmer, Vice President and Secretary of the Institute, is responsible to the President and to the Chairman of the Corporation for a broad range of administrative services to the Corporation — the Institute's governing body. He also carries executive responsibility for the MIT development program and has general oversight of Institute's relationships with industry.

In his service to the corporation, Mr. Fulmer works closely with the Officers of the Corporation — James R. Killian, Jr., Chairman; Howard W. Johnson,

President; Joseph J. Snyder, Vice President and Treasurer; and John J. Wilson, Secretary. He supports these Officers in planning and organizing the regular meetings of the Corporation and some thirty Standing and Visiting Committees, through which the Corporation conducts its official work.

Development Program

Mr. Fulmer is Executive Officer of the Development Council, an administrative group concerned with financial planning for the Institute beyond the operating budget. In this capacity he aids the President in formulating major financial requirements of the Institute, which the President and Chairman in turn present periodically to the 114-member Corporation Development Committee. The ultimate responsibility for securing major funds resides in the Corporation, which in turn authorizes the President and the officers of MIT to seek funds for Institute objectives. As a private institution, MIT relies heavily upon private gifts, grants and bequests for both operating and capital purposes.

Last year, for example, just over \$40,000,000 in private contributions for all purposes were made to MIT. A group of officers reporting to Mr. Fulmer assist the faculty and the senior officers of MIT to maintain extensive communication with key alumni and friends, private foundations, and industrial companies. These officers are designated as Insti-

tute Secretaries in their respective areas of specialization; overall support for the development program is provided by the Development Office. The entire development staff works closely with the Alumni Association, which conducts the annual, broad solicitation of gifts by alumni through the Alumni Fund.

The Institute typically stands among the top ten universities in the country in total annual gifts received. Last year's record total of \$40,000,000 placed MIT first in the nation.

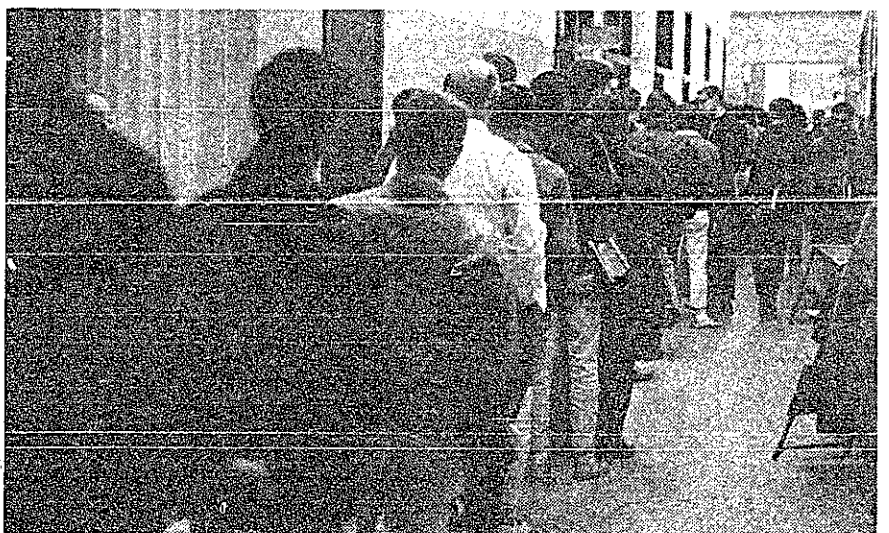
Industrial Programs

The directors of the Industrial Liaison Office and the MIT Associates Office report to Mr. Fulmer. Both programs are closed memberships of companies which make annual unrestricted grants to the Institute. In return, MIT keeps these companies informed about new developments in teaching and research at the Institute. Both programs are organized around voluntary faculty participation and involve a wide range of liaison services, e.g., technical publications, private symposia, and campus visitation.

The Industrial Liaison Program has over 100 participants, including General Motors, Radio Corporation of America, and International Business Machines. The newer Associates Program has some 25 members at present, including the Globe Newspaper. Some 35 American universities

(Please turn to Page 14)

Marat/Sade tickets gone!



The line grew as Tech's numerous culture vultures swarmed to get tickets Wednesday morning to 'The Persecution and Assassination of Jean-Paul Marat, as performed by the Inmates of the Asylum of Charenton under the direction of The Marquis De Sade.' The play, written by Peter Weiss, will be presented Monday in Kresge Auditorium.

Cordover to talk to local students about laser work

Hundreds of high school students will get an insider's view of the laser, its operating principles and its uses, present and future, at a lecture to be given Friday and Saturday in the Compton Lecture Hall.

The laser is a device that emits a slender beam of highly coherent light capable of punching holes in diamonds, performing microscopic surgery on a human retina, or focusing a two-mile circle of light on the moon's surface 250,000 miles away.

The lecture is one of a series on Topics in Technology sponsored by the Undergraduate Association to stimulate interest of high school students in new scientific developments and careers in science or engineering.

The speaker, Ronald H. Cordover of the Department of Physics and Electrical Engineering, will discuss the fundamental idea and techniques that make laser operation possible, its present uses in industry, space, medicing, and defense, and its possible uses in the future, based on current research. Several laser demonstrations with a continuous gas laser will follow the lecture.

Mr. Cordover is engaged in laser research in the Optical Maser group of the Physics Department.

Previous Topics in Technology lectures have dealt with Computer-Aided Design and Biomedical Engineering.



Spanish seminars in Puerto Rico

Study the history, language, literature, art and customs of Puerto Rico and the Caribbean each morning. Then spend the afternoons frolicking in the sun or splashing in the pool and surf.

That's what you'll do at any of three unique, college-level courses in Puerto Rico sponsored by Trans Caribbean Airways.

The classes will be taught by Prof. Luis Manuel Diaz Soler, dean of humanities at the famed University of Puerto Rico, assisted by leading American and Puerto Rican educators.

Included in the price is round-trip transportation to Puerto Rico on a Trans Caribbean "Flying Island" fan jet, a stay at the luxurious new Racquet Club Hotel, special lectures and parties, transportation to and from the airport, free flight bag, and many other extras.

Plan now to attend one of these seminars. It will be the high spot of your vacation.

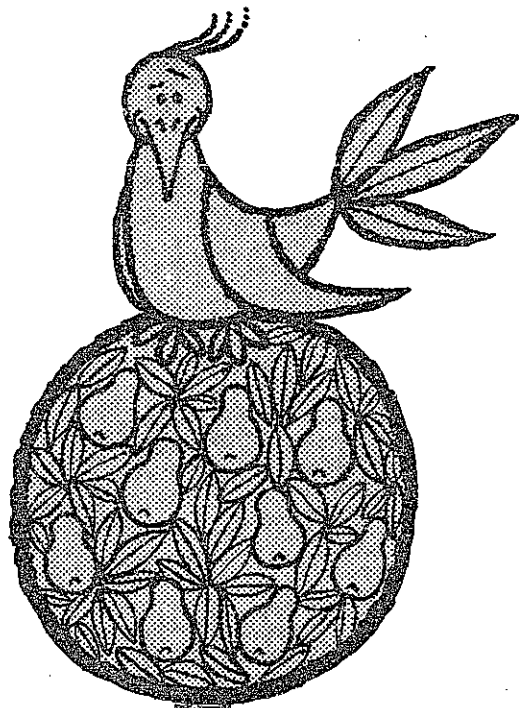
Special Five-Day Seminar, January 27-February 1. Only \$199 complete.

10-Day Seminars, at Special Low Summer Rates, scheduled for June 16-25 and August 18-27. Write for low prices and details.

Spanish Seminar Director Key # 14
Trans Caribbean Airways
714 Fifth Ave., New York, N.Y. 10019
Please send me complete information on a Trans Caribbean Spanish Seminar in Puerto Rico. I am interested in the
 January June August Seminar.

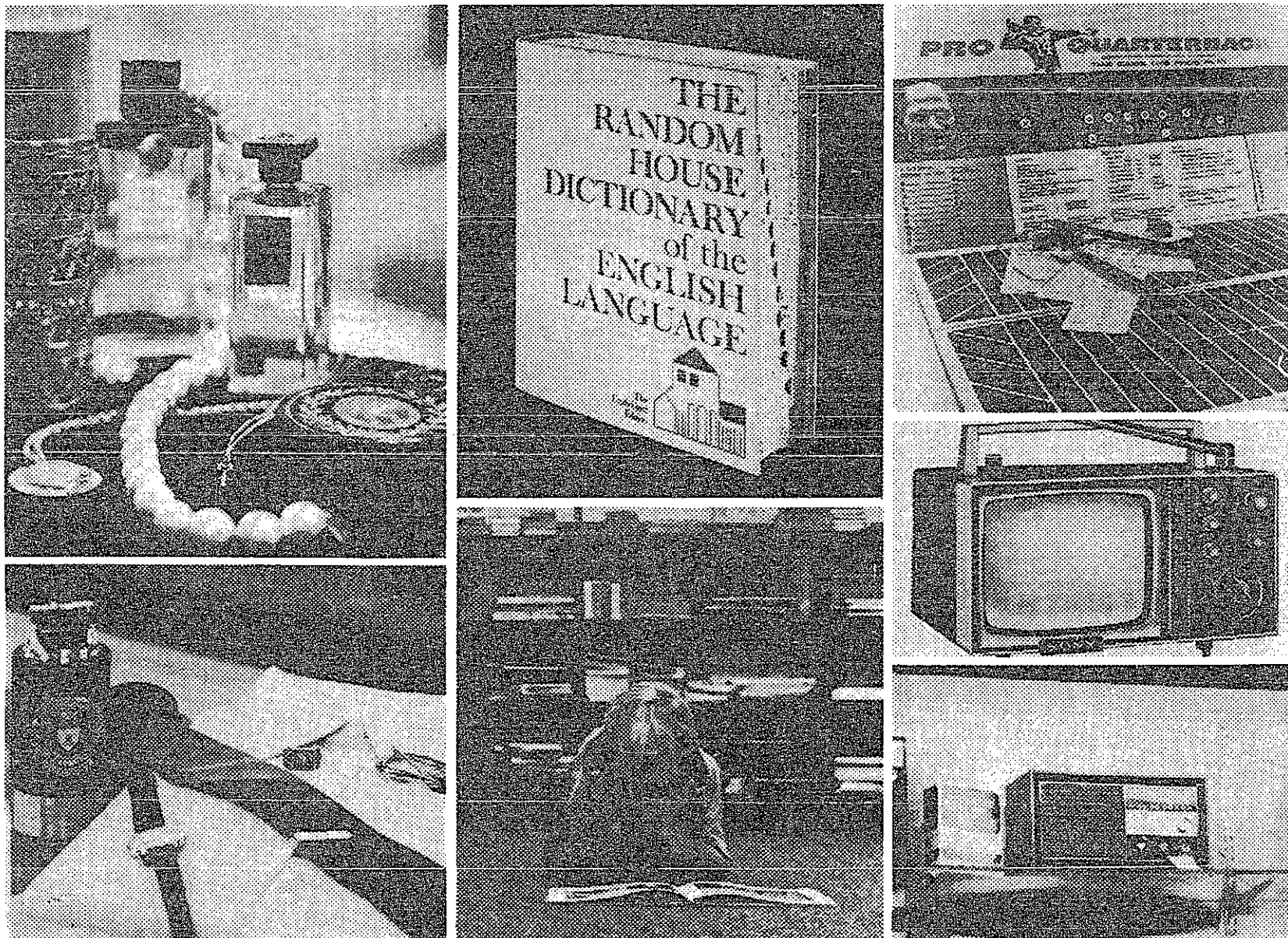
Name _____
Address _____
City _____
State _____ Zip _____

If you can't come along on the Spanish Seminar, make it another time. We have many other exciting tours and low-cost flights at convenient departure times all year long. For full details call your "Instant Vacation Specialist" (travel agent) or Trans Caribbean at LT 1-4900.

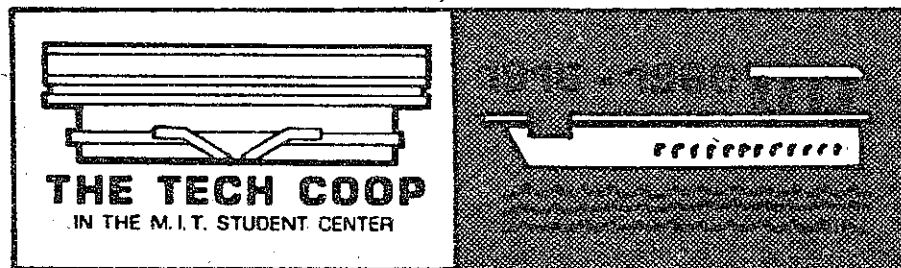
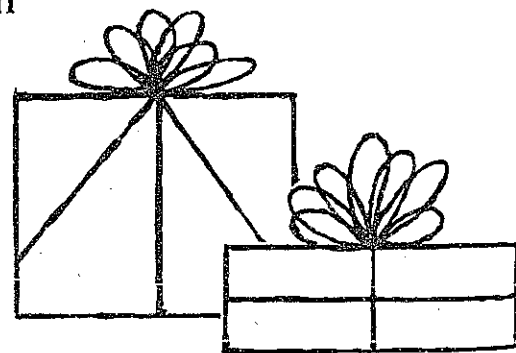


EVERYTHING BUT THE PARTRIDGE

AT THE COOP THIS CHRISTMAS



If your Christmas gift list does not include a partridge in a pear tree, you've an excellent chance of filling it completely at the bigger-and-better-than-ever Coop this year. Each of the departments at the Coop is specially stocked with Christmas gift merchandise that's sure to please. From pipes to perfume, from toys to television sets, the Coop has more of everything this Christmas. Drop in to the Coop soon and see what we mean. You'll find everything you're looking for . . . except the partridge.



OUR 50th ANNIVERSARY YEAR

Christmas Hours: Now thru Dec. 23 — 8:50 a.m. to 6:00 p.m. • Store Hours: Monday thru Saturday, 8:50 a.m. - 5:30 p.m.

Cambridge site chosen for new NASA center

(Continued from Page 1)
Although the new center is not directly connected with MIT's new center or the Instrumentation Laboratory, the exchange of space due to the proximity of these three important installations would be mutually beneficial. Furthermore, MIT community certainly take advantage of seminars the ERC will offer, undoubtedly many Tech students will find summer work at new center.

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 \$89.00 over regular airfare (\$228.40 plus tax)

Call
Parker Travel Bureau
(Opp. B.U.) 566-4087
Reservations are limited so reserve your seat now. Min. stay 10 days.

Boston Council meets

Favors extension of sales tax

The Boston Council voted Monday at its third meeting held at MIT in favor of recommending that the Massachusetts sales tax on books be extended to all educational materials.

Currently, students' purchases of required textbooks are tax-free. However, the purchaser must complete a form indicating his name, school, and the name and author of the book.

This decision of the Boston Council, which is an assembly of representatives from most colleges in the Boston area, was reached after considerable debate. Since the financial burden to the

student is practically insignificant, and since the revenue from the tax is allocated for educational purposes, it was decided to support the extension of the tax.

Delegates from nine schools in the Boston area attended the meeting: Boston College, Emmanuel, Harvard, Lesley, MIT, Newton College of the Sacred Heart, Northeastern, Radcliffe, and Wheelock.

MIT's representatives were UAP Frank March '67 and Bob Horvitz '68.

In addition to the sales tax problem, a number of other proposals were discussed. An inter-

collegiate calendar of events will be regularly prepared and distributed by Wheelock College. This will allow students to know what events are occurring on other campuses.

Suggestions were made as to the structure of the Boston Council itself. There will be a Chairman, a Secretary, and a three man rotating executive committee. Currently the Acting Chairman is Frank March '67 and the Acting Secretary is Bob Horvitz '68, both from MIT. However, it was agreed that no two of the five elected officers should be from the same school. Elections for these officers will be held next month.

Two voting delegates will represent each school. All member colleges will pay a \$5 fee to help pay for refreshments and mailings. Meetings will be held monthly on Sunday evenings in the InsComm Meeting Room here at MIT. The Executive Committee will meet one additional time each month.

\$5-million accelerator expected to open in 1969

(Continued from Page 1)
major role in authorizing and funding of the AEC project and has also helped bring about the selection of the Middleton site

by MIT, said that he was pleased with a progress report he has just received from Dr. Peter T. Demos, Director of the Laboratory for Nuclear Science and Professor of Physics.

Theta Delta Chi hosts conference of IFC Council

The Alumni Council of the Interfraternity Conference held a special meeting at Theta Delta Chi November 9. This group, made up of the presidents of each of the house corporations of the fraternities as well as the Executive Committee of the IFC, met both to conduct business and to acquaint itself with the new living arrangements of Theta Delta Chi, which moved into Dean Fassett's house this year.

After the business meeting, the members of the group dined at the house, where the featured speaker was President Howard Johnson. Johnson, besides speaking briefly on the fraternity system at MIT, also addressed himself to the topic of MIT and its relations with Cambridge, saying that he felt residents along the Inner Belt route had a right to remain in Cambridge, and that MIT might be obligated to help them in their move to some other location in the city.

Justice in armed forces topic of forum program

The Harvard Law School Forum will present a program today entitled 'Is There Justice in the Armed Forces?' The program will begin at 8:30 this evening in Lowell Lecture Hall.

The panel discussion, to be moderated by Colonel Robert H. Pell, will include Rear Admiral Wilfred Hearn, Brigadier General Kenneth Hodson, and Mr. Warren Farr.

Admiral Hearn is the Judge Advocate General of the Navy, and is thus head of the Navy's judicial machinery. Brigadier General Hodson is Assistant Judge Advocate General of the Army, and co-editor of the American Criminal Law Quarterly. Mr. Farr is a member of the firm of Ropes, Gray, and helped prepare cases at the Nuremberg war crimes trials.



Sports hero loses girl to mild-mannered math major.



DEAR REB:

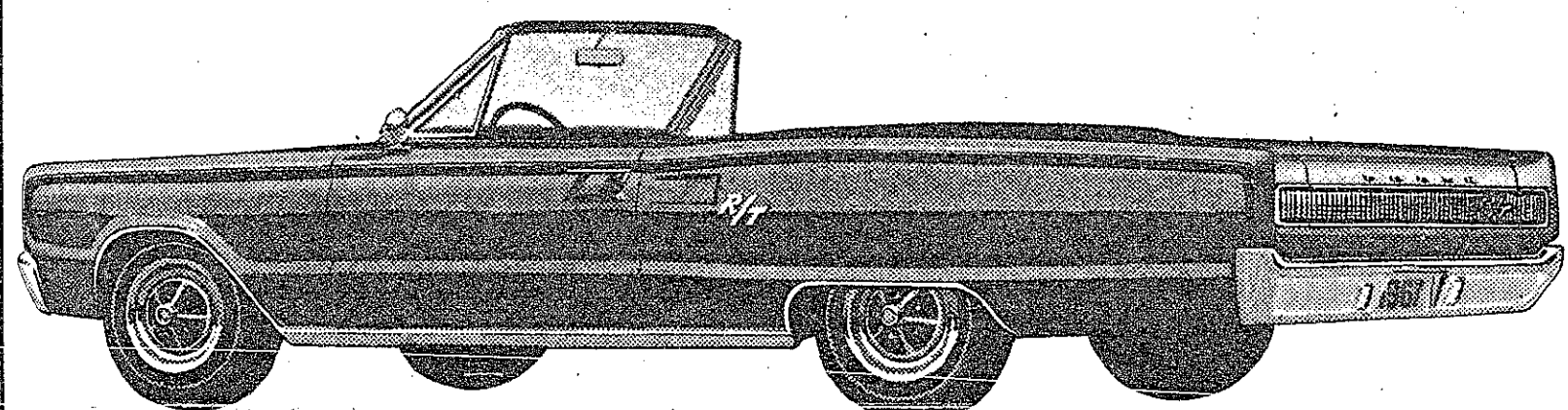
I'm a big football star, and I've found a girl who suits me to a T. But I've been blocked out of the play by a math major. He knows math from $A = \pi R^2$ to $E = MC^2$. Now she says he's found the formula for success with her. All he has to do is mutter "Coronet R/T," and I get thrown for a loss. Believe me, this is no equilateral triangle that I'm in. Outside of telling me to bench myself, have you any advice?

FALLEN STAR

DEAR FALLEN STAR:

Now's the time to plunge. Coronet R/T isn't his exclusive formula. Your nearby Dodge Dealer has it, too. And it comes almost as easily as the cube root of 27. Then how can the girl of your dreams resist two superstars . . . you and your Coronet R/T? From there on out, your math major will be the victim of diminishing returns. Huddle with your Dodge Dealer now, and get your signals straight.

Sincerely, Reb



And why not? Look what you'll have going for you in your Dodge Coronet R/T, convertible or two-door hardtop. All standard, too. 440-cubic-inch Magnum V8 engine. Dual exhausts. Heavy-duty brakes and suspension. High-performance Red Streak tires. And exclusive R/T grille and hood scoop design, full length paint stripes, and nameplates, front, rear and sides. So get with your Dodge Dealer, and your problem will solve itself.



DODGE REBELLION OPERATION '67

If you ever write a book this good... send it to us

THE PAINTED BIRD
"memorable... searing... vivid..."
—New York Times
"stunning... a brilliant maverick..."
—(London) Sunday Times
"fascinating... astonishing..."
—(France) L'Humanité
"extraordinary... literally staggering... one of the most powerful books I have ever read..."
—Richard Kluger, Book Week

NOW AT YOUR BOOKSTORE 95¢
POCKET BOOKS
a division of Simon & Schuster, Inc.
630 Fifth Avenue, N.Y., N.Y. 10020

Encounter

One of the brightest and most promising innovations on campus this fall is the Thursday noon 'Encounter' sessions held weekly in the Student Center.

The success of this program which enables undergraduates to meet and talk seriously with many of the most interesting members of MIT's faculty and staff is in some ways surprising. When we suggested editorially last spring that there was a real need for a program to introduce students to some of the Institute's 'grand old men', we received only pessimistic comment on the failure of similar programs in the past.

It is much to the credit of the Student Center Committee and Dave Peterson '68, Encounter Director, that the program was initiated anyway. The imaginative selection of attractive speakers coupled with even more imaginative and intensive promotion has resulted in an extent of participation which belies the typical undergraduate's apathetic reputation.

We can only hope that the informal, lunch-hour seminars will continue to thrive. There is a tremendous amount of knowledge and wisdom in our faculty, but much of it never shows through the classroom formality. The entire Encounter approach seems like a wonderful way to distribute a little to the student body.

In Encounter's case some hard work is returning dividends for a lot of people, and helping to make a student center out of the Stratton Building.

THE TECH

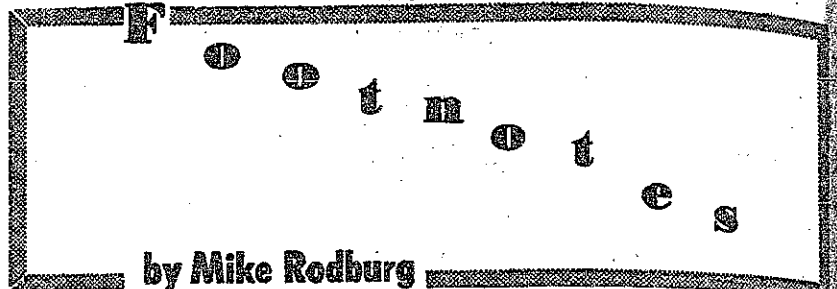
Vol. LXXXVI, No. 46 Nov. 18, 1966

BOARD OF DIRECTORS

Chairman	.....	Dave Kress	'67
Editor	.....	Charles Kolb	'67
Managing Editors	.....	Robert Horvitz	'68
		Mark McNamee	'68
Business Manager	.....	Guille Cox	'68
News Editor	.....	Gerry Banner	'68
Features Editor	.....	Mike Rodburg	'68
Sports Editor	.....	Tom Thomas	'69
Photography Editor	.....	Low Golovin	'67
Entertainment Editor	.....	Andy Seidenfeld	'68
Business Representative	.....	Nick Covatta	'68

Editorial Associate	.....	Jeff Stokes	'68
Associate News Editors	.....	Mark Bolotin	'68
		John Corwin	'68
Associate Sports Editor	.....	Larry White	'69
		Tony Lima	'69
Intramural Sports Editor	.....	Herb Finger	'68
Associate Photography Editor	.....	Bill Ingram	'68
		Jeff Reynolds	'69
Copy Editor	.....	Brian Harvey	'69
Controller	.....	Dave Dewitte	'69
Treasurer	.....	Mike Ginsberg	'69
Acc'ts Receivable	.....	Dan Green	'68
Nat'l Adv. Mgr.	.....	Jack Swaim	'68
Bookkeeper	.....	Ed Waibel	'69

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.



by Mike Rodburg

115. Are you tired of begging for rides, or hitching, to Wellesley each weekend, or perhaps less frequently for the reasons mentioned (hitching, begging)? Burton House Committee is investigating the possibility of running a chartered bus service from Tech to Wellesley. The problem is to generate enough concern to establish a wide enough base to run the enterprise on a non-profit, but non-loss, basis. Those interested in participating, or merely in want of more information should call Charlie Meyer, x-3295 or dl-9564.

116. We would like to note, on behalf of the editor, the successful prediction in the Pre-Field Day issue of The Tech. Despite our "kiss of death," '69 did maintain what is now a 6 year trend by defeating an even numbered class, also, just for kicks, it rained the night before — we had hoped for a deluge during the proceedings.

117. With normal blustery fall weather and the fast approach of winter, the I. M. Pei perennial Wind Tunnel, also

known as the Green building, has set up shop. In a Berlin-like move, we can expect the wall to go up very shortly.

118. Apparently even computers have become aware of the Nietzsche-inspired "God is dead" controversy. But, computers, unlike man, are not about to take so firm a stand on the issue, not yet. Anyway one student was at a console and became exasperated enough at his own errors to type out "godammit." The computer replied, matter-of-factly: "God not found."

119. MIT's latest academic committee has an interesting acronym; it is also an interesting committee. CRISP stands for Committee on Research in Space Planning and is headed up by Provost Dr. Jerome Weisner. The purpose of the new group is to study major short term problems and long term solutions for space.

120. Edwin E. Aldrin, Sr. (the astronaut's father) is a Tech grad ('17), too. He received his Master here in Course XVI and his Doctorate in XVII.

Letters to The Tech

Pass-fail

To the Editor:

The key argument by the proponents of pass-fail systems of grading, as described in your editorial of November fourth, seems to be that such systems "allow students to pursue their academic interests fully by removing the necessity to study solely for a grade." Isn't this overstating the case? While no grade can be a complete measure of one's mastery of a subject, is it not in general true that if one really masters the subjects in his field, the grades will take care of themselves? If so, there is not now a "necessity" to study "solely" for grades.

Would not pass-fail systems still be controlling for students at the pass-fail borderline in a number of subjects, while at the same time not warning them as clearly that they were nearing that borderline? For the great majority of students, are there not many other factors, usually more important than grades, which do not "allow students to pursue their academic interests fully"? Such other factors might include the quality of teaching, student traditions, opportunity for papers and project work, more personal feedback from the teacher on the student's own work, improved facilities for independent study, student environment, subject content per unit time allotted, and the chance to work at one's own pace by taking from three to five years for the first degree.

To be sure, your suggestion of pass-fail grades in extra subjects does not depend on the arguments quoted above. What are your thoughts about the present system in regard to Advanced Standing Examinations, in which grades

are given but not counted in the cumulative rating?

Prof. Frank A. McClintock '42

(Ed. note: First let us admit that the 'other factors' which Prof. McClintock lists above are all extremely important in determining a student's academic success or failure. We have campaigned editorially for several of them.

...In fact we have to admit that if teaching was universally excellent, courses perfectly developed and professors in full and constant person-to-person contact with their students, grades would be a fair and objective measure of what a student has learned.

...However, given our real-world size and type faculty, students rightly feel that the present grading system is sometimes arbitrary and unfair. To correct this unfairness they are likely to agitate for a system-like pass-fail where subtle differences in knowledge can't be so hugely reflected in their final grades. In other words, since many feel that the average professor can't accurately determine who knows what with any real precision, he should stop trying to ascertain anything but whether or not his students know enough to take the next course.

Obviously a full pass-fail system would allow students to just skim through the required courses which don't particularly interest them. To some extent this is also what happens with the Advanced Standing Examinations. As long as there are core courses which are 'boring' either in level or content to those who must pass them, the Advanced Standing Exams provide valuable mobility within

the academic framework. In essence they are a one shot pass-fail course without the benefit of a professor. Which raises the obvious question of why bother to assign a grade to the exams? A pass-fail Advanced Standing Exam makes sense even when a pass-fail course on the same subject doesn't.)

Against the Poor

To the Editor:

MIT Students for a Democratic Society wishes to reply to the Tech editorial defending the administration's position on the Inner Belt. The overall flavor of the editorial is one of sympathy for those who are displaced combined with the idea that whatever the injury to these people it is naive to oppose the Brookline-Elm route. Its conclusions are supported with questionable analysis and practically no facts. It is asserted, however, that the revised Portland-Albany route takes as many homes and twice as many jobs as the Brookline-Elm route. This assertion is flatly wrong. Although neither of the two routes has been worked out in complete detail as of now, the latest figures available show that the Brookline-Elm route would displace some 1,500 families and some 2,500 jobs; the revised Portland-Albany route would displace 100-150 families and 2,500 jobs.

The Tech also claims that "most" traffic experts agree that without the Inner Belt present bad traffic conditions in Cambridge will become catastrophic. This ignores the basic fact that roads not only accommodate existing traffic, but generate new traffic as well. The most likely result of the Inner Belt is that more people will wish to cross Cambridge than before and that the super-highway will be beset

with recurrent traffic jams from the day it is open. The Mass. Department of Public Works (DPW) plans for an Inner Belt were based on data collected in 1945 about traffic conditions during the war. Not only is the traffic data obsolete, but in the opinion of one group of city planners (Urban Planning Aid) there was no serious consideration of alternatives, particularly those involving a combined road/mass transit system. Finally, the Brookline-Elm route was selected in 1962 in good part because the area was slated for demolition under "urban renewal." When these urban renewal plans were eliminated due to public pressure, the road plans were not changed.

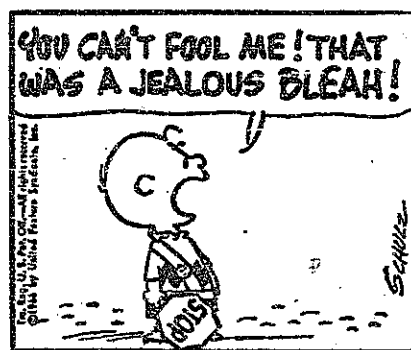
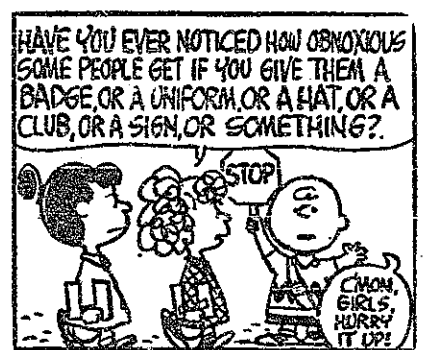
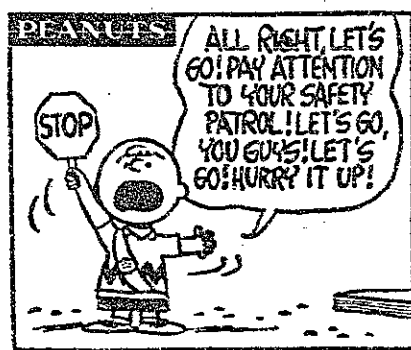
The Tech editorial repeats the administration proposals for helping to relocate a portion of those displaced if the Brookline-Elm route is selected. These proposals call for the construction of a limited number of low-cost housing units, either inside or outside Cambridge. This entirely fails to meet the needs of the elderly who will be affected (40% of those to be displaced are over 65) since many of them now pay no rent (owning their own homes) and even earn money from their property (by renting rooms to students; it is highly unlikely that any but a very few of these will be able to purchase homes elsewhere. Moreover some of the elderly operate small stores which cannot be replaced. Finally, not even the people who rent apartments will be substantially aided by the few units which might be built; most of them will have to leave Cambridge (and for the Negroes involved this means returning to Roxbury).

Is MIT really the responsible "corporate citizen" assumed in The Tech editorial? Clearly it is

not adopting a neutral stand by refusing to choose between the two routes. The administration has expended considerable effort in the last year to see that no road would come anywhere near the Institute. Not only was MIT considerable influence in Washington (as the largest university defense contractor in the country receiving \$98 million in 1965) but its tremendous power in Cambridge (as one of the city's two largest employers and taxpayers exerted to influence the decision of the DPW. A public relations campaign was also mounted involving considerable demagoguery, such as the statement by the MIT legal counsel that the railroad route (which is distinct from the Portland-Albany route) would be "built at the cost of demolishing scientific facilities that might have effectively countered the blow that 'buried' us to use Kruschew's (sic) warning phrase." Needless to say, this is pure bunk. The Portland-Albany route is not a serious threat to MIT and involves only two small sections of the instrumentation laboratories. During a recent meeting between Chairman Kurland and representatives of the Brookline-Elm neighborhood the administration did not claim that the Portland-Albany route would involve substantial losses to MIT jobs or facilities. The main reason for MIT opposition to this route is that it would hamper any plans for MIT expansion in the area. Thus the choice is not between two equally bad routes, as The Tech implies, but between a bad route and an acceptable route. In this choice, for purely selfish reasons, MIT has used its considerable influence to impose the bad route on the community. We suggest that students and staff who agree with us write the administration urging them to change the MIT position on the Inner Belt.

Phil Raup 'G,
Michael Perloff '68 for the
MIT STUDENTS FOR A
DEMOCRATIC SOCIETY

(Ed. note: The sign of a strong democracy is the ability for everyone of its citizens to speak out—even when they're badly misinformed.)



The Bulletin Board

Friday, November 18

9:00 PM. LSC Movie.

Saturday, November 19
9:00 AM. Jewish Sabbath Services. MIT Chapel.
12:00 PM. Bridge Club. Student Center. Rm. 407.
1:00 PM. Chess Club. Student Center. Rm. 491.
7:00 P.M. LSC Movie. "The Chase." Admission: 50c. Rm. 26-100.
8:30 PM. Gilbert & Sullivan Society. "The Gondollers." Admission: \$1.75. Kresge Auditorium.
9:00 PM. LSC Movie.

Sunday, November 20
9:15 AM. Roman Catholic Mass. MIT Chapel.
11:00 AM. Protestant Service. MIT Chapel.
12:15 PM. Roman Catholic Mass. MIT Chapel.
1:00 PM. Chess Club. Student Center. South Lounge.
4:45 PM. Roman Catholic Mass. MIT Chapel.
4:30 PM. I.F.C. Dinner. Student Center, Mezzanine Game Room.
7:00 PM. Lutheran Services. MIT Chapel.
8:00 PM. LSC Movie "Citizen Kane." Admission 50c. Rm. 10-250.
7:30 PM. MIT Hillel-Atid. Lecture: Dr. Morton Siegel. Student Center, Mezzanine Lounge.

SQUASH RACKETS
All Makes — Large Variety
Tennis & Squash Shop
67A Mt. Auburn St., Cambridge
(Opp. Lowell House)
TR 6-5417

2 sophs make discovery

Laser beam cracks granite

By Gerry Banner

Experimental research by two MIT sophomores with lasers may lead to a revolutionary process of excavation and tunnel digging.

Robert Gladstone '69 and Anthony Kettanel '69 directed an infrared laser beam at hard granite and marble solids and were able to produce considerable cracking. On a more extensive basis, the beam could badly damage almost any type of rock the construction engineer or tunnel digger might encounter.

Gladstone pointed out that the lasers damage the microstructure of rocks due to thermal cracking. Granite, marble, and gneiss would be softened up to permit removal by mechanical tunnel drivers, which are now limited to the use of gouging out of sandstone and similar types of soft rock. The laser beams could reduce by a factor of 10 the amount of work needed to fracture hard rock.

Such a discovery might be a



Anthony Kettanel '69, Bob Gladstone '69 and Prof. R. Brady Williamson (left to right) of Course I examine granite blocks that were fractured by infrared laser beams. The significance of these experiments may be substantial in construction applications.

major factor in digging of Project Transport's proposed 450 mile long tube between Boston and Washington. Gladstone further mentioned its possible implications in mining technology.

Kettanel is a 29-year-old con-

struction management accountant who came to MIT to get an engineering background. Their discovery was part of a project for 1.10, an introductory Civil Engineering Laboratory. The two sophomores worked with Professors R. Brady Williamson and Fred Moavenzadeh, and Frederick J. McGarry, head of the Materials Division of Course I.

This rock fracture research program is sponsored through the Division of Sponsored Research by the US Department of Commerce.

Dr. Zinn speaks at student program

A conference on "Students and Values," sponsored by the Unitarian Universalist Churches, will be held Sunday at the Second Unitarian Universalist Church, Beacon St. at Park Drive.

An address by Dr. Howard Zinn of the Boston University Government Department will begin the program at 3 p.m. Professor Zinn is the author of SNCC: The New Abolitionists, and has worked closely with members of that organization while he was Chairman of the History Department at Spelman College, Atlanta, Ga.

This speech will be followed by a panel discussion, a supper, a "high camp" silent movie, and a dance, which will close the day.

The "ACID SCENE"—
where it's happening,
and why, in American
colleges and
universities!

DELL
60c
LSD
ON CAMPUS

WARREN YOUNG and JOSEPH HIXSON

- INCLUDING
- LSD effects on creativity, study, work, maturity and sex
 - Episodes documenting the psychedelic movement on American campuses
 - The Psychedelicatessen—sources and supplies

DELL An original 60c
Dell Book

Student Summer Jobs 1967

in GERMANY
Lufthansa

Wenn Sie 18 Jahre oder älter sind und einigermassen mit Ihrem Deutsch zurechtkommen, dann senden Sie diesen Gutschein ein. Er könnte Ihnen Vergnügen und vielleicht sogar Nutzen bringen!

Lufthansa German Airlines
Dept. UX122, 410 Park Ave.
New York, N. Y. 10022

Please send me an application form and brochure about Student Summer Jobs in Germany for 1967.

NAME _____
UNIVERSITY _____
SEMESTER _____
ADDRESS _____
CITY _____
STATE _____
ZIP _____

Lufthansa

SPECIAL TO M.I.T. STUDENTS

20¢ OFF **BURGER KING'S**
"WHOPPER"
(or Fish Sandwich)

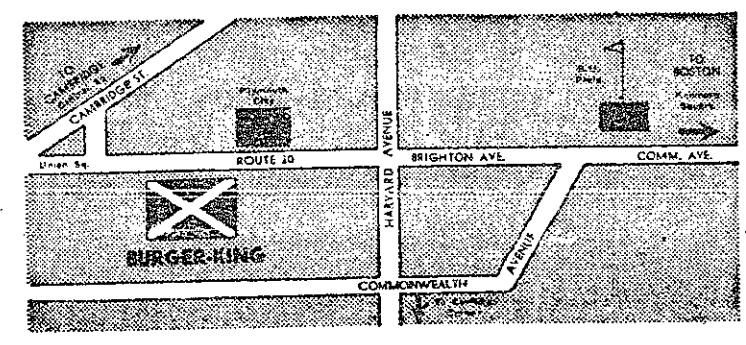
Present this coupon at Burger King window. Limited: 1 per customer. Not good after November 25

WHOPPER

ACTUAL SIZE
A king-sized portion of pure, premium quality beef, broiled, not greasy fried, with tomatoes, lettuce, pickles, onions, catsup and mayonnaise on a giant toasted bun. A meal-in-itself!
Reg. 49¢ — You Pay Only 29¢
(with coupon)

BURGER KING
HOME OF THE WHOPPER

210 BRIGHTON AVE., ALLSTON, MASS.



OPEN 11 to 11
7 DAYS A WEEK
210 BRIGHTON AVE.
ALLSTON, MASS.

Program sponsored by ACE

Administration intern comes to MIT

By Roy Benveniste

This year, MIT is a host institution for a program of internship in academic administration. The American Council on Education, thanks to a \$4.75-million grant from the Ford Foundation, is attempting to "strengthen leadership in American higher education by enlarging the number and improving the quality of prospects for positions in academic administration. Specifically, the program is intended to identify qualified individuals, select the most promising, and afford them an experience designed to develop their potential for effective performance in administrative positions directly related to academic areas."

Air Force Major

The American Council on Education, an organization in Washington, DC involved in the problems of higher education, found 40 promising administrators by a selective process. These college

professors, all educators, were sent to other colleges and universities, where they are at work in the Administration, at the Vice-Presidential or Presidential level, observing and participating in administrative policy decision-making. The program is in its second year, and one of these interns chose to come to MIT. He is Air Force Major Michael J. Mendelsohn, who is working in Vice President Malcolm Kispert's office.

Mr. Mendelsohn, who is on active duty in the Air Force, is an Associate Professor of English at the Air Force in Colorado. He spent his undergraduate years at the University of Pittsburgh, and got his doctorate in English at the U. of Colorado. He has taught for the U. of Maryland and the U. of California, and has been in the Air Force since 1951. After a 3-year tour of duty in Okinawa, he went to the Air Force Academy in 1958, where he has been ever since. Mr. Mendelsohn,

who says, quite frankly, that he chose to come to MIT because of its reputation for excellence, now lives in Watertown with his wife and two daughters.

Administration orientated

Mr. Mendelsohn explained that the ACE program is trying to create an interest by classroom people in administrative matters. This year's 40 interns had a meeting in Berkeley in September for an 8-day seminar in the problems of higher education, conducted by the Center for Research and Development in Higher Education.

Here at MIT, Mr. Mendelsohn is sitting in on meetings with VP Kispert, and with the many offices under him, such as Admissions and Institutional Studies. He is mainly observing the intricate workings of the administration, and he says that he is impressed by the depth and wealth of talent in MIT's Administration.

A year program

One stipulation of the program is that the interns return to their home institutions for at least a year after their internship. After that, they will be free to assume higher positions at other colleges if they are offered them.

30 years ago . . .

The long standing feud between Voo Doo and The Tech took on war-like proportions as Voo Doo staged a night attack on The Tech's offices.

Members of Voo Doo's staff broke into the offices by smashing a window, leaving a trail of destruction. "The minions of the self-called 'Technology Humor Magazine' smashed the transom and stole all the old copies of The Tech." They distributed the copies with abandon about the Institute.

The attack was touched off by The Tech attaching its own signature to a significant number of Voo Doo's, how exactly this was accomplished remained unclear.

Landon beats FDR

If the national political scene were more like the Institute, there would be no third term question for FDR, in fact there would have been no second term even. Of the 25 fraternities at MIT, all but one voted overwhelmingly in favor of Landon; only Sigma Alpha Mu went to Roosevelt by 17 to 2.

20 years ago . . .

The LSC movie was a real blast. There were two showings of the atomic bomb tests at Bikini.

WMIT began broadcasting for

the very first time. Its first show featured Dr. Karl T. Compton. After weeks of hectic organizing, the station began as an independent broadcaster supported by local and national advertisement. It hoped to form a network eventually with stations from Harvard and Radcliffe.

Tech Bridge

After many years' lapse, Tech Show was again to come back in its format as a musical show written and performed by members of the MIT community.

The Boston City council actually considered the suggestion that the Harvard Bridge be renamed. One city council member observed that "Tech Bridge sounds too much like a toothbrush."

10 years ago . . .

The Selective Service College Qualification Test was being given. The Tech announced the room assignments and reminded people to bring their ticket of admission. We weren't even at war then, however Hungary and the Suez were in the news.

The prize to APO's Ugliest (Please turn to Page 12)

Inside Inscomm

Student-faculty meeting held to discuss judicial problems

By Frank March, UAP

Several students and members of the faculty held a meeting on November 8 to discuss judicial policies. Two major areas of policy were the center of discussion: should Judicial Committee be a police force or a trial body or both? Should some special provisions be made to inform persons coming before JudComm of their rights and of the procedures of Judicial Committee?

Judicial Discussion

No consensus was reached concerning Judicial Committee as a trial body or police force. However, it was generally agreed that persons coming before JudComm should receive both a written and a personal explanation of their rights and of the procedures of the hearing. Some Judicial Committees regularly follow this procedure, but it is not a formal requirement; there was some sentiment that this should be formalized. The Institute Committee will discuss this at the next meeting on December 1st.

Congratulations to Junior Prom Committee for a most enjoyable and well-run weekend. A good show!

Planning Committee

A long range planning committee is being formed to look into space needs for activities. Present structural plans call for a chairman plus representatives from the Student Center Committee, the Student Committee on Environment, the Activities Coun-

cil, musical and dramatic organizations, and athletics. Several members of the administration and faculty involved with athletics, music or drama, and the planning office are also expected to participate. Any interested students, in particular those from musical or dramatic organizations, should see Paavo Pyykonen at the InsComm office.

SCEP

The Student Committee on Educational Policy will elect new members on December 4th. Interested persons should pick up application forms from the InsComm office and return them by Dec. 2. Projects which SCEP is now working on include a discussion of pass-fail systems, headed by Mark Spitzer; a discussion of lengthening reading period, headed by Enrico Ancona; and several other projects.

The Academic Council has invited several students to the November 22nd meeting . . . Mike Telson, Jeff Wiesen and I shall attend; this invitation grew out of a discussion of student involvement in Institute decision making on November 1st.

Advertisement

THE BIBLE says: Look not thou upon the wine when it is red, when it giveth his colour in the cup, when it moveth itself aright. At the last it biteth like a serpent, and stingeth like an adder. —Proverbs 23: 31, 32.

Keyed-up students unwind at Sheraton and...



save money

Save with weekend discounts! Get your free ID card from the Sheraton rep on campus. It entitles you to room discounts at nearly all Sheraton Hotels and Motor Inns. Good over Thanksgiving and Christmas holidays, summer vacation, weekends all year round.

Donald R. Sohn
Phone: 491-0050

Sheraton Hotels & Motor Inns

HEALTHY MALE COLLEGE STUDENTS

Wanted as paid participants (\$20 each) in research concerned with factors influencing onset of illness.

To qualify, students must never have had any allergies, and within the past year must have been free of any infections, colds, sore throats, etc., which required medication. To volunteer or obtain further information, call Dr. Jacobs at the B.U. Medical Center, 262-1400, extension 692, weekdays, 9-5.

Naval Research Laboratory

WASHINGTON, D.C.

An Equal Opportunity Employer

The Navy's Corporate Laboratory—NRL is engaged in research embracing practically all branches of physical and engineering science and covering the entire range from basic investigation of fundamental problems to applied and developmental research.

The Laboratory has current vacancies and a continuing need for physicists, chemists, metallurgists, mathematicians, oceanographers, and engineers (electronic, electrical, mechanical, and civil). Persons appointed receive the full benefits of the career Civil Service.

Candidates for bachelor's, master's and doctor's degrees in any of the above fields are invited to schedule interviews with the NRL representative who will be in the

December 1, 2

Those who for any reason are unable to schedule interviews may write to The Director (Code 1818), Naval Research Laboratory, Washington, D. C. 20390.

Looking Back

By Mickey Warren

5-Year Renewable Term Savings Bank Life Insurance

SAVINGS BANK

SBL

LIFE INSURANCE

\$25,000

for less than \$75 a year

\$20,000

for less than \$60 a year

\$15,000

for less than \$45 a year

\$10,000

for less than \$30 a year

\$5,000

for less than \$15 a year

These are the average annual net payments for five years, based on current dividend rates, if you buy while under age 35. Dividends are not guaranteed. We will gladly quote premium rate for your age, without obligation.



CAMBRIDGEPORT SAVINGS BANK

Right in Central Sq., Cambridge

Life Insurance Dept. 864-5271

SCEP interviews scheduled Dec. 4

The Student Committee on Educational Policy will hold interviews for prospective members Sunday, December 4. Interested parties should fill out an application form, available in the In-comm Office, and return it to that office on or before Friday, Dec. 2.

This year's chairman of SCEP is Mike Telson, '67. Barbara Desmond, '67 is secretary.

Kibitzer

By Mark Bolotin

North
 ♠ K 10 9
 ♥ A 9 8
 ♦ Q 8 7 6
 ♣ A Q 10

West
 ♠ A J 4
 ♥ K Q J 7 4
 ♦ A 9
 ♣ K 5 2

East
 ♠ Q 8 5 3 2
 ♥ 10
 ♦ J 5
 ♣ J 8 7 4 3

South
 ♠ 7 6
 ♥ 6 5 3 2
 ♦ K 10 4 3 2
 ♣ 9 6

Both vulnerable
Bidding
 North East South West
 1 NT Pass 2 ♦ 2 ♥
 3 ♦ Pass Pass Double
 Pass Pass Pass

Opening lead: ♥K
 In today's hand, North-South reached a precarious contract because North bid ambitiously under the influence of good spot cards. However, the hand was makable only because of a ten held by South.
 Although containing only fifteen high-card points, North's hand is

probably good enough to open with a no trump. South quite properly bid two diamonds, then West overcalled two hearts. With mild support for all unbid suits and with good defensive structure he might have chosen to double. North competed with three diamonds—an atrocious bid, for he has already described his hand to partner who should be able to take whatever action is necessary. West's subsequent double ended the auction.

After West's opening heart lead, declarer did not view his prospects for making the hand as being exceedingly bright. When East followed to the first heart trick, one obstacle had been overcome. While both black suit finesses were likely to be on-side by the bidding, there was still the problem of avoiding a second trump loser, especially with the threat of an uppercut.

If North-South had been missing A-J-10-5 of trump instead of A-J-9-5, there would be no play for the hand. Trump would eventually have to be led from the board; West would win with the Ace, cash two hearts, and lead another heart. Regardless of what dummy

(Please turn to Page 12)

ROTC black berets

Counterguerilla unit formed



Members of ROTC's "Black Berets" set their positions during field maneuvers. Standing is executive officer, Ray Boxman '68, while kneeling are Chris Haaland '69, Roger Chang '69, Paul Warner '69, and Steve Bridges '69.

The black berets which can be seen dotting the campus on Thursday afternoon are symbols of the ROTC counterguerilla unit recently established at MIT.

The program was initiated to provide additional training in leadership and self-confidence under adverse conditions for interested ROTC students; membership is on a voluntary basis. Weekly meetings, physical training sessions and field trips are used to implement the group's plans.

Simulated combat

Simulated combat and escape and evasion practice were the activities of the unit's first field project at Fort Devens on November 4, 5, and 6. For the first problem the team was broken down into aggressor and defending force groups which attempted to gain control of a bridge and surrounding area under battle conditions.

The second combat situation saw the team reunited to oppose

a force of trained aggressors in the Army Security Agency's simulated Viet Cong village. The problem required the unit to move through enemy territory and search and clear a native village, surrounded by aggressors. The Berets were subsequently pinned down by heavy aggressor fire and were forced to attempt escapes in small groups which would rendezvous at a pre-designated point. Thirteen of the twenty-seven participants were captured and taken to the prison compound where they were shown various prison techniques designed to extract information.

Officers

The recently-selected officers for this school year are team leader, Ray Boxman '68; executive officer, Randy Brack '68; operations officer, Jimmie McPherson '67; personnel and supply officer, Mike Raskob '69; information officer, Tom Dooley '69; squad leaders, Steve Bridges '69, Roger Chang '69, and Chris Haaland '69.

CHORUS PRO MUSICA

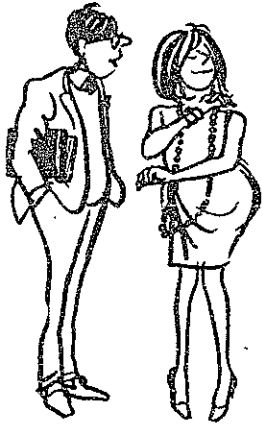
Alfred Nash Patterson
 Conductor

BRAHMS REQUIEM
BACH MAGNIFICAT

Cambridge Festival Orchestra
 8 P.M. — SUNDAY, NOV. 20

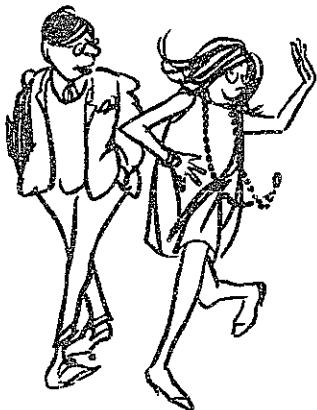
SYMPHONY HALL

Veronica Tyler, Soprano; Mary Davenport, Alto; David Dodds, Tenor; Simon Estes, Bass.
 \$2, \$3, \$4, \$5 and \$6
 Tickets at the Box Office or write the Chorus at 645 Boylston St., Boston



1. Um...uh...now that we know each other a little, I was wondering if, uh, you think I'm the type of guy you could go for?

I could go for a real swinger.



2. I have an exciting pipe collection.

I want to be where the action is.



3. I know some daring chess openings.

I want a man who's making it happen.



4. I read all about it in The New York Times.

I want to do 'in' things with 'in' people in 'in' places.



5. I spend a lot of time in the library.

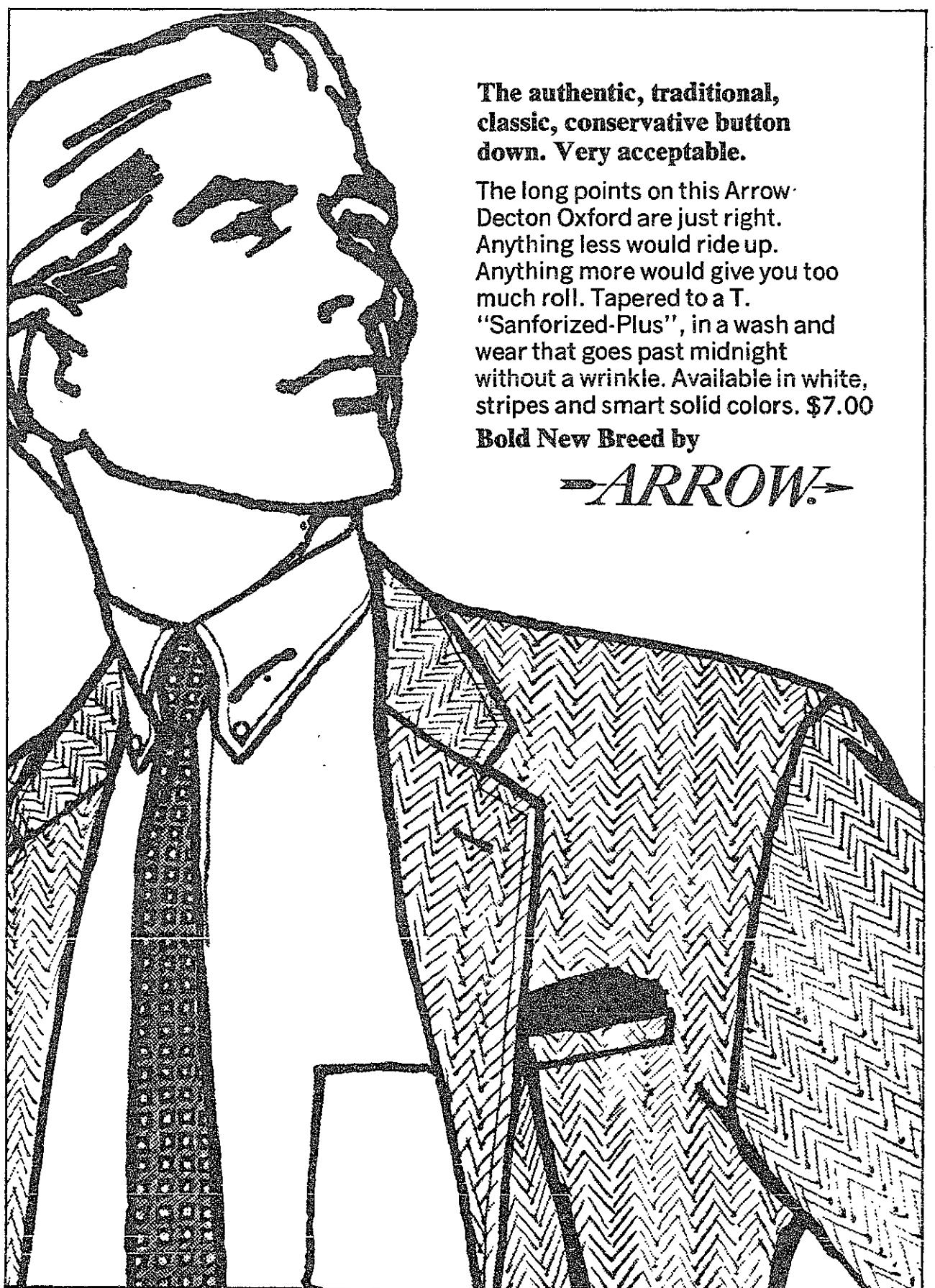
My motto is fun today and fun tomorrow.



6. Then I guess you wouldn't be interested in someone like me who has landed a good-paying job that will let his family live well and who, in addition, has taken out a substantial Living Insurance policy from Equitable that will provide handsomely for his family if, heaven forbid, anything should happen to him.

How's about showing me that pipe collection, swinger?

Relax and Divert
CAMPUS CUE
 590 Commonwealth Ave.
 (Opposite B.U. Towers)
Pocket Billiards
 "Great for a Date"



The authentic, traditional, classic, conservative button down. Very acceptable.

The long points on this Arrow Decton Oxford are just right. Anything less would ride up. Anything more would give you too much roll. Tapered to a T. "Sanforized-Plus", in a wash and wear that goes past midnight without a wrinkle. Available in white, stripes and smart solid colors. \$7.00
Bold New Breed by

→ARROW←

For information about Living Insurance, see The Man from Equitable. For career opportunities at Equitable, see your Placement Officer, or write: Patrick Scollard, Manpower Development Division.

The EQUITABLE Life Assurance Society of the United States
 Home Office: 1285 Ave. of the Americas, New York, N. Y. 10019 Equitable 1966
 An Equal Opportunity Employer. M/F

Hilarity in 6-8 time

'The Gondoliers' is another G&S hit

By John Montanus

Sometimes, after reviews appear in these pages of Gilbert and Sullivan Society productions, the unfortunate critic is assailed by members of the cast and accused of unfairness and unbalanced allotment of praise and condemnation. To such unseemly flaws, we must in humble honesty admit, alas!

But in equal justice, the Society must share the blame. When the curtain rises again tonight and Saturday on "The Gondoliers," even punctilious theatre-goers will be divided in their reactions. For example, does one credit the breath-taking first view of the stage to the well-balanced scenery, the dazzling costumes, the skill of make-up artists, or to the fresh beauty of as pulchri-



Photo by Bill Ingram

Jacqueline Meily and Roberta Eisenhart discuss the compatibility of love and marriage in the Gilbert and Sullivan Society production, "The Gondoliers," continuing tonight and Saturday in Kresge Auditorium.

tudinous an array of damsels as ever graced a Savoy stage?

This is not the only dilemma. Should one praise the orchestra (biggest and best yet assembled by the Society) or its able conductor, Stephen Weinberg? Is the chorus to be accredited for its singing (though the girls could be louder) or for the contribu-

tions its well-planned reactions make to the drama?

Certainly the Society is entirely at fault for filling the nine major roles with good singers who are also excellent actors — and vice versa. Does one note the button-nosed pertness of Betty Rose as Tessa, and the more delicate poise of Paula Kakides as Gianetta; or does one accent the high-jinx brother act so flamboyantly played and sung by Steven Tamkin (Marco) and Juan Meyer (Giuseppe).

Again, the dashing stage appearance of Karl Deirup as Luiz and the rare beauty of Roberta Eisenhart as Casilda, and their tenderly poignant love duet, deserve mention. And it would be injudicious to slight the mincing Duke of Plaza-Toro as played by Richard Rudy, or the archly rich contralto of his Duchess, Jacqueline Meily, or the lugubriously nasal intonations and well-timed gestures of Herbert Meily as the Grand Inquisitor.

Add to this two new elements: the increasingly elaborate — and well-performed choreography, and the clear indications of the fine Italian hand of Director John Stuart, and the critic's dilemma is intensified.

Since Gilbert and Sullivan were equally unable to place the credit for this rollicking operetta, perhaps all will be content if we remark that the whole production was delightfully entertaining indeed.

Talking Rock

By Don Davis

A recent and very important development in pop music is the development of 'underground' groups. These groups, such as the Butterfield Blues Band, the Fugs, and the Mothers of Invention, whose music generally appeals to college-age people as opposed to early teens, find that their material does not fit in with that of most radio stations and thus they must resort to personal appearance and word of mouth to push their product. A prime breeding ground for such groups are coffeehouses in major cities like Boston's Unicorn. These groups generally do well in album sales without even bothering to release singles, which are more dependent on airplay than are albums.

Underground groups

Another category of 'underground' groups are the very talented groups who have failed to catch on with the record-buying public for some reason. Among these are Jefferson Airplane, the Blues Project, and Charlie Brown's Generation. Their material is airable and they have released both singles and albums. However, their music is too good to appeal to the teeny-boppers who buy most of the singles, so their singles don't sell and they don't get airplay. They too must rely on coffeehouse performance and word of mouth to make themselves known to the college students who buy their albums.

Butterfield's amplified blues

The Butterfield Blues Band made itself known to the music world at the 1965 Newport Folk Festival. Their loudly amplified blues was better received there than Dylan's amplified folk. They introduced themselves to Boston's college crowd in a very popular run at the Unicorn in the fall of 1965. Since then two albums have come out and both have made it into Billboard's 150 best sellers; their current one, 'East-West,' featuring two long instrumentals, 'The Work Song' like Herb Alpert never heard it and a thirteen minute experiment with Oriental blues sounds, is now at 102. Despite the advice on the albums to play them at top volume, the

records cannot capture the excitement which the group generates in person. Although Paul Butterfield's harmonica is the group's trademark, lead guitarist Mike Bloomfield is the member most generally praised. He is generally ranked along with Yardbird Jeff Beck and Spoonful Zal Yanofsky as today's finest rock guitarist. Only an ardent blues purist can fail to recognize the real Chicago blues feeling which this group puts across so effectively with their extreme amplification.

Fugs' sordid humor

The Fugs are in a completely different bag. Their two albums, both currently on Billboard's top 150, have relied on sordid humor for sales. Completely lacking in musical value, the Greenwich Village group does have some clean humor, humorous because of the unusual topics, instrumentation, and method of presentation. However, blatantly gross songs such as 'Boobs a Lot,' 'Group Grope,' and 'Virgin Forest' are the reason for their popularity. As poet Allen Ginsberg notes on the back of their second album, their major purpose is to liberalize society.

Unlike the Fugs and Butterfield, the Mothers of Invention's album has not cracked the charts. However this combination of good rock 'n' roll with random noises is reportedly selling well at the Coop. Included are excellent takeoffs on 1955 rock 'n' roll and Dylan's topical songs.

Jefferson Airplane

Jefferson Airplane is not underground in the West, where they are one of the most popular groups, but must rely on word of mouth for Eastern sales. Combination of male and female vocals gives them something of a We Five sound, although their guitar parts are more imaginative. They have been widely acclaimed as one of today's most talented groups, but their three singles and album (its peak was 128) have not taken off nationally.

(Please turn to Page 9)

ELSIE'S
Noted for the best Sandwiches to eat in or take out.
FAMOUS ROAST BEEF SPECIAL SANDWICH—KNACKWURST—BRATWURST with SAUERKRAUT or POTATO SALAD
"und die feinen Wurstwaren"
71 Mt. Auburn St., Cambridge
491-2842
PHIL & CLAUDETTE MARKELL

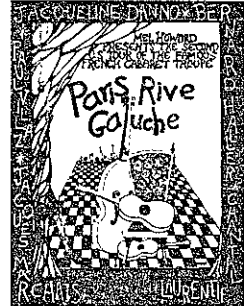
RACKETS RESTRUNG
One-Day Service
Tennis & Squash Shop
67A Mt. Auburn St., Cambridge
(Opp. Lowell House)
TR 6-5417

Tech Show Auditions
Nov. 28 & 29, 7:00 P.M.
Kresge Rehearsal Room "A"
Dec. 1, 7:30 P.M., Rm. 491, Student Center
Dec. 3 & 4, 1 P.M., "Sala," Student Center
For further information contact
DAVID ESPAR, 734-7986

UNICORN PRESENTS IN CONCERT

JUDY COLLINS
SYMPHONY HALL
Fri. Eve., Nov. 18, 8:30 p.m.
Tickets now on sale at box office
\$4.50, \$4.00, \$3.50, \$3.00

Paris Comes To Boston
PARIS LEFT BANK REVIEW
JORDAN HALL
Tickets now on sale
\$2.75, \$3.50, \$4.50, \$5.00



SUNDAY AFTERNOON, NOV. 27 — 3:30 P.M.
COMMONWEALTH ARMORY
SONNY and CHER
and DICK GREGORY
Tickets 2.75-3.50-4.75

FRI., DEC. 2nd, 8:30 P.M.
Symphony Hall
PHIL OCHS
Tickets: \$2.50 - \$3.50 - \$4.50

MAIL ORDERS: Enclose stamped self-addressed envelope, check or money order payable to Unicorn Coffee House, Boston, Mass. 02116.

THE LECTURE SERIES COMMITTEE
presents

KING and COUNTRY

FRIDAY, NOVEMBER 18

SATURDAY
NOV. 19
MIT ID
REQUIRED

COLUMBIA PICTURES presents
MARLON BRANDO in
SAM SPIEGEL'S
production of
THE CHASE
A TECHNICOLOR PANAVISION®

BOTH SHOWS
AT
7 & 9:30
IN
26-100
50c

THE SUNDAY CLASSIC FILM:

CITIZEN KANE

NOVEMBER 20 8:00 10-250
NO MIT ID REQUIRED ON SUNDAYS

French general analyses NATO's role

India and the Future of Asia by Patwant Singh, was published by Knopf last week. As world attention focuses on Vietnam and the increasing hostility of mainland China, the vast potential role of India in the changing Asian picture has caused international concern. Patwant Singh examines this potential in 'India and the Future of Asia.' He argues that Chinese expansionism threatens the security of the United States and Russia as well as India and that India may serve as a key to the balance of power in Asia. Mr. Singh founded three magazines, 'Indian Builder,' 'The Pharmacist,' and "Design." His interest gradually turned to politics and government because of their overwhelming influence on the creative life of a country. He has lectured in the United States, West Germany, and Australia.

For the Love of Mike, by Jo Hoyt, was published by Random House last month. Jo Hoyt recounts her experiences as the wife of a Foreign Service officer in this book. Her husband, Michael Hoyt, was held prisoner during the 1964 Congo rebellion and subsequent massacres. For 110 days he suffered, hostage of the drug-crazed Simbas, until his escape

Movies & Theatres

MOVIES
 Astor—'Affie,' 9:45, 11:45, 1:45, 3:45, 5:45, 7:45, 9:45; Sun., 1, 3, 5, 7, 9.
 Beacon Hill—'The Pad,' 10, 12, 2, 4, 6, 8, 10; Sun. 1:30, 3:30, 5:30, 7:30, 9:30.
 Boston Cinerama—'Russian Adventure,' 8:30 (Sun. 8), Wed., Sat., Sun., mat. 2; Sun. 5.
 Cherl—'Georgy Girl,' 10, 12, 2, 4, 6, 8, 10; Sun. 1, 3, 5, 7, 9.
 Cinema Kenmore Square—'Shamless Old Lady,' 1:45, 3:45, 5:45, 7:45, 9:45.
 Cleveland Circle—'Is Paris Burning?' 8:30 (Sun. 8), mat. Sat., Sun. 2.
 Coolidge Corner—'Alvarez Kelly,' 3, 7:45 (Sat. 3:43, 7:41, Sun. 3:35, 7:30), 'Walk, Don't Run,' 1, 9:46 (Sat. 5:44, 9:42, Sun. 1:50, 5:36, 9:30).
 Exeter—'The Endless Summer,' 2:10, 3:50, 5:35, 7:25, 9:20.
 Gary—'Hawaii,' 8:15, mat. Wed., Sat., Sun. 2.
 Harvard Square—'Mademoiselle,' 2:55, 6:15, 9:35, 'The Knack,' 1:30, 4:45, 8:05.
 Mayflower—'The Spy Who Came in Out of the Cold,' 10, 1:35, 5:15, 9; 'Never Too Late,' 11:45, 3:25, 7:15.
 Music Hall—'The Professionals,' 10, 12, 2, 4, 6, 8, 10; Sun., 1:30, 3:30, 5:30, 7:30, 9:30.
 Loew's Orpheum—'Not With My Wife, You Don't,' 10, 12:24, 2:48, 5:12, 7:36, 10, Sun. 1, 3:10, 5:27, 7:44, 9:54.
 Paramount—'The Liquidator,' 9:40, 11:30, 1:35, 3:40, 5:45, 7:50, 9:50; Sun. 1, 3, 5:05, 7:10, 9:15.
 Parlo—'The Sound of Music,' Wed., Fri., Sat., Sun., 2:15, Sun. 8:15.
 Park Square Cinema—'A Man and a Woman,' 2, 4, 6, 8, 10.
 Savoy—'Texas Across the River,' 10, 12, 2, 4, 6, 8, 10; Sun. 1:30, 3:30, 5:30, 7:30, 9:30.
 Saxon—'Dr. Zhivago,' 8:15, Sun. 7:30, Wed., Sat., Sun., mat. 2.
 Uptown—'Mission for a Killer,' 12:30, 3:30, 6:30, 9:30 (Sun. 3:10, 6:15, 9:20), 'Picture Mommy Dead,' 11, 1:55, 4:55, 7:55 (Sun. 1:35, 4:40, 7:45).
 West End Cinema—'I, A Woman,' 11:45, 1:45, 3:45, 5:50, 7:55, 11:45.
THEATRES
 Charles Playhouse—Jean Genet's 'The Balcony,' thru Dec. 11, 8:30, Sat. 5, 9, Sun. 3, 7:30.
 Colonial Theatre—Dale Wasserman's 'Man from La Mancha,' opens Nov. 15, for four weeks, touring New York Co.
 Shubert—Abe Burrows' 'Holly G. Lightly,' David Merrick, producer, pre-Broadway, thru Nov. 26.
 Theatre Co. of Boston—Peter Weiss' 'Marat/Sade,' thru Nov. 20, 8:30, Sat. 6, 9, Sun. 5.

HARVARD SQ UN 4-4500

Tony Richardson's
"MADMOISELLE"
 scenario by Jean Genet
 starring Jeanne Moreau
 2:55, 6:15, 9:35
 plus
"THE KNACK"
 1:30, 4:45, 8:05

BRATTLE SQ TR 6-4228

Homage to Nikolai
 Cherkassov
 Today: "Ivan the
 Terrible, Part I"
 Sat.-Sun.: "Ivan the
 Terrible, Part II"
 Mon.-Tues.-Wed.:
 "Moussorgsky"
 Shows daily 5:30, 7:30,
 and 9:30
 Matinees Sat. & Sun. 3:30

from the same machine-gun burst which killed the heroic missionary Dr. Paul Carlson. NATO and Europe, by General Andre Beaufre. French withdrawal from an active role in NATO has dramatized the crisis in policy for the defense of the North Atlantic. Though the General strongly believes in the continuing need for NTA, he criticizes the complex military structure through which American officers have controlled the alliance and prevented effective military integration. Changes within NATO could become the means of ending the division of Germany and related coldwar tensions. General Beaufre suggests that the Soviet Union might eventually countenance the reunification of Germany within a European context in which the United States does not play a significant role. The resulting

military and economic arrangements for NATO's European segment could serve as the basis for a federal union of the twelve leading European nations. With the reform of NATO thereby becoming the first step toward European political unification, the "two pillar" partnership with the United States envisioned by President Kennedy could approach reality. General Beaufre has served his country with distinction in Algeria, Tunisia, Italy, Germany, Indochina, Suez, and France. He is a 'grand-officer' of the Legion of Honor and holder of the Croix de Guerre with eleven citations. He was chief of the General Staff of SHAPE and, in 1960, head of the French delegation to the Permanent Group of NATO in Washington. His book was published by Knopf this week.

Talented groups fail to get airplay; utilize underground force for sales

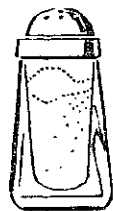
(Continued from Page 8)
 The Blues Project's album, 'Live at the Cafe Au Go Go' (in Greenwich Village) did well, having hit a peak of 77, but they too have missed with several singles. With noted blues guitarist Danny Kalb and organist Al Kooper as leaders, this group, discovered a year ago in the Cafe Au-Go-Go at a 4-day concert series called the 'Blues Bags,' certainly has talent. Their version of 'Catch the Wind,' on the album, is fabulous, the best cut of Donovan's tune ever made. Charlie Brown's Generation, who appeared with the Mamas and the Papas at the Common-

wealth Armory, are also in a blues-rock bag and have the talent to make it, given a little airplay.



A limited number of tickets will be available at the door, Kresge Auditorium, for the MIT Gilbert & Sullivan Society production of THE GONDOLIERS. All seats are reserved, \$1.75. Curtain time: 8:30 P.M. TONIGHT and SATURDAY

What about salt in beer?



We have nothing against salt. On radishes. Or french fries. But not in beer. Putting salt in your beer, some say, perks up the head ... or livens up the taste ... or makes the beer "drier." With Budweiser, though, all salt can do is make it salty. Budweiser is complete ... a ready-to-drink beer if there ever was one. Wonderful clarity. Real beer aroma. A taste and a smoothness we know of in no other beer.

So save the salt for the popcorn. We put heart, soul and our exclusive Beechwood Ageing into Budweiser. All you need to enjoy it is a glass ... and a taste for the real thing.

Budweiser

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

Chamber music performed by the Pacific String Trio

The MIT Chamber Music Series will present the Pacific String Trio in a performance of the String Trio by David Epstein, associate professor of music at MIT and director of its symphony orchestra. Monday at 8 p.m. Also included in the program are trios by Haydn, Schubert and Ysaye. The performance will be held in the Sala de Puerto Rico in the Student Center. Admission will be free.



The Pacific String Trio, shown above, are, from left to right, Forrest Midtmoen, viola, William Harry, cello, Nanette Levi, violin. They will perform Nov. 21, at 8 p.m. in the Sala de Puerto Rico in the Student Center.

Theatre mistake

'The Balcony' is being performed at the Charles Playhouse and not at the Theatre Company of Boston, as was previously stated.

Enjoy the Finest Italian-American Food and Delicious Pizza

Simeone's
 ITALIAN-AMERICAN RESTAURANT
 Choice Liquors and Imported Beers

21 BROOKLINE STREET, CAMBRIDGE — Tel. EL 4-9569
 (at Central Square)

★ Open Every Night 'til Midnight — Free Parking
 ★ Ask about Student Discount Books

VISA

Just ask for a whatsyamacallit

Peter will know you mean Shashlyk*

* Shashlyk Flavorfully marinated cubes of lamb, pepper, tomato, and onion, en brochette, cooked over the charcoal flames and served on a wedge of Syrian bread, with pickle chips and potato chips. Cooking time, 10 minutes. .99

at
 twenty
 chimneys

Sandor, Hungarian grad opens concert series in Sala

By John Montanus
John Sandor, a resident of London, England now taking his graduate degree in metallurgy at MIT, opened the Student Center Committee's noontime concert series with a dazzling rendition of several piano classics. Sandor, a native Hungarian, has studied piano with outstanding teachers here and in Europe.

The program, presented Tuesday in the Sala de Puerto Rico, started with clearly articulated and precise performances of Bach's C minor Fantasy and Beethoven's 'Waldstein' Sonata. The two Chopin pieces which followed, the C-sharp minor Waltz and the Scherzo in the same key, were feelingly played, although parts of the Scherzo were a bit muddled. The final piece on the program, Debussy's sonorous 'Reflections in the Water,' was the most difficult and the best played work of the performance. After the brilliantly interpreted strains of this piece faded, Sandor was compelled to play two encores, taking

his bows the meantime on crutches.

The Student Center Committee plans a concert featuring student musical talent at least once every two weeks. Students or chamber groups interested in presenting a program should contact Dave Peterson through Mr. Murphy's office, x3915.

German overseas ensemble performs at Loeb Theatre

Die Brucke—the German Overseas Ensemble—will perform G. E. Lessing's 'Nathan Der Weiss' November 27 and 28, and Carl Sternheim's 'Burger Schippel' November 29. Presented by the Loeb Drama Center of Harvard University, di Brucke is an ensemble of professional actors, gathered together to give audiences an impression of the great tradition of German dramatic art as performed in German.

Undergrads need 70

Draft test given this week

Selective Service Qualification Examinations are being given today and tomorrow. Those taking the test today should report to room 50-340. Those taking the exam tomorrow may obtain room assignments in the information office, 7-111.

The examination is marked on the basis of 100 points total. A

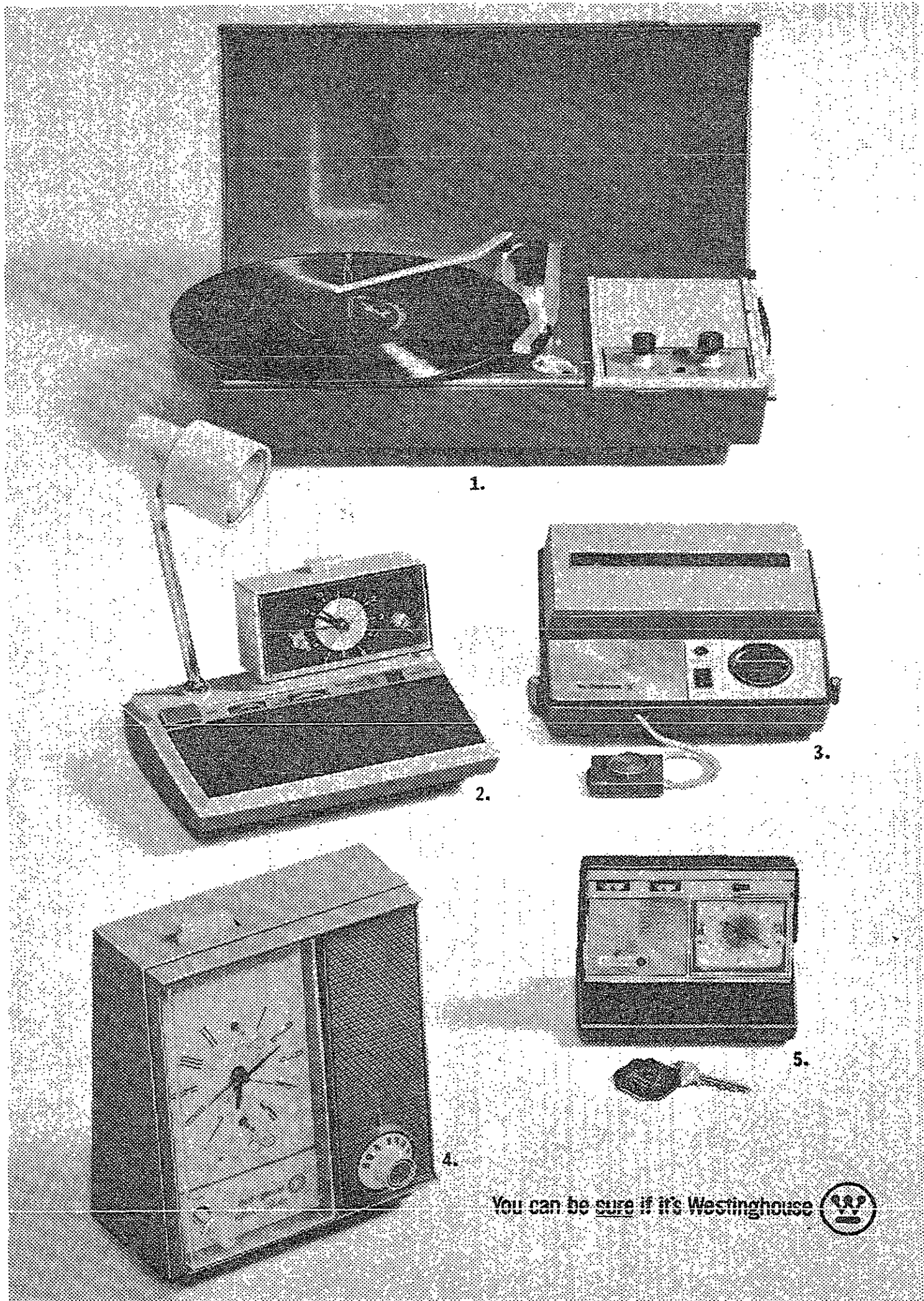
score of 70 or better represents a strong recommendation to the local draft board to allow the student to remain in undergraduate school. A score of 80 or better represents a strong recommendation to the local board to allow the student to complete his undergraduate education and continue his academic work in graduate school.

The draft exam is not the only method by which students may seek deferments, although it is a recommended one. The draft boards will typically grant student deferments to those students who are in a specified fraction of their class, this fraction being a function of whether the student is a freshman, a junior, or a senior.

Music of Renaissance featured in concert in memory of composer

A concert of music of the Spanish Renaissance, under the direction of Helen Keaney and Daniel Pinkham, will be presented Wednesday, at 8:30 pm in Jordan Hall by members of the student body and faculty of the New England Conservatory of Music. The concert, which is under the patronage of the Spanish Consul General to Boston and Senora Victor Sanchez-Mesas, is being presented in observance of the 400th anniversary of the death of Spanish composer Antonio de Cabezon (1510-1566). The blind Cabezon, official organist and clavicordist for Charles V and Philip II, was one of the earliest composers for keyed instruments. Admission is free.

The Pavement Narrows



We asked Westinghouse to send us study aids for serious students.

So what did they send us?

Portable phonographs!
Pint sized tape recorders!
Clock radios that wake you up to frug music!
Study aids?

1. This is a 10 pound battery operated or plug in portable phonograph. It's the new Westinghouse Solid State, 4-speed automatic. Plays anything, anywhere: language records at jam sessions. Or the Frug at cram sessions. Some study aid! Model 135AC—\$59.95.

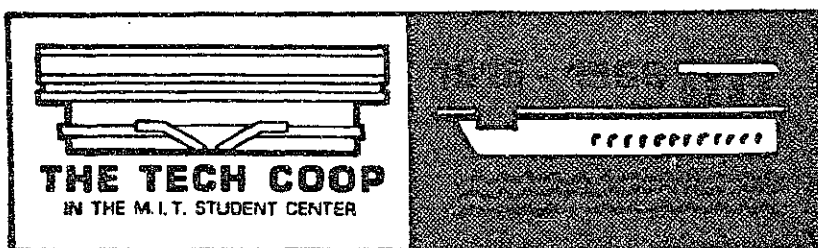
2. For the student who has nothing: a high intensity lamp, a clock and a radio all in one. The alarm gizmo works with a buzzer or the radio. The lamp is dandy for needlepoint. And the clock keeps time. Its name is Lumina. Model 974XL—\$49.95.

3. You too can be a secret agent with this battery powered, highly portable tape recorder. It has an uncanny stow-away mike that makes it indispensable for 'those eight o'clocks when note taking is a physical and mental impossibility. Model 27R1—\$29.95.

4. The Westinghouse Space Maker Clock Radio was designed for the average enormous college room. It's only 7 inches wide, fits on a cluttered night table and gets you up to music, or a heartbreaking buzzer. Model 215L5—\$23.95.

5. This is a tiny travel alarm clock-radio that folds up flat and fits into an overstuffed suitcase. And just so you'll never miss it, it has a metal plate for your initials or name. It's the ideal study aid to take home for the holidays. Model 968PL—\$29.95.

You can be sure if it's Westinghouse



OUR 50th ANNIVERSARY YEAR

Store Hours: Monday thru Saturday, 8:50 a.m. to 5:30 p.m.

Lincoln Lab director named

By Karen Wattel

Dr. Milton Clauser of Arlington, Virginia has been appointed director of Lincoln Laboratory. C. Robert Wieser of Belmont, Massachusetts was named as deputy director.

Creative contribution

President Howard Johnson who made the announcement stated, "Under the leadership of Dr. Clauser and Mr. Wieser the laboratory will continue to contribute creatively to vital national needs, as it has since its inception in 1951. In addition we look forward to the development of stronger ties between Lincoln Laboratory and the academic programs at the institute."

Applications of electronics

Established in 1951 by MIT at the request of the Department of

Defense, Lincoln Laboratory is primarily interested in electronics, with emphasis on applications to national defense. Its general research program consists of basic and applied investigations in such areas as solid state physics, chemistry and metallurgy, data systems, communications, radio physics, and astronomy.

Dr. Clauser graduated from the California Institute of Technology and received his PhD there in aeronautics in 1937. For thirteen years he was with the Douglas Aircraft Company, and in 1950 he became head of the School of Aeronautics at Purdue University. He served as vice president and director of research of The Space Technology Labs., Inc., a subsidiary of the Ramo Wooldridge Corporation and as president and chairman of the Board of the Clauser Technology Corporation, which he organized.

Advisory committees

He has served on various scientific advisory committees for the Air Force, the National Ad-

visory Committee for Aeronautics, its successor organization, NASA, the Atomic Energy Commission, and the President's Scientific Advisory Committee.

Mr. Wieser graduated from MIT with SB and SM degrees in electrical engineering. While on the staff of the Digital Computer Laboratory he supervised studies of the Applications of the Whirlwind I computer to air traffic control.

Work at Lincoln Labs

He has been associated with Lincoln Laboratories since 1951, when he became leader of the SAGE Design Group there. In 1955 he became associate head of the Aircraft Control and Warning Division and a member of the Lincoln Laboratory Steering Committee. In 1957 he was appointed head of the division, which became the Systems Division in 1958. In 1964 he was appointed assistant director of the laboratory. He has served as acting director since the death of Professor William H. Radford last May, and will continue in this post until Dr. Clauser's appointment becomes effective January 1, 1967.

Aldrin used his Tech education to maneuver during space walk

By Mark Bolotin

Maj. Edward E. Aldrin, Jr., of the Air Force, one of the astronauts on the latest Gemini spacecraft, had the opportunity to make direct use of an MIT education during his orbiting. Aldrin, who received his DS from MIT in 1963, had written his dissertation on orbital mechanics and rendezvousing in space.

Test his theory

When the Gemini vehicle, piloted by Capt. James A. Lovell, Jr. of the Navy with Major Aldrin, chased around the earth last Friday night, caught up with, and rendezvoused with an orbiting Agena rocket, the astronauts were just proving Aldrin's theory.

Major Aldrin may be the most technically competent of the United States astronauts. He is very serious about his work and his career and is a firm believer in thorough and cautious preparation.

Prepared for space walk

Exemplifying his careful readiness was his walk in space Sunday. He was able to do more work with less effort than any previous astronaut because he had spent several weeks studying space exhaustion. This problem had plagued American astronauts during earlier spacewalks.

When he left the cabin of the Gemini spacecraft, he knew both exactly what he wanted to do and the best way to do it. Consequently, it was no accident that he became the first astronaut to overcome the fatigue problem.

Longest exposed to space

His feat followed his performance at an open hatch of the Gemini 12 Saturday, when Major Aldrin set a world record of two

hours and twenty-eight minutes—the longest time that any man has exposed himself to the environments of space outside an orbiting vehicle.

Major Aldrin's determination and preparedness was confirmed by his father, who also received his DS from MIT. E. E. Aldrin said "Buzz is positive about his work. When he grabs hold of something, he usually makes it better before he turns it loose."

Almost left MIT

Aldrin's determination played a major role in his completing his education. While he served a tour of duty in West Germany soon after the Korean conflict, he became good friends with Lieut. Col. Edward H. White, 2nd, presently an astronaut. When White was accepted as an astronaut in 1962, Aldrin was tempted to leave MIT without his doctorate and apply to be an astronaut.

Eventually, he chose to continue in school, but his interest in the space program was evident in the dedication of his dissertation which was dedicated to "the men in the astronaut program." "Oh, that I were one of them," he wrote in the dedication.


Became astronaut

He received his wish later that year, when he was transferred by the National Aeronautics and Space Administration to the astronaut program.

Major Aldrin almost missed being able to fly in space. Several years ago, he injured a knee while jumping on a trampoline, and last year he reinjured the knee while playing squash. However, an operation to remove torn cartilage repaired the damage.

1966 SUNBEAM ALPINE CONVERTIBLE
 \$2000 or best offer. Like new, 4-speed. Interferes with studies. BOB FREED:
 DL 8216 or 491-6583

Meet the only man at M.I.T. with 139 jets.



Jeffrey Silverman
TWA Campus Representative

SKIERS
 Conway, N.H. Rent my modern spacious attractive 7-room Ski House. Sleeps 12. Beautifully furnished. All conveniences. Call Sam Robbins 527-1301 332-2611

Scuba Diving Classes
 Seven Days a Week.
 All Equipment Supplied.
 AVenue 2-5818



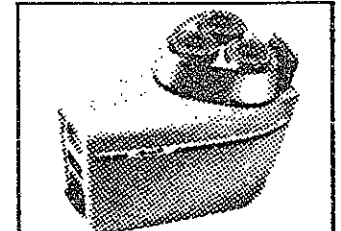
DICK'S STUBBLE MAKES HIM LOOK SO BEATNIK—UGH!

GIVE HIM ME! I'LL MAKE HIM A NEATNIK. QUICK! SLICK! AND NOT A NICK!

The Norelco 'Flip-Top' Speedshaver® 20 — ZOWIE! This beard bather shaves close, yet comfortable. Famous rotary blades kiss whiskers good-bye. Never a nick, cut or scrape. Shaving is a sheer delight and flip-top cleaning is flip. Price? Double ZOWIE!!!! Less than a cashmere sweater!

Eyes right for extra speed. The new Norelco Tripleheader Speedshaver 35T finishes shaving nearly 40% faster than ever before. And so close we dare to match shaves with a blade. With Microgroove floating heads and pop-up trimmer.

Norelco® the fast, close, comfortable electric shave
 © 1966 North American Philips Company, Inc., 100 East 42nd Street, New York, New York 10017



He's the guy to know when it comes to travel. TWA specially trained him to make it easy for you to go places in the U.S. and to Europe, Africa and Asia. He's the man to see for TWA 50/50 Club cards—you can get 'em right on the spot. Working with your local travel agent, he can help you with travel plans, tours, schedules, fares, ticket arrangements—right on campus.

Easy? Just call Jeff at 232-3258. Tell him where you want to go—and he'll warm up a jet.

Welcome to the world of **TWA** Trans World Airlines

MIT of the East

SEATO founds Asian school

By Richard Stern

The Asian Institute of Technology is striving to become an "MIT of the East." This new school in Thailand is already showing great promise.

Walt W. Rostow, security advisor to President Lyndon Johnson and former MIT professor of Economics is quick to point out the significance of the school. "The Asian Institute of Technology as a regional technical school is the only school of its kind in the world. It is the prototype for the other important regions of the developing world which need such multinational institutes badly."

Seato Project

The AIT was originally founded as a project of the Southeast Asia Treaty Organization (SEATO). Its present enrollment of approximately 110 students will jump to 1200 when the new 400-acre campus on the outskirts of Bangkok is completed. Although the school's present emphasis is on engineering, it will spread as MIT did into the areas of economics, business administration, and engineering administration.

MIT Approach

Rostow emphasized that the new Institute would be modeled very

much like MIT, with application of theoretically teaching to develop people able to meet the problems of the area.

This is not the first Asian school to be modeled after Tech. In India an institute of technology was established a number of years ago with the help of MIT and a number of other schools.

The present curriculum of the new Institute reflects the needs of

emerging Southeast Asian nations. Courses are offered in hydraulics, public health, soil, structures, and transportation, with efficient road-building and use of water power receiving extra emphasis.

Students From 6 Nations

Some 150 students have already received master of engineering degrees from the school, although it began from scratch only seven years ago.

Kibitzer . . .

(Continued from Page 7) South now must determine ruffed with, a trump trick would be established for the defense.

Holding the ten of diamonds gave declarer a possible play for the hand. Hoping that West has a singleton Ace of diamonds, he can duck a trump all the way around. When West leads the fourth heart, dummy can ruff with the Queen and lead a trump to finesse for East's Jack. As an alternate line of play, declarer can lead a low trump from dummy and insert the ten. If East has a doubleton Jack, West will win and lead hearts. The fourth heart is trumped with the Queen and declarer crosses over to his King to pull trump.

West's distribution in order to choose which play to take. He decided that with 5-4-3-1 distribution West would probably have made a take-out double of two diamonds, while with 5-5-2-1 he would be unlikely to have the defensive structure to double three diamonds, yet not have good enough a hand to prefer to bid his second suit. On the other hand, holding two diamonds (5-4-2-2 or 5-3-3-2 distribution) would be consistent with his bidding. Consequently, a low trump was led to declarer's ten to East's Ace. With everything on-side, the rest of the hand was easy.

Ugliest fool with BU Queen; Tech holds rally for Hungary

(Continued from Page 6)

Man on Campus contest was the reigning Queen of Boston University. The Queen and the U M O C were both featured on W T B S; they played requests and answered questions.

Action for Hungary

Although classes were not officially suspended, the faculty and administration co-operated to allow students to attend a large political rally entitled "Action for Hungary." Over 400 from local schools, joined with MIT students

at the rally. Response was drawn in the form of telegrams from Senators Humphrey and Knowland.

5 years ago . . .

The freshman class won Field Day ('65) and 1200 people attended J P.

The Spring Weekend Committee ran into scheduling difficulties as the only free weekend conflicted with the Massachusetts State High School Science Fair.

MIT STUDENTS-FACULTY-STAFF

YOU MAY PURCHASE

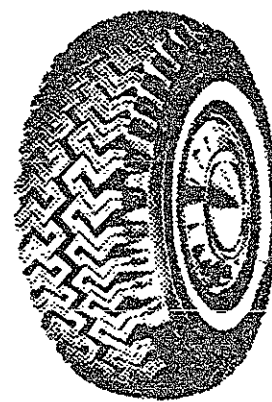
Winter Tires

AT WHOLESALE PRICES

Over 25,000 Tires in Stock Including Foreign and Compact Sizes

— Identification Card Required —

NEW! PERFECT QUALITY



	Tubeless	Plus F.E.T.
600/650 x 13	\$ 9.98	\$1.83
775/750 x 14	12.95	2.20
825/800 x 14	13.95	2.36
855/850 x 14	15.83	2.57
775/670 x 15	12.95	2.21
815/710 x 15	13.95	2.35
845/760 x 15	15.83	2.55
900/915/820 x 15	17.80	2.78

NO TRADE REQUIRED

NATIONWIDE GUARANTEE • NO LIMIT ON MILES OR MONTHS
(Adjustment Prorated on Tread Depth, Based on Actual Cost Prices)

FULL RETREADS — PERFECT QUALITY

GOOD YEAR OR Firestone

All 13" & 14" Sizes **\$8.95** No Tax or Trade In Required

TERMS AVAILABLE
FREE TIRE MOUNTING
NEW WHEELS FOR ALL CARS

CAMBRIDGE TIRE COMPANY

"Nationwide Wholesale Warehouse Distributors"
290 Albany St., Cambridge, Mass. 02139
Hours — 7:30 A.M. to 5:30 P.M.

Mon. & Wed. Eves. 'til 8:30 P.M.
Saturday 7:30 A.M. to 4 P.M. **UNiversity 4-7575**
OVER A HALF CENTURY OF SERVICE

SAFETY-SPIKED WINTER TIRES IN STOCK



BATTERIES
Free Installation
Most Cars
6V — \$6.83 exch.
12V — \$9.48 exch.

Go United for Thanksgiving!

Fly United home this Thanksgiving. We serve 111 U.S. cities, uniting more college students with their families and hometown friends than any other airline.

Call your campus representative: Paavo Pyykkonen '67, at 482-6430. He's a fellow student offering you lots of help with all your travel needs. Or call United reservation at HU 2-7900.



Please Note: Youth Fare is not available on any airline on November 23 or 27.

Universities plan film library

By Linda Stewart

Plans are still being formulated by MIT and four other universities to build a multi-million dollar film library which would house a collection of the world's greatest films.

The library, which would allow for a greater variety of courses on films, will centralize the collections of MIT, Harvard, Brown, Brandeis, and Boston University.

Neutral ground

Last year, as was noted in Footnote 52, only four schools were involved in the project. Brown is the latecomer. The library will be located on some

'neutral ground' somewhere between the five schools. Currently, none of the individual college collections is large enough to permit an overall study of the history and criticism of the cinema. It is expected that the library will be in partial operation by some time next fall, and it will probably be located in the Boston area.

The five colleges will apply for grants from a number of foundations to buy films which are not already in their collections. At least 400 films will be needed for a representative collection.

Only for scholars
The selected movies will be used

for scholarly research rather than commercial exhibition. Students will be able to use the individual films for writing honors theses and will also be able to make comparative studies of films by great directors such as Eisenstadt, Fellini, and Houston. It is stressed that the library would not compete with public theatres and movie houses by sponsoring showings to large undergraduate audiences.

The commercial value of the films will be one of the major problems in creating an adequate library. Because many of the movies are still shown publicly, owners will have to be assured that they will be used only for scholarly purposes. There would be virtually no chance of acquiring rights to the films if the universities planned to sponsor public showings.

Contemporary films
The library hopes to acquire
(Please turn to Page 14)

WANTED

Men looking for extra money who would be willing to sell
ELSIE'S SANDWICHES
Contact Elsie's, 491-2842

The marrying fever seems to have hit the coeds at Michigan State University. Seniors seem to have the disease the worst, sometimes neglecting their studies to go out on the prowl for some unfortunate male. Some of the girls have no intention of hiding their intentions. One put the following ad in the MSU newspaper:

"Tutor needed; blonde coed, medium height, nice smile, likes to cook, needs tutor in Math 483, preferably tall, male, over 21, ambitious, etc. Object??"

Throw the bums out

Ever since study hours have been in force at the womens dormitories at Ohio State University, certain girls have found themselves without a room. The University gives dormitory councils the right to eject coeds who make excessive noise during study hours, from the hours of 7 am to 12 midnight. Already four freshmen have been banned from the dormitory for four consecutive nights. The dorm authorities suggested areas where the girls could study for the hours they weren't permitted in their rooms, 7 pm to 11 pm, and advised that the girls stay at least in pairs.

An 18 year old freshman at the University of Maryland was arrested for the possession of marijuana and barbituates. After he was released from prison, University officials forbade him use of the school dormitories. The school has no known rules banning the use of drugs on campus, but there are regulations about "acceptable standards of behavior."

It seems that blood drives are in style this time of year. We have just finished our IFC blood drive, with a goal of around 400 pints. Among other schools enlisting the arms of healthy young males about campus is MSU, where the goal for the blood drive is 1776 pints. What a spirit.

Speaking of Coincidences

The students of Wooster College will offer a dramatic presentation of Peter Weiss's controversial play 'The Persecution and Assassination of Jean-Paul Marat as Performed by the inmates of Charenton under the direction of the Marquis De Sade.' Anybody who couldn't get tickets for MIT's presentation, Wooster College is about 800 miles to the west.

Excellent surroundings

Students at Wayne State University have been treated to a novelty in want ads:

THE PLAYBOY CLUB has immediate openings for Parking Attendants, Coatroom Attendants & Bus Boys. Full or Part Time. Good Pay. EXCELLENT SURROUNDINGS."

Election time—1968

Political Science Professors at Michigan State University have picked their ideal Republican Presidential ticket. Two of the profs, who handled election night commentary on local TV picked Romney (MSU??) and Brooke in that order. Commented the prof, "If Romney wants to lose, he'll pick Reagan."

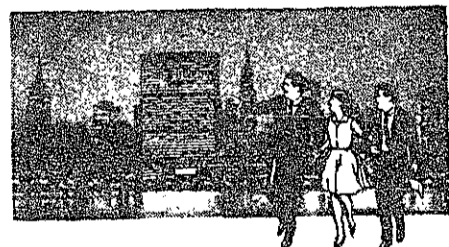
The following article has appeared in the Virginia Tech Student Newspaper:

ATTENTION ALL STUDENT (sic) Bugle pictures will be taken early in the winter quarter. However, you must order your Bugle now! Contact your dorm representative now! TIME IS RUNNING OUT. Art??

The faculty of Wayne State University put on an art show in the new Community Arts Build-

(Please turn to page 14)

COMING TO NEW YORK?



MAKE WILLIAM SLOANE HOUSE YMCA YOUR HEADQUARTERS IN N. Y. C. REASONABLE • COMFORTABLE • CONVENIENT

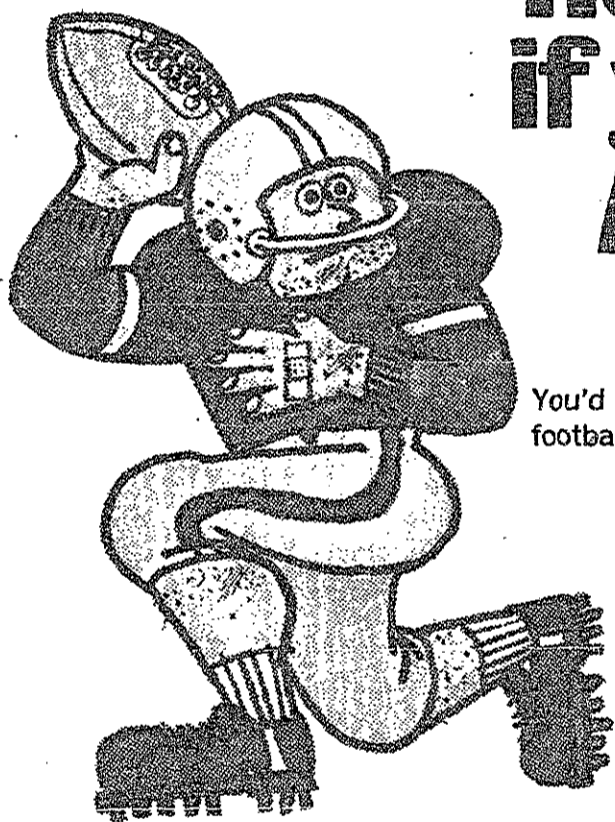
Save money. Go further. Stay longer. The William Sloane House YMCA has 1491 rooms available to men, women and groups, sensibly priced at \$3.15-\$4.60 single; \$5.00-\$5.20 double. Rates include YMCA membership. Enjoy convenient transportation to everything.

Coffee Shop • Cafeteria • Laundry Barber Shop • Check Room Tailor • Sightseeing • TV Room Information

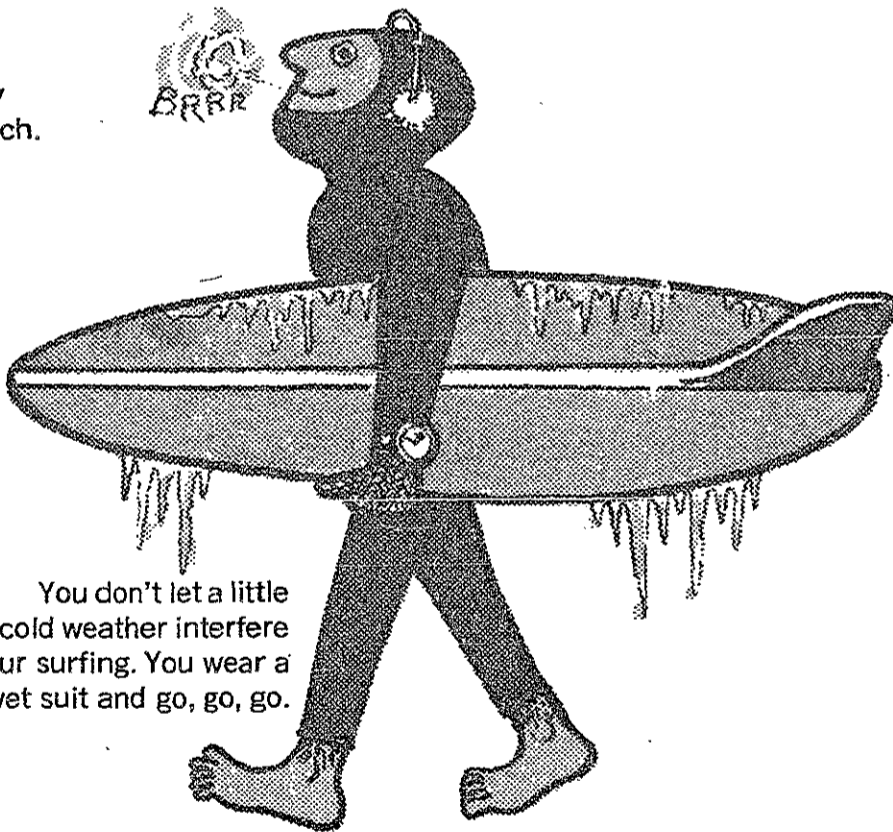
REQUEST BOOKLET [C]

WILLIAM SLOANE HOUSE YMCA 356 WEST 34th ST. NEW YORK, N.Y. 10001. NY 5-5135 ON 34th STREET - 1 BLOCK FROM PENN STATION

How to tell if you're an Ale Man



You'd rather play football than watch.



You don't let a little thing like cold weather interfere with your surfing. You wear a wet suit and go, go, go.

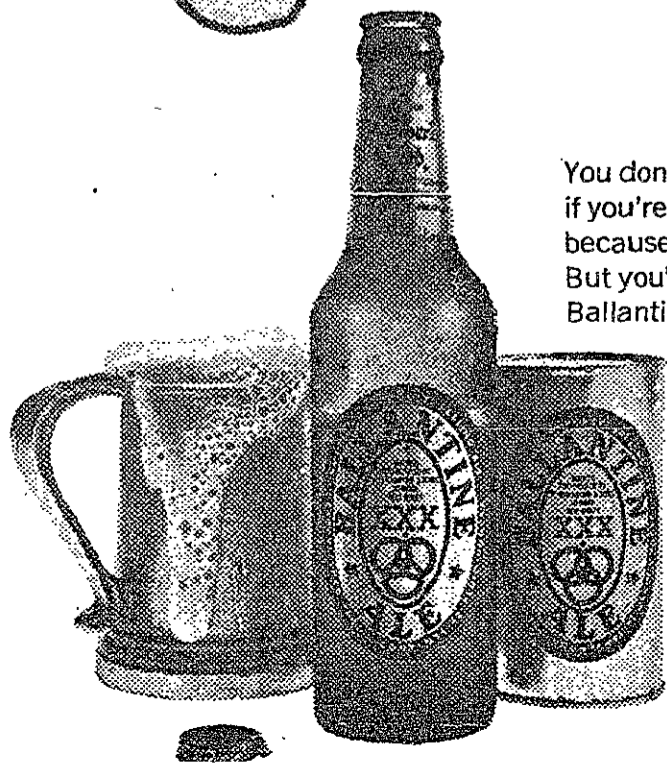


You still think James Bond books are better than James Bond movies.

“Your friends think that four-on-the-floor is it. Your last car had a five-speed box.”

You don't have to read an ad like this to find out if you're an Ale Man. You know you're an Ale Man because you graduated from beer ages ago. But you're still explaining to your friends how Ballantine Ale is light like beer but packs a lot more taste.

You wish they'd discover the clean, dry, tangy taste of Ballantine Ale for themselves—and let you do the things an Ale Man likes to do.



Dedicated to Ale Men everywhere. May their numbers increase. P. Ballantine & Sons, Newark, N. J.



Tech Coop Optical

NEXT TO CUSTOMER SERVICE IN BOOK DEPARTMENT
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-Saturday, 8:50-5:30 — Lunch 2-3 (Closed)
Phone 491-4230, Ext. 50, or from MIT dial 8950

THE TECH COOP

IN THE M.I.T. STUDENT CENTER

44 Massachusetts Avenue, Cambridge, Mass. 02139



You know the name and phone number of your Ballantine Ale distributor by heart. You should. You've called him enough to arrange for parties.

Secretary's work includes salaries and publications

(Continued from Page 1)

have now established formal liaison programs with industry, patterned after MIT's experience.

In addition, Mr. Fulmer's office serves as an advisor to the faculty and staff and to interested groups outside of MIT regarding the Institute's many organized relationships with industry. MIT's basic association with industry is underlined by the fact that three-quarters of the graduates from the Institute ultimately pursue their careers in industry.

Committees, Boards and Panels

Mr. Fulmer is a member of the Academic Council, the Administrative Council, the Budget and Personnel Committee and other committees concerned with publications, administrative salaries, and the MIT Endicott House. His

Film library set to open next fall

(Continued from Page 13)

such early classics as 'Birth of a Nation,' and 'The Life and Death of a Hollywood Extra.' In addition, contemporary films like 'Jules and Jim,' 'Sundays and Cybele,' and 'Lo Dolce Vita' will be sought.

When sufficient funds are available the library would be expanded beyond the original goal of 400 films. This would mean collecting experimental movies like Andy Warhol's, and many minor films by important directors, as well as a number of documentary films.

Nude in art show; predict suicides

(Continued from Page 13)

ing on campus. Among the exhibited works was one which featured a stereoscopic view of a photo of a nude woman. Various interpretations of the sculpture ranged from "The guy who did it is a sex maniac," to "He's actually trying to show that he can't sculpt worth a darn."

Moderator magazine, a national magazine for college students, predicts that there will be 1,000 campus suicides this year. Another 9,000 will attempt to take their lives, but fail for one or another reasons. About 90,000 students will threaten to take their lives.

related duties include the general correspondence of the Corporation, protocol, special arrangements for Institute visitors, dedicating of major buildings, and the planning of Institute conferences. The Director of the Registry of Guests reports to Mr. Fulmer.

Received Master's at MIT

Mr. Fulmer received his Bachelor's degree cum laude in mathematics from Miami University (Ohio) in 1949, completing his undergraduate work there in three years. He later did graduate work at Harvard and MIT, receiving the Master's degree in economics and science here at the Institute. In 1952 he left MIT to teach as an instructor in economics at Williams College. He served the following year in the Executive Development Program of the then School of Industrial Management and later joined the staff of the Industrial Liaison Office in 1953. He became its Director in 1958. During the Second Century Fund campaign he served as Executive Assistant to Dr. Killian. In 1963 he was appointed a Vice President.

Hockey players needed to fill freshman squad; no experience required

Most freshman athletics at MIT are filled with men who have not previously played the sport in organized competition. As in crew and lacrosse very few guys have ever played ice hockey. The freshman team has always consisted of players who, for the most part, did not have a high school hockey team.

There is an urgent need for more men to come out and learn the sport. There, they will start with the basic fundamentals, skating and stick-handling, so that in the coming years they will be able to move up to the Junior Varsity and, eventually, the Varsity.

Anyone who has skated and who may be interested in knocking heads on the ice (other people's heads) should contact Coach Ben Martin immediately.

SALES SERVICE
VOLVO
The Swedish Wonder Car
DALZELL MOTORS
605 Providence Highway
Dorham Plaza 329-1100

Hillel to present Morton Spiegel in lecture Sunday

The MIT Atid-Hillel group is sponsoring a lecture by Dr. Morton Spiegel on "Conservative Judaism" Sunday at 7:30 pm in the Mezzanine Lounge of the Student Center. Dr. Spiegel, Director of the Department of Education of the United Synagogue of America, is a renowned, highly intellectual, and quite interesting speaker.

Neal, McCrory chosen delegates to National IFC Conference

By Karen Wattel

Tom Neal '68 of Phi Delta Theta and Bob McCrory '68 of Kappa Sigma were elected delegates to the National Interfraternity Conference at the IFC meeting on November 10.

Also named were the members of the Community Relations Committee: Steve Douglas '67 (chairman) of Sigma Alpha Epsilon, Tom Wood '69 of Delta Upsilon, Mike Devorkin '69 of Alpha Epsilon Pi, and Jack Rector '68 of

Sigma Alpha Epsilon. Doug Miller '67 of Kappa Sigma were nominated for rushing committee chairman.

A report on the pledge trainors conference was given by Jeff Silverman '68 of Zeta Beta Tau. Topics discussed at the meeting were the philosophy of pledge training, grade requirements for initiation, freshman academic problems, experimental pledge training, and help week.

Does
this
spot
feel sticky?

NEITHER DOES OLD SPICE STICK DEODORANT Dries as it applies . . . in seconds. And stays dry! Gives you fast . . . comfortable . . . dependable deodorant protection. Lasting protection you can trust. Try it. Old Spice Stick Deodorant for Men. 1.00 plus tax.

SHULTON



All you need to know about Europe in 3 words.

1. Trans
2. World
3. Airlines

Send the coupon and we'll tell you all about Europe. Study tours, fun tours, independent and group tours. We've got the dope on car rental or purchase. Youth hosteling and camping. And we've got the TWA 50/50 Club for half-fare flights in the U.S. Remember, TWA has direct service from major U.S. cities to the big vacation centers in Europe, Africa and Asia.

Send for details now!

Trans World Airlines, Inc., P.O. Box 25,
Grand Central Station, New York, N.Y. 10017

Please tell me about Student Travel to Europe.

Name _____

School _____

Address _____

City _____ State _____ Zip Code _____

Nationwide
Worldwide
depend on

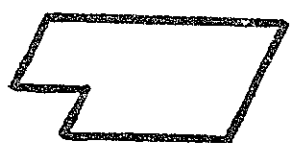
TWA

XEROX COPIES

5¢ first copy of an original

3¢ each, second thru tenth copies of the same original.

2¢ each, from the eleventh copy on



gnomon
copy

319 Mass. Ave., Cambridge
Between MIT and Central Square
Open 9-6, Mon. thru Sat.
Phone: 868-2715

Service while you wait, or overnight.

Tech sailors finish season with praiseworthy record

Looking back on the season the sailors have finished with a winning record. The engineers had two firsts, one second, three thirds, one fourth, and one fifth. Regattas averaged about nine competing teams in number.

The sailors followed a basic trend. At the beginning of the season, the squad was hampered by a loss of sailors. The first four meets were spent gaining experience both in sailing and sailing conditions. From the onset Tech seamen were strong in the dinghy classes. Fortunately, most of the regattas were in the dinghy class. The outstanding dinghy sailors were Chet Osborn '67, Tom Maier '67, Joe Ferreira '67, and Dick Smith '69.

These four regattas consisted of a third place in the Coast Guard Invitational, a third place in the Denmark Trophy, a third place in the Jack Wood Trophy, and a

fifth place in the minor Finn Class Invitational at Harvard.

However, after this fourth regatta, the seamen had gained enough experience to win.

MIT swept the Fowle Eliminations, the Nevins Trophy, and placed second in the NEISA Fall Regattatideing Coast Guard but losing the decision to Coast Guard.

Juniors, seniors favored

Crews ready for Class Day

By Chuck Kottlinger

MIT's crew squads will bring the fall season to a close with the annual Class Day Regatta on the Charles tomorrow afternoon.

The first race of the day sees the junior lightweights, winners of the Lightweight Richards Cup last year as sophomores, challenged by the seniors and this

Tech canoeists plan for Olympics

By Tony Lima

At the 1972 Olympics MIT will have at least one person in each kayak and canoe race if current plans are followed, the White Water Club announced recently. Right now, the club has the potential, both in racers and practice time.

The White Water Club was started two years ago by Sam Galpin

'66 and current president Tom Wilson. At that time, they had only one racer. Today, the club has grown to include seven racers and twenty cruisers. By spring, they expect to have at least a dozen racers and forty cruisers. These totals include several boats built by members over the summer.

Practice facilities available

Right now, the club is starting their practice sessions in the Alumni Pool. These are held on alternate Tuesday nights with two hour sessions. In addition to these facilities, there are two other superb practice sites nearby. The Charles River offers training in technique for both slalom and down-river racing, while Cohasset, Massachusetts, offers a tidal chute with continuously varying water, from flat to very heavy, with perfect safety.

Tech club not alone

MIT is not the first college to enter white water racing. Penn State has five of the top ten

canoeists. Dartmouth has two more top canoeists and four of the top seven kayakers. Cornell produced the American canoe champion, who is now at Boston U. with three other racers. Last year, Harvard had a top ten kayaker, and this year a freshman canoeist who will be the champion in two years, as well as a dozen just starting. The University of Vermont has two excellent boaters. Other schools having competitors include Northeastern, Williams, Andover, Pembroke, Mount Holyoke, Norwich, University of New Hampshire, Rhode Island, and Alfred University.

Housing problem exists

The club is currently housed in the old Tech Tailor's office. They have a problem with housing, which has become more acute with the increasing size of the club. However, with the greater popularity of the sport, this should soon be alleviated.

YELLOW CAB SERVICE
ALL CABS RADIO EQUIPPED
Dial MIT X2303

AMREC
Is interested in people with **COMPUTER PROGRAMMING** experience.
We are on the move—upwards—so why not move with us?
Call 864-3194, or MIT ext. 2924, or visit our office in the Armory at 120 Massachusetts Avenue, Cambridge
An agency of TSE, inc.

IMAGINE!
YOU MAY BE THE ONE TO ESCORT "MISS HOTEL PARADISO" ON A PUERTO RICO (Chaperoned) WEEK-END!
FLY PAN AM! STOP AT THE AMERICANA
Meet "Miss Hotel Paradiso" who's been selected to tell folks about MGM's spicy, new comedy in color "HOTEL PARADISO" starring Alec Guinness, Gina Lollobrigida, Robert Morley
WE'RE LOOKING FOR HER IDEAL DATE-MATE! ARE YOU THE ONE?
The celebrated Computerized Dating Service, "Project TACT," will decide whether YOU fly to San Juan, Puerto Rico, via luxurious Pan American Airways, to enjoy a week-end with beautiful "Miss Hotel Paradiso" at the plush Hotel Americana. Write today to Project TACT, 150 Fifth Avenue, New York, N. Y. 10017, and enclose \$5 for a questionnaire. (NOTE: If you are in a TACT area, TACT will also provide you with a list of compu-mates.) Contest ends Jan. 1, 1967.

year's sophs. In the following heavyweight competition, the favored senior heavies face strong junior and sophomore squads.

Next on the agenda, the Tech coeds will stage a fours race from the Harvard Bridge to the Pierce Boathouse, followed by the House Boat race. Barring further loss of equipment, twenty eight-man squads will compete for House Boat laurels, won last year by Kappa Sigma.

Concluding the Regatta will be the frosh race followed by the coxswains-managers competition. Lightweight races, scheduled for 1 and 1:15, will finish at the Boathouse, as will the coed race, scheduled for 1:45. House boats and frosh squads will line up at the Harvard Bridge at 2:30 and 4 for three-quarter mile runs to the old Tech Boat House.

Varsity Club blast set for Saturday

The Varsity Club will sponsor a dance Saturday for all lettermen, including those lettering in the fall season. It will be held at Delta Upsilon fraternity, 526 Beacon St., from 8 to 12 p.m. Refreshments will be served, and The Insex will provide live entertainment.

Harriers close out season; take tenth place in IC4A

In the IC4A held Monday, the Tech harriers ran into a bad day, as they finished tenth in the competition. The brightest spot of the meet was sophomore Stan Kozubek. Stan has carried on this year where Ace Sumner Brown '66 left off. He continued to do this as he finished a respectable fifth in the meet, with a 26:05 clocking over the van Cortland Park course. This is one of Stan's best efforts of the season.

Other finishers for the engineers were Pete Peckarsky '68 (61), Helge Bjaaland '67 (69), John Usher '69, Jimi Yankaskas '69, Geoff Hallock '69, and Rich Wolfson '69. Peckarsky was running comfortably in the top forty, when he developed a case of cramps.

This was enough to keep him from doing as well as he might otherwise have done.

Quarterfinals scheduled for tomorrow morning in Tech pocket billiards

By Chip Schroeder

Some very exciting matches are scheduled for the quarterfinals tomorrow in the MIT pocket billiards championship. The eight remaining players will be vying for positions in the semi-finals and eventually in the televised finals. John Weare '68 will challenge last year's champ Doug Friedman '67. Both have played well in their last matches. George Pantoulis '70, a snooker champ from Canada, will play Mark Wilson '70.

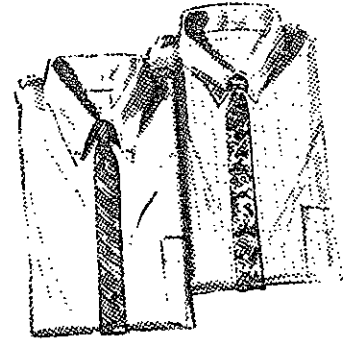
Eduardo Lima de Sa and Ray Ferrara '67 will play in what promises to be a hotly-contested match. The fourth match will be between two colorful players, Alan Greenfield '69 and Tomme Ellis '67. These two players are rated about even. The matches will be held in the games' room of the Student Center tomorrow at 9 am. A limited number of spectators will be admitted.



GO AS FAR AS YOU LIKE

WITH *Passport 360*

Know what you'll like about Passport 360 by Van Heusen? It's assured... A bit bold and breezy and strictly for the influential. This new toiletry collection of cologne, after shave and deodorant is a sure passport to where the action is!

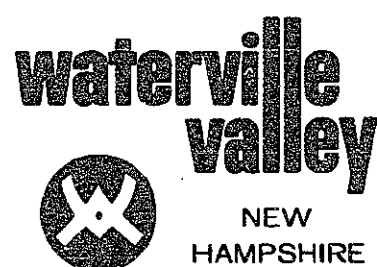


check that "417" **vanopress shirt.** A neat specimen of masculinity and permanently pressed as well! Van Heusen knows how to please a man... and a woman too!

VAN HEUSEN
younger by design

WANTED: STUDENT REP FOR NEW MAJOR SKI AREA

Must be a skier. Will act as ski area representative, handling promotional activities at school and in town, in return for free season's lift pass. Contact Ed Siegel, Waterville Co., Inc., Waterville Valley, New Hampshire 03223. Tel. (603) 726-8911.



Tech places 3rd in IC4A

Basketball opens December 1

FRIDAY, NOVEMBER 18, 1966



Photo by Owen Franken

The frosh harriers, left to right, back row: Coach Farnham, Pete McCall, John Owens, Craig Gander, Larry Petro, Dave Swope, and Larry Ludewig; front row: Eric Carling, Jim Leary, Arthur Ladrew, Horatio Daub, Ben Wilson, and Dave Rapoport.

By Stan Kask

MIT's freshman cross-country team finished its season Monday by placing third in the college division of the IC4A championships, held in New York.

Ethiopian sets mark

Sebo Mamo of Colby followed up last week's record victory in the New England championships by setting another mark this week. He covered the three mile course in 14:14. Ben Wilson, who has been MIT's top runner all season, finished second in 14:50. Mamo is the only person that Wilson has not been able to top this season. In the university division, Art Dulong of Holy Cross finished first in 14:28.

The remainder of the engineers had some of their best times of the season, as the top four Tech runners finished in the top twenty-five. John Owens finished fourteenth in 16:17. Arthur LaDrew was nineteenth in 16:25 and Larry Petro finished twenty-fifth with a time of 16:31. Eric Darling rounded out MIT's scoring by finishing forty-second.

Final team standings

1. Morgan State	71
2. Fairleigh-Dickenson	80
3. MIT	82
4. Iona	95
5. Bates	114
6. Temple	134

This has been the most successful season for the engineer freshmen in the past several years. In dual meets they were unde-

feated, 8-0. They finished second in the Greater Boston, sixth in the New England and third in the IC4A championship. Special credit is due Ben Wilson who consistently ran winning races. He set three course records and he will be a welcome addition to Tech's varsity harriers next fall.

IM Basketball

Lambda Chi trounces BTP

By Herb Finger

Lambda Chi Alpha strengthened their bid for another IM championship by crushing Beta Theta Pi 68-18. The Lambda Chis, who usually rely on excellent passing and shooting, continued to show fans just what they came to see, good basketball.

There was little question of the outcome from the opening tap. The Betas, missing two starters, were not worried about defeat but rather how much of a defeat. They were outclassed in every department.

The only surprise in the game was the fact that Lambda Chi's top scorer, Bruce Twickler '68, only cashed in for four points, well below his average. The rest of the scoring was well balanced.

By John Kopolow
With just two weeks remaining before their season opener December 1 against Trinity, MIT's varsity basketball squad has been working hard in practice with the hope of improving upon last year's fine 18-3 record. They stand to be an improved team this year as Coach Jack Berry has four of last year's starters returning and three vastly improved ball players fighting it out for the fifth starting slot. Moreover, having played 26 games in Europe over the summer has given them helpful experience in playing together as a unit.

Schedule expanded

However, whether the season's record will be much better than last year's remains to be seen, for the Tech cagers will be facing perhaps the toughest schedule in their history. Newcomers to the MIT schedule include Assumption, who went to the regional NCAA tournament last year, Ivy-Leaguer Dartmouth, Wayne State, a strong Midwest team, and Amherst.

Coach Berry will employ an

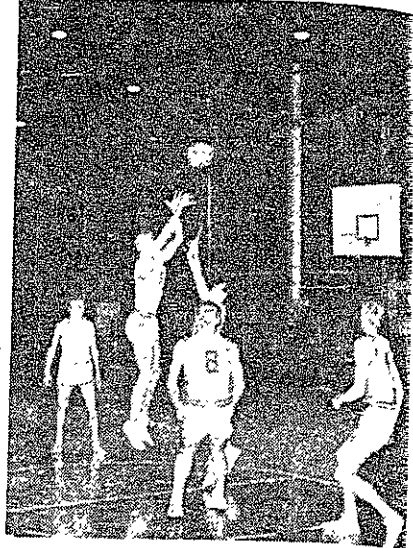
aggressive man-to-man defense, hoping to force opponents into mistakes. Fans can also expect more movement in the MIT offense as the Beavers have the personnel to score heavily.

Strength on front line

To be sure, Tech's greatest strength is in the front court. Co-captain Alex Wilson '67, who last year was named to several tournament and Eastern College Athletic Conference All-star teams, will be at one forward.

He is an excellent driver and last year led the team in scoring with 21.5 per game, also setting an all-time MIT single season scoring record. He also topped the club in rebounds, grabbing 12.8 per contest.

At the other forward will be Dave Jansson '68, an outstanding all-around ball player, who also received ECAC recognition as a sophomore. He is extremely accurate with jumpshots from outside, can hold his own underneath, and will usually be assigned to guard the top scoring threat of the opponents, whether he be a forward or guard.



Polaroid by Lew Golovin

Alex Wilson '67 takes a shot from the free-throw line in Wednesday's practice. The engineer five is sharpening up for the opener with Trinity, Dec. 1.

Jansson averaged 18.8 points and 9.9 rebounds last year.

Rounding out MIT's superb front line is the other co-captain, Bob Hardt. Before missing the final sixteen games of last season due to illness, the 6'6" senior was an excellent scorer and rebounder, getting 16.6 markers and 12.6 rebounds per game.

At one guard spot will be Bob Ferrara '67, a scrapping defensive standout. He has shown much improvement in his shooting this year, and if he can score well from outcourt he will help MIT's chances against a zone defense, which they can expect to see a great deal of this season.

Competing for the other guard position are Ray Ferrara '67 and Steve Derodeff '68, both of whom saw limited action last year, and Roy Talus '67, who didn't go out for the team last year but showed great promise as a sophomore.

Ken Follansbee '67 netted 14, Chit Chotkowski '68 and John Mumford '67, 13, and Travis Gamble, 11.

SAE wins first

SAE, back on the winning trail, topped Sig Ep Tuesday by a score of 56-46. The SAE'ors jumped out ahead by 3 points at the end of the first quarter lengthened the lead to 9 and coasted to the ten point victory.

Backcourt specialists Guille Cox '68 and Denny Matthies '68 sparked the SAE offense hitting 17 and 15 points respectively. Mike Wandzilak '67 was top man for Sig Ep with 13 points.

Pi Lambda Phi got their second victory against no defeats Sunday as they defeated Senior

House 39-35. Howie Cohen '67 and Terry May '67 were mainly responsible for the win netting 15 and 12 points.

Other scores:

- ATO "A" 41, DU 31
- Phi Delt 56, SAM 46
- Sen. Hou "C" 38, Bak "C" 24
- EC "B" 40, Phi Delt "B" 38
- Sig Ep 31, PKT 13
- DKE 48, Pi Lam 23
- Mteor, 34, C. Latino 33
- Bak "C" 33, Sen Hou "C" 23
- Chi Phi 36, ZBT "B" 24
- Sigma Nu 42, Bex 27
- DKE 38, EC "A" 27
- PMD 31, SAM "B" 18
- ATO 32, Bak "D" 27

The Benchwarmer

Athletic program growing; club sports lead expansion

By Tom Thomas

Expansion is the byword at MIT these days. The curriculum is expanding, research is expanding, and, surprisingly enough, the already-large athletic program is expanding.

With nineteen intercollegiate sports already included in the program, the Athletic Association and Athletic Director Ross Smith are looking toward the intramural and club activities. Just last year a new IM sport, water polo, was added, and several experimental programs are now in the fire.

Perhaps the most interesting sports setup in the vast MIT program, however, is club sports. A dozen clubs are actively engaging in their particular endeavors, practicing, and in many cases actively competing, with other schools. Graduate crew, cricket, cycling, grappling, gymnastics, judo, karate, rugby, graduate soccer, water polo, weight-lifting, and White Water clubs exist to varying degrees.

Expansion a problem

The biggest problem confronting the clubs is expansion. For instance, the White Water Club is trying to finance a mould to build kayaks for the club. At present some of the members own their own boats, but since they are quite expensive, most of the members do not have a boat. This of course could not help but dampen the enthusiasm of present and prospective members, but it has not kept the club from expanding. They now have

about twenty members and are allowed to practice in the pool every other Tuesday after varsity swimming practice. The major block to their expansion is space. They presently store their boats in the old Tech Tailor's Shop, but this will be closed to them after Christmas.

This space problem is common to many of the clubs at MIT. However, these and other problems have not stopped the sports enthusiasts in these dozen clubs. With the help of the Athletic Association, the clubs are prospering and growing. It seems to me that this can only be a tribute to initiative and enthusiasm of the Techmen in these activities.

Second-class postage paid at Boston, Massachusetts. This Tech is published every Tuesday and Friday during the college year. The office is in the Science Center, Room 7-211, 77 Massachusetts Avenue, Cambridge, Massachusetts 02139. Telephone: 853-2345. Postmaster: Please send address changes to MIT Student Center, Room 7-211, 77 Massachusetts Avenue, Cambridge, Massachusetts 02139. Second-class extension 2721. United States mail subscription rates: \$4.25 for one year, \$8.00 for two years.

Photo publicizes Tech sports

As part of MIT's continuing public relations effort, the photo below has appeared in several newspapers around the country. The original was taken by The Tech photographer Jeff Reynolds '69, and has been distributed by Bob Byers, Assistant Director of Public Information, to the Associated Press. Since then, it has appeared in the Chicago Daily News, Baltimore Sun, and several

other newspapers around the country.

The caption in the Daily News was somewhat unflattering to MIT athletics. It said "Without benefit of cheerleaders or marching bands, students of Massachusetts Institute of Technology engage in a game of touch football. Tom Gerrity is being upended by Terry Bennett as Gerrity reached in attempt to tag ball carrier at left. MIT has no

football team, but half the student body takes part in 20 intramural sports during the school year." The implication, of course, is that Tech doesn't have any varsity athletics.

As an additional sidelight to this, the picture will also appear in the December issue of Technology Review. The same photo and caption originally appeared in the October 11 issue of The Tech.



Photo by Jeff Reynolds

Fred Souk '67 carries the ball as Terry Bennett '70 upends Beta defenseman Tom Gerrity '63 midway through the first period of Saturday's game. Rick Young '68, Tom Chen '68 and Bob O'Donnell '67 close in on Souk for the tag. The Beta offense, however, proved to be too much as they scored six times to rack up a 38-8 score.

How They Did

Cross-Country—

MIT (V) finished ninth in the IC4A
MIT (F) finished third in the IC4A