

Activities Council Issues New Rules On Movies

Activities planning to show a film to the public and charge admission are requested by the Activities Council to report their intentions to the Council before they have rented the film, reserved facilities, or produced any publicity. The council may be contacted through the secretary in Litchfield Lounge.

This request applies to all groups, whether they are official activities or not. It is made in an attempt to lessen the difficulties of arbitrating disputes which might arise.

After disputes with LSC, several groups have had to cancel orders for films and change publicity announcements.

The LSC has announced that they will be willing to cooperate in some areas with activities which wish to show films. If differences do develop, they will necessarily have to be arbitrated by the Council.

Eta Kappa Nu Elects 19 Seniors, 27 Juniors

A total of 19 seniors and 27 juniors have been elected to Eta Kappa Nu, the national electrical engineering honorary fraternity. The pledges will be initiated on December 9.

The senior pledges are Alfonso Rueda, Richard Reifman, James Omura, William Jackson, Alan Kotok, Richard Marx, Martin Dixon, Joseph Kelly, Kenneth Koeber, Thomas Holtey.

Also Harvey Kasdan, Ralph Scallion, Richard Horvick, Roger Rowe, Alan Carlson, Paul Olmstead, Max Snodderly, Glen Wicklegren, and Marshall Greenspan.

The juniors are Lawrence Krakauer, Joel Schindall, James Evans, John Guinan, Gerald Shapiro, Lewis Wilson, William Hackett, Dennis Buss, John Meyn, Laurence Goodman, Paul Krehbiel, Richard Harris, Mario Nanette.

Also James Keenan, Robert Turnbull, Ernest Robertson, John Greata, Barton Cramer, A. Gabrielan, Richard Metzinger, Herbert Doepkin, James Nick, Charles Einolf, Garret Stone, David Coskey, Shingo Nishikawa, and Alan Ricketts.

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Magnetists Confer

Fields Are Meeting Topic

During the past week MIT was host to over 700 scientists gathered at the International Conference on High Magnetic Fields. The meeting, sponsored by the Air Force Office of Scientific Research, concentrated on the applications of superconductivity to the generation of magnetic fields.

The opening session, on Wednesday, was addressed by Dr. Knox Millsaps, executive director of the AFOSR. He presented a plaque to Dr. Killian in honor of the Institute's 100th anniversary.

On Thursday night Dr. Charles H. Townes, MIT Provost, spoke at a banquet session held at the Faculty Club. He discussed the role of research in the life of a university.

The Conference itself, which brought together the leading men in magnetism from 12 nations, heard of some very encouraging recent successes in producing high energy magnetic fields.

Until recently extremely high magnetic fields were not of practical significance. But as scientists tried to control a fusion reaction to produce power, they found that they needed strong forces to contain the hydrogen plasma they were using. Magnetic fields were the answer.

But the problems in building up a strong field are immense. The huge electric currents needed eat up too much power, since the ordinary electrical resistance of wire produces high heat when the current becomes large enough to build up a significant field.

The Conference heard of several recent successes in getting around this by using novel techniques.

The most important results were reported by Dr. Eugene Kunzler of Bell Labs. A group there applied the principles of superconductivity—that when certain metals are cooled to extremely low temperatures their electrical resistances almost disappear, to produce strong fields with the use of extremely little power. Dr. Kunzler reported that just the day before the conference's opening he had produced a field of 67,000 gauss using niobium 310, and that he expected to eventually reach 500,000 gauss by replacing the niobium with vanadium and gallium.

Here at MIT, Dr. Henry Koln reported, a record field of 186,000 gauss was generated by using water to cool the solenoid.

600 Couples Attend JP Dance



Many couples at the Ray Charles concert Saturday night found they could release their excess energy by "twisting" on the table tops.

While Ray Charles sang "Whaddid I Say?" Tech students and their dates were twisting on the tables in the Armory to bring the JP weekend to a dramatic climax.

The weekend began more quietly, with a formal dance held in the Main Ballroom of Boston's Statler-Hilton Hotel Friday night. More than 600 couples attended, and Harry Marshard's Orchestra supplied the music. Guests of honor included Chairman Killian, President Stratton and Deans Fasset and Spear.

Bob Harlin's date, Linda Miner, was chosen JP Queen for the class of '63. Dean Fasset described her as a "very attractive girl." Commenting on the prom in general he said, "It was excellent—a very, very pleasant party."

Saturday morning freshmen and sophomores provided entertainment as more than 700

joined in a mass battle for the field day honors.

In the afternoon Tech triumphed over Army, setting a new precedent in MIT soccer history. The game, played on Briggs Field, was well attended and part of the victory is attributed to the enthusiastic support students gave to the Tech team.

Following the game, Joan Baez sang before a capacity plus audience—100 students and dates were packed onto the Kresge stage—in a two part program. The first part was devoted strictly to folk music;

the second included requests from the audience and a satirical version of "Little Darling" that broke up the hysterical audience. The "Greenbriars," a hillbilly singing group, were also part of the program.

The highlight of the weekend came Saturday evening with Ray Charles and his orchestra performing in the Armory. After a few selections by the orchestra, Ray Charles took the stage, winding up with "Whaddid I Say?" before an audience twisting on the tables.

Summing up the weekend, Steve Klauflman of the JP committee said, "We were very pleased. The formal itself surprised me the most. It was so well attended. It was nice to see that the students gave the soccer team such good support."

By Jason Fane '68

For Field Day And More Junior Prom Pictures

See Pages 2, 3

WTBS Rebroadcasting Centennial Speeches On Wednesday Nights

Highlights from the Centennial celebration at MIT last April will be rebroadcast in a weekly Wednesday night 7-9 pm series on WTBS, 88.1 megacycles FM. The series began last Wednesday with the First General Assembly of the Centennial.

The Centennial programs will cover, in original sequence, the major events of the celebration—speeches, reports, panel discussions, award ceremonies, and Centennial music. The series will run for two months.

Tonight the address by Dean Rusk will be carried, followed by the keynote address by British Prime Minister Harold Macmillan. The following weeks will feature the open panels on various aspects of science.

The series will conclude with the closing Centennial Convocation.

Soccermen Top West Point 3-2; First Time Ever

By Mitch Cheftiz '68

Coming from behind in the fourth quarter, MIT defeated West Point Saturday, 3-2, to the cheers of the largest soccer crowd in history at Tech. Last Wednesday, Nov. 1 the Engineers dumped Coast Guard Academy, 3-1, to close out their New England league play.

The victory over Army was particularly significant, since MIT has never beaten the Cadets before; in a series originating in 1922, Army has won 16 while Tech has managed only two ties, 1-1 in 1958 and 1959. Last year Army won 2-0.

The wind was an important factor in the first half. West Point used it to score in the first quarter, and MIT came close a number of times in the second, but the Cadet goalkeeper tended the nets too well. The MIT defense was weak early in the game but solidified in the second quarter to stop all Army attacks.

The second half began with MIT defending against the wind again. Both teams were now playing their best soccer. Midway through the third quarter Jim Tang '63 tapped a low cross into the corner of the nets to tie the score. Just at the end of the period, when it seemed as if the Tech defense would hold Army scoreless in spite of the wind, the Cadets scored in a goal-mouth scramble to take the lead, 2-1.

In the last period the Tech offense pressed in time and again to try to even the score, and slowly the Army defense began to tire. Again Jim Tang met a low cross and left the ball in the Army nets to tie the score. MIT, roused by this and the cheering of the fans,

(Please turn to page 16)

Inscomm Puts Off Action

"Preview," Quiz Book Hit

The Technology Student Calendar and Preview came up for consideration at the Institute Committee meeting November second. No final decision will be made, however, until general student reaction to Preview can be analyzed.

The complaint was made at the meeting that competition in advertising between Preview and the other student publications still existed. Someone raised a question as to what Preview contains that the Calendar of Events issued by the Public Relations Office does not. In connection with this, Al Cameron expressed the criticism that the Student Calendar is taken directly from The Tech and Voo Doo.

Bill Gruber spoke in defense of Preview and pointed out that Preview is distributed to all MIT living groups free of charge and that distribution will soon include the faculty and NRSA. He also pointed out that Preview provides announcements of lectures, placement notices, activities of other colleges in the area, and other items not found in the Calendar of Events.

No Decision On Quiz Book

InsComm reached no decision concerning the controversial Walker Staff Quiz Book, but final hearings and the decision on the matter is expected at the next meeting. In the meantime, InsComm is continuing its study of the case. The final report will contain a list of the primary issues involved that will require future consideration by InsComm.

Pictures For Dorms

The Museum Committee is attempting to have pictures placed in the lobbies of Burton House, Baker House, Senior House, Grad House, and NRSA House. The attempt to obtain pictures for the lounges in East Campus, Talbot Lounge, Monroe Lounge, and Crafts Lounge, is also being made.

Spring Weekend Schedule Problems

Scheduling plans for Spring Weekend have run into obstacles in finding a completely free weekend for the affair. Other events such as the Massachusetts State High School Science Fair are being held on weekends otherwise suitable for Spring Weekend. The search for a suitable date will continue, however.

The recommendation will be made that the buildings destroyed in the recent fire, the buildings that housed WGBH and Tech Drug, be torn down to make room for the proposed Student Union building. Activities are asked to submit their proposed needs in the Student Union for consideration and planning.

JP Queen Crowning, Joan Baez, Highlighted Weekend



— Photo by Sanford Libman '65
Junior Prom Queen finalists and their escorts, all members of the prom committee, watch as Linda Miner, date of Bob Harlin '63, is crowned as queen.



— Photo by Scott Graham '65
Joan Baez performing Saturday afternoon in Kresge Auditorium before a packed house of Techmen and their dates.

Polaris Inertial Guidance System To Study Blood

A device used in making inertial guidance systems for Navy Polaris missiles has turned out unexpectedly to be a valuable medical research tool for studying blood and blood viscosity.

The device, an ultra-sensitive instrument for measuring very small torques, or twisting forces, was invented at Instrumentation Laboratory, where the now-operational Polaris inertial guidance system was developed.

The instrument continues to be used at the Laboratory in development of an advanced Polaris guidance system. But for the past six months, it has been made available part-time to a team of MIT and Harvard Medical School researchers studying blood.

According to Dr. Roe E. Wells of Harvard Medical School, and his collaborator, Dr. Edward W. Merrill, Associate Professor of Chemical Engineering at MIT, the Polaris-born instrument already has yielded new knowledge about blood properties.

Dr. Wells and Dr. Merrill have obtained data which, they believe, shows clearly that blood plasma — the portion of blood that remains after red cells are removed — is more viscous, or thicker, at very slow rates of flow and is less viscous as flow speeds up.

Fluids in which viscosity changes with rate of flow are said to be non-Newtonian, as contrasted to Newtonian fluids — like water — in which viscosity remains unchanged no matter how fast or slow the flow may be. This distinction is based on Sir Isaac Newton's original mathematical concept of viscosity.

Blood plasma generally has been believed to be a Newtonian fluid. Knowledge that plasma is, indeed, non-Newtonian may help explain, in part, the behavior of blood at various points along the circulatory system.

Continued work with the instrument is expected to shed even additional light on fundamentals of blood viscosity and could result in better understanding of such medical problems as circulatory disorders and cardiovascular disease.

The device was invented by Philip J. Gilinson, Jr., Chelmsford, electromagnetic coordinator at Instrumentation Laboratory, and Charles R. Dauwalter, a laboratory engineer, as a testing tool to aid in developing gyroscopes used in Polaris guidance systems. Several industrial

firms now manufacturing Polaris gyros according to MIT designs use test instruments similar to the Gilinson-Dauwalter device.

In missile work, the instrument, called a "torque-to-balance loop," is used to check

(Please turn to page 12)

Career Cues

"Hitch your wagon to a 'growth' industry — and grow with it!"

Douglas Leigh, President
Douglas Leigh, Inc.

"A growth industry is a new industry that is on the way up — moving quickly, expanding fast. When you join a company in one of the growth fields you have something extra working for you . . . you grow up with it. To find out which industry is right for you, try this: Ask someone in a good investment office to give you a list of the industries he considers 'growth industries'. Data

Processing, plastics, and electronics are a few examples. Then pick the one you have a leaning toward, and get the names of the most progressive companies in that field.

One thing I'd like to point out from my own career is . . . a growth industry may also be an old business that's on the verge of new development. Shortly after leaving college I found this situation in the Outdoor Advertising field. What my associates and I did was to employ color, action and motion to dramatically personify the product, brand or services being advertised. In doing so, we developed the modern type 'Spectaculars' that talked, blew smoke rings, soap bubbles, etc. . . signs that changed the face of Broadway and the famous Times Square area.

This is just one example. The really important thing to remember is this: When you set your sights on a career, aim for an industry that is going to grow, so you can grow with it. It's the difference between a rocket that blasts off, and one that just sits there. Good luck!"

Douglas Leigh, a Camel smoker for more than seventeen years, started his career at the University of Florida by selling space in the yearbook. Today, Doug is building the biggest spectaculars of his career in the Times Square area, and is a director of the New York World's Fair of '64-'65.

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Frosh Come From Behind To Win Field Day 55-54



— Photo by Conrad Grundelner '64
Dick Troutner, sophomore class president, and his classmates fight a losing battle with the freshmen over a giant mud puddle in the tug of war.



— Photo by Curtiss Wiler '63
By sheer weight of numbers the sophomores were defeated in the glove fight. Here six freshmen pin down two sophomores and deglove them.

The annual freshman-sophomore field day ended in victory for the freshmen as they came from behind to capture the traditional glove fight, and 35 points. The sophomores, who had scored victories in every previous event except the tug-of-war, were leading by 34 points up to this moment. With the superiority of numbers proving too much for the sophs to handle, the final score read freshmen 55, sophomores 54.

The first event in the Saturday morning contest was the chariot race. After building up an unsurmountable lead in the first lap, the sophomores crossed the finish line more than 25 yards ahead of the freshman chariot.

In the next event, the coed tug-of-war, the sophomores were again victorious. The freshmen, however, were avenged in the following event, the general tug-of-war. The moment the gun sounded the rope began to move in the favor of the freshmen, and there was no stopping it. The defeated sophomores, amid spectators' cheers, took a reluctant mud bath as the freshmen continued to pull in the rope.

The sophomores came back immediately in event X, the mystery event. Event X was a modified soccer match with 107 players on a team. While each player was allowed to pivot on one foot only, the sophomores were able to score three goals within the 10 minute time limit. The freshmen scored none.

The final and crucial event, the glove fight, began with freshmen and eggs facing



Voted the best dressed coed in the chariot race, Suelen Healy '64 urged sophomore charioteers on to victory.

sophomores without eggs. An immediate halt was called by the Beaver Key, but Dean Wadleigh ruled the eggs strictly legal. Forming a compact ring, the sophomores presented a strong defense. However, one-half of the ring broke under the hail of eggs, and within several minutes the battle was clearly for the freshmen.



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WTBS Monday Show 'InsComm Open Line' Features MIT Issues

The Public Relations Committee of InsComm is producing a new series of informative radio programs for the Tech listener — "InsComm Open Line." According to Allen Womack '63, chairman of PRC, the program is designed to keep students aware of issues involving the student government and administration, and to give students an opportunity to express his views on the air.

"InsComm Open Line" is aired over WTBS, AM and FM, every Monday evening at 8. Topics for the show have included the problems of the Activities Council, Cross-Roads Africa, Student Personnel Office, and Public Relations Office. Other programs of this nature are planned.

Monday, Nov. 13, will feature the Student Committee on Educational Policy. SCEP will hold an open meeting at 5 pm in the Bush room, and at 8 pm, will be featured discussion on "InsComm Open Line".

Size Of Brain Unrelated To IQ

The size of your brain may have less to do with your intelligence than the shape it's in.

Did you know that a man's brain weighs more than a woman's? That idiots may have larger brains than geniuses?

These are but a few of the odd facts about the most complex of all living organisms — a fantastically arranged mass of thought centers and nerve fibers made up of billions of microscopic cells.

In an average male adult the brain weighs about three pounds; in a woman, a few ounces less. The mere weight of the organ, however, isn't a reliable index of intelligence.

Baron Cuvier, a French scientist of a century ago, had a brain that weighed nearly four pounds. But his compatriot Anatole France, a 19th century novelist, had "greater insight" although his brain weighed only 2½ pounds, according to Prof. Norman J. Berrill of McGill University.

Patronize Our Advertisers

West Ford Dipoles Not Yet Found

The recent attempted orbiting of 350 million copper dipoles in a belt around the earth, an effort which Lincoln Labs assisted, has been considered harmful to the future of science by some observers. Radio telescope personnel thought it would limit the effectiveness of their instruments.

Since the copper filaments have not yet been detected, there is no way of knowing whether they will interfere with scientific observations. The dipoles, under illumination by a powerful ground transmitter, could be detected by a precisely pointed and tuned radio telescope. No direction would be interfered with continuously, for the belt would move with respect to the stars.

Observations from the ground will not be affected. The dipoles will occur in only a small portion of the sky at any one time and will increase the brightness of the darkest regions less than one per cent.

After four to eight years the dipoles will have fallen to earth. If the filaments do not do this the belt will expand until its surface density has decreased by a factor of 100 to 1000. In any case, any effects due to Project West Ford will become entirely negligible.

A government policy statement of Aug. 8, 1961 stated that no further launchings will take place until the results of this experiment, including findings of foreign scientists, are evaluated.

A report of the President's Science Advisory Committee stated, "... the United States can proceed with the Project West Ford communications without danger to science."



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- 1) Type the ad on a sheet of paper with the word order exactly as you want it to appear in THE TECH.
- 2) Count the total number of letters and spaces in the ad and divide by 30 to obtain the number of newspaper lines your ad will require.
- 3) Place the ad and 20c for each line or fraction thereof in an envelope clearly marked CLASSIFIED AD on the outside. Either bring or mail to THE TECH, MIT Walker Memorial, Cambridge 39, Mass. If the office (second floor) is not open, deposit envelope under door.

Here is a sample of the style in which classified ads will be set:

TYPEWRITER, good condition, \$50
but will haggle, ext. 000.

MANSION, 16 rooms, either for
rent or sale, call between 2 and
3 p.m., ext. 000.

The Tech

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Unsigned editorials appearing in **THE TECH** constitute the opinion of the newspaper's Board of Directors, and not that of MIT. The newspaper welcomes letters from its readers. Space permitting, such letters will be printed in whole or in part, if deemed by the editor to be of sufficient interest or benefit to the community. Brevity increases the chance of publication. Anonymous letters will not be printed. Names will be withheld upon request.

Deadlines: Advertising, noon Thursday; Entertainment, Features, Letters to the Editor, Photography, Sports, noon Sunday; News, 7 p. m. Monday.

Make-up: Editors, Sports, Entertainment, Features — Sunday, 1-4 p. m. News — Monday, 7-11 p. m.

Office Hours: Monday, 2-4, 7-11; Tuesday, 11-1; Wednesday, 12-1; Thursday, 10-12; Friday, 2-5; Sunday, 1-5.

now, governments can change and the decision to work or not to work can also be changed. A large part of the responsibility for the future of humanity is ours. Decide one way or the other, but decide with full knowledge of our involvement and our guilt if our ideas are abused.

Libraries

The MIT library system was examined in an editorial here last term; in it we discussed the basic limitations of the Hayden Library, the fact that it is noisy, overcrowded, ill-fit and generally poorly laid out. We also pointed out that the library is rapidly running out of space, that despite the fact that the Hayden is only eight years old, replacement, or massive additions will be necessary probably within five years and certainly within ten.

It was suggested that in order to make the Hayden Library more useful as it now stands, two original features of the architects plans cut for lack of funds be speedily installed. Specifically, this was to place a glass partition across the entrance to the Science Library to reduce the noise of the traffic at the desk; the other improvement being to install fluorescent lighting to increase the level of illumination to something approaching reading standards.

As in many things, we are becoming reconciled to having years go by before any action is taken. Perhaps when the need is acute in the extreme, something will be done about reconstructing the library system.

There is one other shortcoming to the library however, that could and should be remedied without a whole lot of red-tape and delay. This is the current system of reserve books. There are a number of very important and in some cases expensive books that are used as references in many courses by a great many people. If the instructor does not wish to require the purchase of the book, he will very likely have it placed on reserve, so that it can be taken out of the library overnight only. The idea is a good one in itself, and would work very well, except for one thing. It is absurd to place one copy of a much needed book on reserve when it is going to be needed from day to day by upwards of three hundred people. The odds of finding such a book on the shelf when it is most needed are virtually nil. Obviously one copy of some books is sufficient, but it is equally obvious that five copies of some other book is totally inadequate.

MIT does not now have a multiple copy library system. It should begin acquiring one in the areas of greatest use; this might cost a thousand dollars or more, but the benefits would be immediate.

National Review IV

The series of editorials we have been running concerning the weekly magazine, the *National Review*, has been for the purpose of examining one of the spokesmen of the current political groups that is rapidly gaining the appellation, the "Radical Right." The NR is member of a growing group centered around people like Senator Barry Goldwater of Arizona, and General Edwin A. Walker, that now includes the Young Americans For Freedom, Dr. Fred C. Schwartz evangelistic group, and of course, the John Birch Society.

These groups are by no means in total agreement and some operate on a higher level than others, but they all have certain points in common. They are all dedicated to something they call a "return to Conservatism," and all believe that there is a major internal menace from Communism that is not presently being combatted by the government. They believe that negotiations of any sort with the Communists are very dangerous and to be avoided if at all possible; they believe that the United States is still the most powerful nation on earth and has no need to treat with lesser nations other than from a position of military might.

We chose to discuss the *National Review* in particular, because it is one of the oldest members of the group, and gives the appearance of approaching politics on some sort of rational basis. We have tried to show the kind of audience it is directed towards and the kind of semi-religious zealotry that permeates it, and cuts down its effectiveness.

We do not, as one of our readers claims in the adjoining letters column, equate the *National Review* with Emerson, or Thomas Jefferson. Nor do we equate the magazine with conservatism in general. There is room in the world for a good journal of conservative opinion — there is much to be said for the conservative point of view—but the *National Review* is not the answer.

Letters:

Protest Voo Doo Grant

To the Editor:
 On behalf of those students, members of the MIT community, who still profess some sort of an appreciation of basic moral values, common human dignity, and gentlemanly courtesy, we should like to vigorously protest the action of the Activities Development Board, as announced in your edition of November 1, in subsidizing **Voo Doo** with an outright grant of \$1200 from funds of the Finance Board. We can well imagine what would happen if one of the religious activities on campus were to request financial assistance from an Institute sponsored fund. The great dome itself would shake with cries of "sectarianism!" or "Religious Prejudice!" milder mannered rationalists would protest on the aesthetic grounds that the individual religious group did not "serve the interests of all the students on campus." I suppose this is to say by implication that the filth and garbage in **Voo Doo** is much more in keeping with the ideals and traditions of the majority of Tech-men.

By way of passing, we note that **Voo Doo** is now considered to "hold the respect of the campus for its industry, integrity, and program," as required by the proposed constitution of the Activities Council for admittance to permanent membership—a privilege explicitly denied to "honor societies, professional groups, and religious groups."

We note also that the ADB is not taking any chances with the "integrity of **Voo Doo** when they require immediate payment of \$4500 worth of outstanding debts and require the staff to submit a balance sheet to Finance Board for every issue. We wonder, however, if the MIT community would not be just as well off to let the **Voo Doo** staff drink up and party away the grant, rather than to have them continue to perpetrate their filthy rag under the auspices of the MIT seal?

Gerald W. Leehan '64
 Robert Fiorenza '62
 John Rykowski '64

Defends Conservative Viewpoint

To the Editor:
 In view of the increasing interest in national and world affairs I have noticed on the campus, an occasional editorial

on these topics is certainly appropriate. Your editorial of October 18 concerning conservative politics, however, was very disappointing. It was the work of a political hack, as is sometimes delivered to the party faithful by political organizations. Such writing has no place in a center of learning.

If you feel from a sense of duty that your editorials must have an anti-conservative tone, fine, but let your writing show why in some specific area or areas a more liberal solution is preferred, including a fair presentation of the conservative solution and its motivation. Remember that many intelligent men have found great satisfaction in the conservative philosophy, and whether or not the conservative approach is ever proved impractical, any attempt to label the thinking of men like Emerson and Jefferson as shallow can only reflect on the writer. Your editorial was a personal insult to hundreds of students on this campus, and an insult to the intelligence of many more.

Please write more editorials on these topics, but find a writer with more understanding of the opposition, or less political fervor.

BMI Kleinhaus '61

WUS Work Discussed

To the Editor:

In a recent issue, I noticed a news item discussing the Charities Drive where it was mentioned that World University Service would be one of the recipients of MIT student support.

Since I have recently been associated with WUS in its educational work, I thought I would let your readers know through this letter how valuable it is for American students to participate in the world-wide program of support for self-help activities undertaken through the WUS national committees in the Americas, Europe, Africa and Asia.

Through the setting up of student medical facilities (Norwegian students, for example, through WUS, are providing a mobile clinic for Calcutta University's 100,000 students), co-operative student book-banks, stores, cafeterias, housing and even print-shops to mimeograph up 'text books' where there are none, and through its consultative services, WUS is the agency which makes it possible for students to help students.

I understand that literature about WUS activities will be available.

Jaswant Krishnappa '62

Kibitzer

By Elwyn R. Boriekamp '62

The finesse is by far the most common play in bridge worthy of any special name. Most average players admit that squeezes and endplays are beyond them, but few will admit that they have not mastered the technique of the finesse. The word is so popular that even novices use it frequently and often apply it even to situations of everyday life. I have been informed that in the colloquial speech of certain girls' schools, for example, the expressions "she was finessed" and "he was a losing finesse" have acquired special meanings not directly related to the fall of the cards at the bridge table. Yet in spite of all this talk, few bridge players really understand the full implications of this standard playing technique. Most think that the only alternative to the finesse is the play for the drop and, as a result, they blindly apply the general maxim: finesse for the queen if missing five or more cards in the suit, but play for the drop if missing four or less. The rule is quite correct if there is no additional information available on the hand and the suit in question constitutes the sole problem. In actual play, how-

NORTH			
♠	K 6 3		
♥	A J 7		
♦	A 9 6		
♣	A J 8 5		
WEST			
♠	10 8 7 4 2	♠	A 9 3
♥	5 4	♥	Q 10 3
♦	10 7 4	♦	K Q J 8 5 2
♣	K Q 7	♣	3
SOUTH			
♠	Q J		
♥	K 9 8 6 2		
♦	3		
♣	10 9 6 4 2		
East-West vulnerable.			
South	West	North	East
P	1♠	INT	2♠
P	P	3♥	P
4♥	All Pas		
Opening lead: ♠10			

ever, these conditions are satisfied far less often than many players believe.

A good illustration of these principles is hand number 19 from the MIT Bridge Club's November masterpoint tournament, held Nov. 4. The bidding shown above is in the Kaplan-Sheinwald system, but most North-South pairs using Goren were also able to arrive at the

(Please turn to page 5)

Kibitzer

(Continued from Page 4)

49 contract by some bidding sequence which involved a double or a bid from East.

By playing the hand correctly, South was able to make the contract against any defense by East-West. East led the ♠10, his best attack, and North won the first trick with the ♠A. South led a small ♣ from dummy to his ♣Q, and East grabbed his ♠A in order to lead the ♠K. South ruffed, banged down the ♥A and ♥K and led the ♣9, which won. Another lead of that suit was won by West's ♠K and another ♣ returned for South to ruff again. North, South and East were now each down to only one trump and East's was the highest. South had the lead, however, and was able to run his ♣ suit until West ruffed for the third and final trick for the defense.

At those tables where South made the bad mistake of immediately taking the ♥ finesse, he generally found himself unable to make the contract. East won and returned a ♠. South ruffed, drew trumps and attacked the ♣ suit. But West won and returned another ♣, which South had to ruff with his last trump. South was able

to run the rest of his suit, but East still had the ♠A and a high ♣, and there was nothing that South could do to prevent him from making both these tricks to set the contract.

Notice that as the hand was correctly played, had East ducked the first ♣ trick, South would have been permitted the luxury of the losing trump finesse. At most tables, however, this situation did not occur and on this hand, as in general, the cost of taking a losing finesse was great.

Panel Will Discuss Civil Defense Tonight

Two MIT professors will participate in a panel discussion on Civil Defense at 8:30 p.m. tonight, at the Old Cambridge Baptist Church.

William F. Schrieber, Professor of Elec. Engineering, MIT, and Robert Miller, Professor of Religion, Tufts, will be speakers in a discussion entitled "The Science and Ethics of Civil Defense." The panel will be moderated by Salvador Luria, Professor of Microbiology, MIT.

The discussion will be preceded by a replay of the WISEI documentary on Civil Defense, starting at 7:30. The meeting is sponsored by the Boston Chapter of the Society for Social Responsibility in Science.

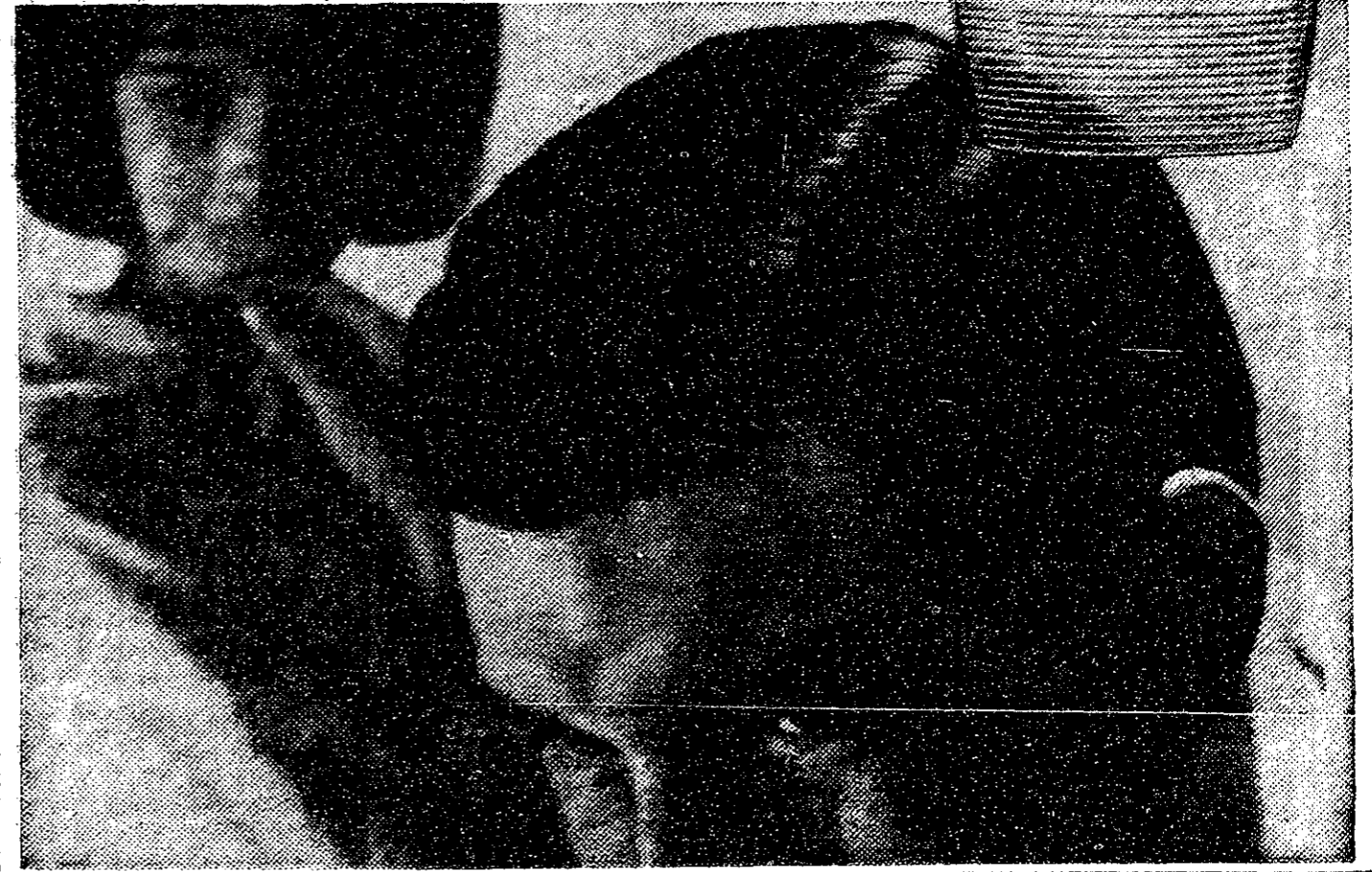
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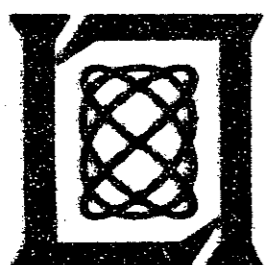
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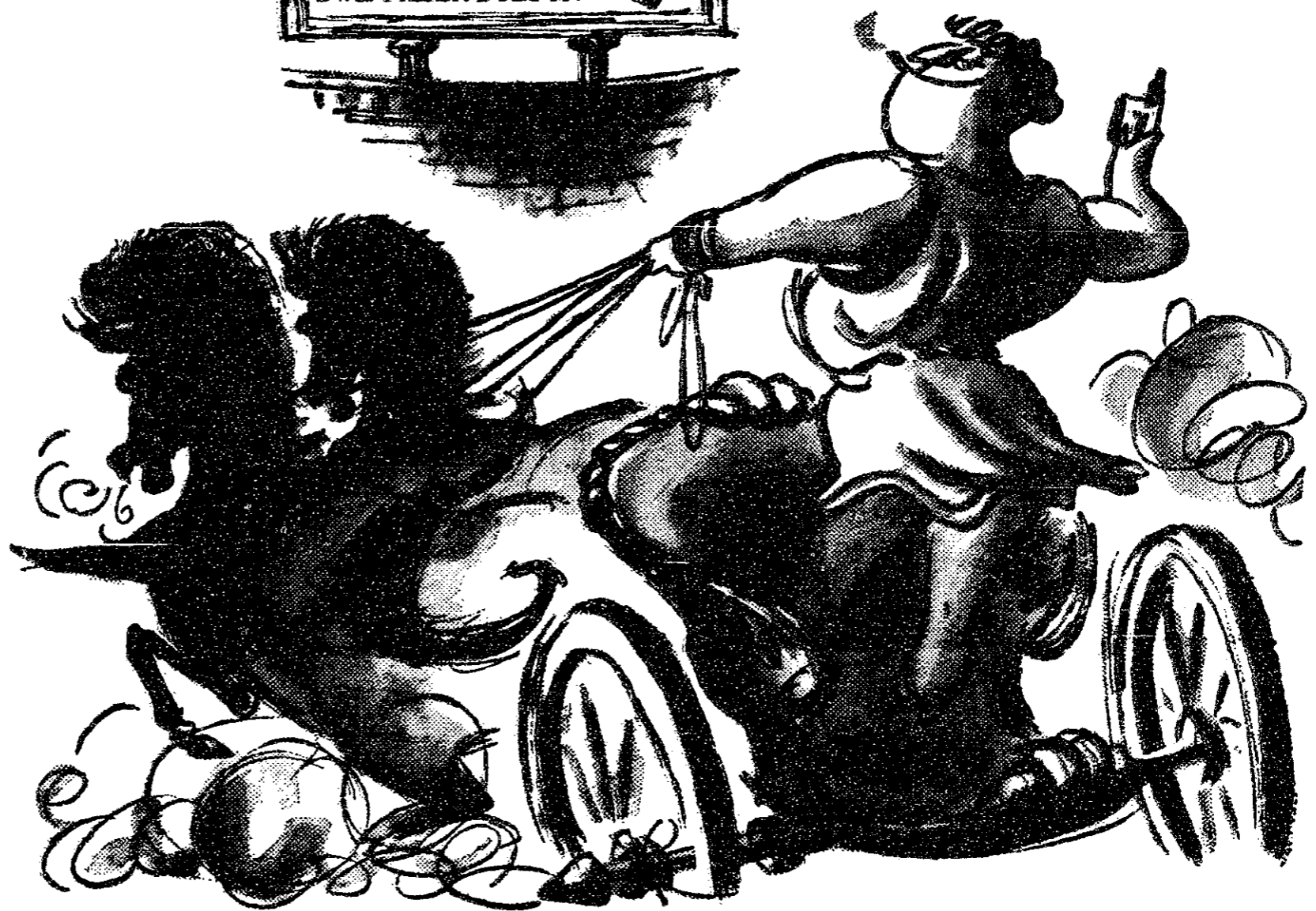
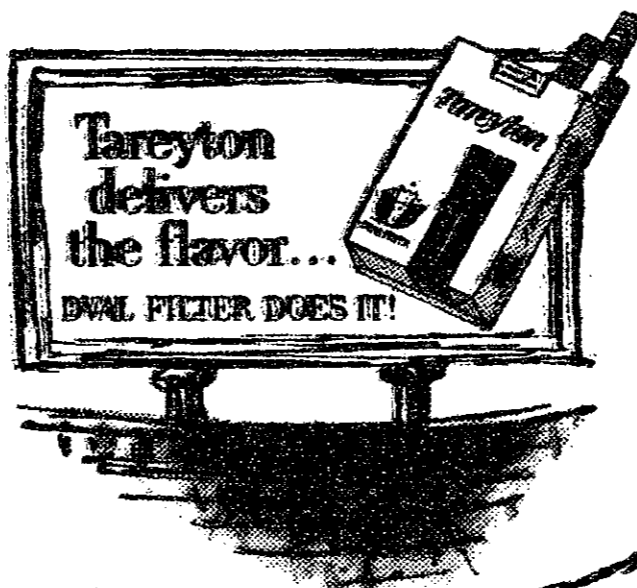
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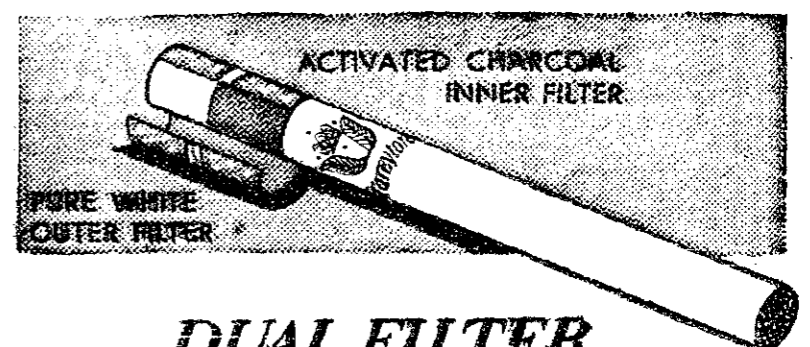
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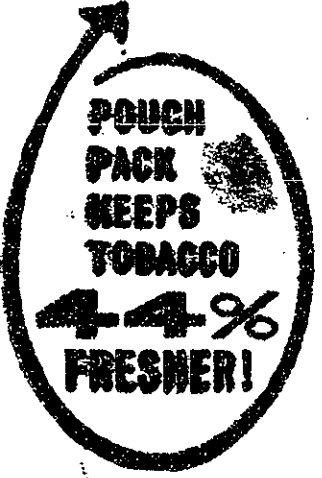


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PLACEMENT INTERVIEWS

Course numbers eligible listed in parentheses.

NOVEMBER 8

Hughes Aircraft (2, 6, 8, 16, 18); National Carbon (2, 3, 5, 6, 8, 10, 15); Scott Paper (2, 5, 6, 10); Aluminum Company of America (2, 6, 10, 15); Curtiss-Wright (1, 2, 3, 6, 16); Aeronautic (Div. of Ford Motor) (2, 3, 5, 6, 8, 10, 16, 18); Hamilton Standard (2, 6, 8, 15, 16); MIT Instrumentation Lab. (2, 6, 8, 16, 18); Portsmouth Naval Shipyard (2, 6, 8).

NOVEMBER 9

Hamilton Standard (2, 6, 8, 15, 16); Northwestern University; Ford Motor (2, 3, 5, 6, 8, 15, 16); Martin Co. (1, 2, 3, 6, 8, 10, 16, 22); National Lead (5, 10); Sanders Assoc. (2, 6, 8, 18); SKF Industries (2, 3, 6, 18); Stanford University.

NOVEMBER 10

Ford Motor (2, 3, 5, 6, 8, 15, 18); Martin Co. (1, 2, 3, 6, 8, 10, 16, 18); R. D. Brew (2, 6, 8, 18); Univ. of Chicago; Leeson Corp. (2, 5, 8, 10); Liquid Carbonic Div. (2, 10, 14, 15); Research Analysis (5, 6, 8, 10, 16); MIT Lincoln Labs (6, 8, 16, 18).

NOVEMBER 13

American Oil & Amoco Chemicals (10); Dow Corning (1, 2, 5, 6, 8, 10); The Trane Co. (1, 2, 6, 10, 15, 21); Los Alamos Scientific Lab (2, 3, 6, 8, 10, 18, 22); Union Carbide Chemicals & Union Carbide Olefins (1, 3, 5, 6, 10, 11, 15).

NOVEMBER 14

Dow Corning (1, 2, 5, 6, 8, 10); The Trane Co. (1, 2, 6, 10, 15, 21); Airborne Instruments (6); The Babcock & Wilcox Co. (2, 3, 6, 8, 10); Pittsburgh Plate Glass (1, 2, 6, 10); Sun Oil (5, 10, 15); Proctor & Gamble (1, 2, 3, 5, 6, 8, 10, 14, 15, 18, 17, 21); Warner & Swasey Co. (2, 6, 15).

NOVEMBER 15

Los Alamos Scientific Lab (2, 3, 6, 8, 10, 18, 22); Proctor & Gamble (1, 2, 3, 5, 6, 8, 10, 14, 15, 17, 18, 21); American Can Co. (2, 5, 10); Burroughs Corp. (2, 6, 8, 18); General Food (2, 5, 6, 10, 15, 20); Mallinckrodt Chemical Works (10, 15); Minneapolis-Honeywell Regulator (2, 6, 8, 18); Radio Corporation of America (2, 6, 8, 16); RCA Labs (6, 8); U. S. Rubber (2, 5, 6, 8, 10, 15); International Business Machine Corp. (2, 3, 6, 8, 5, 15, 18).

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Calendar Of Events

*Open to the public.

WEDNESDAY, NOV. 8

TECHNOLOGY DAMES.
Bake Sale.
Lobby of Building 10, 8:30 a.m.—5:30 p.m.
OPERATIONS RESEARCH CENTER.*
Seminar: "Perils in Regression." Dr. Robert L. Barringer, Arthur D. Little, Inc. Room 1-146, 2:00 p.m.
TECHNOLOGY CATHOLIC CLUB.*
Meeting.
Miller Room, 3-070, 5:00 p.m.
SEMINAR SPONSORED BY THE PROTESTANT MINISTRY.*
Seminar in New Testament Greek. Dr. Goetchius, Episcopal Theological School, 317 Memorial Drive, 7:30 p.m.
MIT HILLEL SOCIETY.*
Israeli Dancing, Admission 50c.
Walker Memorial, Room 201, 8:30 p.m.

THURSDAY, NOV. 9

DEPARTMENT OF NUCLEAR ENGINEERING.
Seminar: "Neutron Economy of Nuclear Reactors." R. Simms. "Capture Gamma-Ray Spectrum of Scandium." J. M. Neill. "Variationally 'Best' Expansion of Boltzmann Equation." G. C. Pomraning. Building NW-12, 138 Albany St., 3:00 p.m.
DEPARTMENT OF PHYSICS.*
Colloquium: "Excitons in Solid Hydrogen." Professor J. Van Kranendonk, University of Toronto. Tea in the John Picker Koller Room (26-414) at 3:30 p.m.
Room 26-100, 4:00 p.m.
DEPARTMENT OF MATHEMATICS.
BRANDEIS-HARVARD-MIT MATHEMATICS COLLOQUIUM.*
"An Implicit Function Theorem and Its Applications." Professor Jurgen Moser, New York University, Institute of Mathematical Sciences. Tea in the Common Room at 4:00 p.m.
2 Divinity Avenue, Harvard University, 4:30 p.m.
HARVARD-MIT BIOCHEMISTRY SEMINAR.*
"Biosynthesis and Metabolism of Unsaturated Fatty Acids." Dr. Konrad Bloch, Professor of Chemistry, Harvard University. Tea in Room 16-711 at 4:30 p.m.
Room 16-310, 5:00 p.m.
MIT SILVER CLUB
Dinner-Meeting.
Vannevar Bush Room, 10-105, 5:30 p.m.
WATER POLO CLUB.*
Meeting.
Alumni Pool, 6:30 p.m.
SCHOOL FOR ADVANCED STUDY.
A dinner-meeting will be held for Institute Professors, Sloan Foreign Postdoctoral Fellows and members of the Sloan Selection Committee.
Faculty Club, Room 3, 6:45 p.m.

FRIDAY, NOV. 10

DEPARTMENT OF CHEMICAL ENGINEERING, 10.991 SEMINAR.
"Fluid Flow in Packed Beds." E. I. Korchak.
Room 12-182, 3:00 p.m.
"The Effect of Gravity on Mass Transfer in the Liquid Phase." V. J. Krukonis.
Room 12-142, 4:00 p.m.
TECHNOLOGY CATHOLIC CLUB.*
Philosophy Lecture Series: "Casualty in Nature." Father William Wallace, O.P. Room 3-133, 5:00 p.m.
LECTURE SERIES COMMITTEE.
Classic film series: "Carnival in Flanders" (French, 1936), also "The Sex Life of the Polyp" with Robert Benchley and "The Fatal Glass of Beer" with W. C. Fields. Admission by subscription ticket only.
Room 10-250, 6:30 and 9:00 p.m.
GUEST ARTIST SERIES.*
Concert by William Clauson, guitarist and balladeer.
Kresge Auditorium, 8:30 p.m.

SATURDAY, NOV. 11

HOLIDAY

LECTURE SERIES COMMITTEE.*
Entertainment film series: "The Naked and the Dead." Cinemascope and Color. Admission 30c.
Room 10-250, 5:15, 7:30 and 9:45 p.m.
MIT CONCERT BAND.*
Fall Formal Concert. Admission: \$1.00. Tickets are on sale in the lobby of Building 10. Undergraduates: two free tickets are obtainable by showing registration card during week prior to the performance.
Kresge Auditorium, 8:30 p.m.

SUNDAY, NOV. 12

PROTESTANT CHRISTIAN ASSOCIATION.
Breakfast for Protestant Students.
West Dining Room, Graduate House, 10:00 a.m.
ORGAN RECITAL.*
MIT Students' Organ Recital. Admission free.
MIT Chapel, 4:00 p.m.

MONDAY, NOV. 13

DEPARTMENT OF CIVIL ENGINEERING.*
Soil Engineering Seminar: "Heave of Structures Founded on Desiccated Soils." Professor J. E. B. Jennings, University of Witwatersrand, Union of South Africa.
Room 1-132, 4:00 p.m.
APPLIED MATHEMATICS AND MECHANICS COLLOQUIUM.*
"Non-Thermal Phenomena in the Solar Atmosphere." Professor Reimar H. Lust, Visiting Professor of Mathematics, MIT.
Room 2-390, 4:00 p.m.
Tea in Room 2-290 at 3:30 p.m.
MIT HILLEL SOCIETY.
Study Group: "Judaism and Modern Science."
317 Memorial Drive, 4:00 p.m.
STUDENT COMMITTEE ON EDUCATIONAL POLICY.
Meeting. All interested students and faculty members are welcome. Cider and doughnuts will be served.
Vannevar Bush Room, 5:00 p.m.
CHORAL SOCIETY.
Rehearsal.
Kresge Auditorium, 7:30 p.m.

TUESDAY, NOV. 14

DEPARTMENT OF MECHANICAL ENGINEERING.
ENGINEERING PROJECTS LABORATORY COLLOQUIUM.*
"On the Mechanism of Dropwise Condensation." Mr. A. Umr.
Room 3-351, 12:00 noon
COMPUTATION CENTER.*
Seminar: "Localization Theorems for Characteristic Roots." Dr. Alton S. Householder, Oak Ridge National Laboratory.
Room 2-190, 3:00 p.m.
AIEE-IRE, MIT Student Branch.*
Lecture: "Radio Astronomy of the Moon and Planets." Professor Alan M. Barrett, MIT.
Room 4-231, 4:00 p.m.
DEPARTMENT OF METALLURGY.*
Colloquium: "The Electrochemical Properties of Surfaces and Fuel Cell Systems." Professor E. Yeager, Department of Chemistry, Western Reserve University, Cleveland, Ohio.
Room 6-120, 4:00 p.m.
DEPARTMENT OF NAVAL ARCHITECTURE AND MARINE ENGINEERING.*
Seminar: "An Appraisal of Novel Ship Types." (A Partial Report of the Panel on Naval Vehicles, National Academy of Sciences Study of 1960-61). Philip Mandel,

Associate Professor of Naval Architecture, MIT. Coffee in Room 5-371 at 3:30 p.m.
Room 3-370, 4:00 p.m.
TECHNOLOGY CATHOLIC CLUB.*
Theology Lectures Series: "Why the Church?" Father William Sullivan, C.S.B. Discussion at 4:30 p.m.
Room 3-133, 5:00 p.m.
MIT HILLEL SOCIETY.*
Study Group.
Morris Hall, Walker Memorial, 5:00 p.m.
DEPARTMENT OF HUMANITIES.*
Allan Siv, pianist plays the Ludus Tonantia by Paul Hindemith. Admission free.
Hayden Memorial Music Library, 5:00 p.m.
WATER POLO CLUB.*
Meeting. Alumni Pool, 6:30 p.m.
PROTESTANT CHRISTIAN ASSOCIATION.*
Study Groups.
317 Memorial Drive, 5:00 & 7:30 p.m.
MIT HILLEL SOCIETY.
Study group: "Elementary Hebrew." Room 5-231.
Study group: "Elementary Yiddish." Room 5-203.
8:00 p.m.

WEDNESDAY, NOV. 15

OPERATIONS RESEARCH CENTER.*
Seminar: "The Critical Path Method." Dr. James E. Kelley, Jr., Director of Mathematical Research, Mauchly Associates, Inc., Fort Washington, Pa.
Room 1-146, 2:00 p.m.
MIT HILLEL SOCIETY.
Study groups: "Towards a Social Philosophy."
317 Memorial Drive, 4:00 p.m.
MIT CHEMICAL SOCIETY.
Meeting: "Statistical Mechanics." Professor Irwin Oppenheim, MIT. Refreshments will be served.
Spoonford Room, 1-236, 5:00 p.m.
TECHNOLOGY CATHOLIC CLUB.*
Meeting.
Miller Room, 3-070, 5:00 p.m.
JAPAN SOCIETY OF BOSTON.*
Japanese film series: "Tokyo Boshoku" (Tokyo Twilight). Third film in a series of four modern Japanese films with English sub-titles. Tickets are on sale at the door.
Room 10-250, 7:00 & 9:15 p.m.

(Please turn to page 16)

AN UNPAID TESTIMONIAL



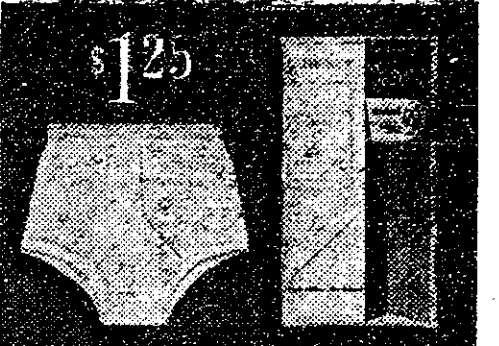
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**ON-CAMPUS INTERVIEWS
NOVEMBER 9, 10**

Please contact your College Placement Officer for appointment

**MARTIN
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Entertainment-wise

Bardot At Kenmore, Bergman At Exeter

By Warren Wiscombe '64
Ingmar Bergman has contributed two pictures, "Secrets of Women" and "The Devil's Eye," to the Brattle Theater in Harvard Square and the Exeter Theater, respectively.

The first will run this week only, and is composed of three stories told by three women, each story concerning feminine and masculine attitudes toward love and marriage.

"The Devil's Eye," called "a merry lark for adults" by the Minneapolis Post, is a comedy with Jarl Kulle and Bibi Andersson in leading roles.

Brigitte Bardot's latest shocker is "the Truth," which is supposed to make "And God Created Woman" look like a nursery school story. It is playing at the Kenmore Theater.

"The Girl With A Suitcase," a new Italian film starring Claudia Cardinale and Jacques Perrin opens Thursday at the Fenway Theater. Miss Cardinale has caused a mild sensation in some of her previous pictures, and she may be destined to follow the path that Gina Lollobrigida followed before her.

"The Great God Brown" at the Charles Playhouse will be extended through Sunday, Nov. 26 due to the volume of advance reservations and public response.

Lena Horne and her 9 o'clock revue will run until Nov. 13 at the Colonial Theater, and then for two weeks beginning Nov. 14 will be "First Love," a new play by Samuel Taylor adapted from Romain Gary's autobiography, "Promise at Dawn."

"A Thurber Carnival," consisting of sketches and stories from the works of James Thurber, the great humorist who passed on just last week, opened a month's engagement this week at the Wilbur Theater. The show features Imogene Coca and Arthur Treacher. Thurber is noted for his nonsensical humor which is at the same time innocent and delightful.

That grand old master of the piano, Arthur Rubinstein, will

Movie Schedule

ASTOR—"Splendor in the Grass," 1:00, 3:05, 5:10, 7:10, 9:15.
BEACON HILL—"Rocco and His Brothers," 1:35, 4:05, 6:35, 9:10.
BOSTON—"Search for Paradise," (Cinerama) Monday-Saturday 8:30; Sunday 7:30; Wednesday, Saturday, Sunday, Holidays 2:30 matinee.
BRATTLE—"Secrets of Women," through November 11, 3:30, 5:30, 7:30, 9:30.
CAPRI—"Breakfast at Tiffany's," 1:30, 3:30, 5:30, 7:30, 9:30.
CENTER—"A Cold Wind in August," no times available.
EXETER—"The Devil's Eye," 2:20, 4:05, 5:55, 7:30, 9:30.
FENWAY—"L'Avventura," 2:00, 4:30, 7:00, 9:30.
FINE ARTS—Through Thursday: "The Nights of Cabiria," 5:00, 7:30, 10:00; "The Bespoke Overcoat," 7:00, 9:30. Starting Friday: "The Seventh Seal" and "Three Strange Loves," no times available.
GARY—"West Side Story," Evenings, 8:30; Wednesday, Saturday, Sunday, Holiday, 2:30; Sunday 5:30.
KEITH MEMORIAL—"Backstreet," 9:30, 12:50, 3:40.
KENMORE—"The Truth," 1:00, 3:05, 5:20, 7:30, 9:40.
LOEW'S OKPHEUM—"The Devil at Four O'Clock," 9:40, 12:05, 2:30, 4:55, 7:20, 9:50.
MAYFLOWER—"Weekend With Lulu," and "Five Golden Hours," no times available.
METROPOLITAN—Through November 14: "The Mark," 1:20, 3:55, 6:35, 4:15. Starting November 15: "Cat on a Hot Tin Roof," and "Some Came Running," no times available.
PILGRIM—"Paris Blues," and "Naked Jungle," no times available.
SAXON—"King of Kings," Monday-Saturday 8:30; Sunday 2:30, 8:00; Wednesday, Saturday, Holiday 2:30.
TELEPIX—"Leda" and "Grantchester," 11:30, 1:30, 3:30, 5:30, 7:30, 9:30.
UPTOWN—"Fanny" and "Scream of Fear," no times available.

Theatre Schedule

COLONIAL—"Nine O'Clock Revue," Lena Horne's comedy song and dance show, assisted by the Delta Rhythm Boys and Don Adams, presented by Alexander H. Cohen. Until Nov. 13.
SHUBERT—"Fiorello," the smash hit Broadway play about Manhattan's peppery little mayor of the 1920's. Four weeks only, through Dec. 2.
WILBUR—"A Thurber Carnival," by James Thurber, and featuring Imogene Coca, Arthur Treacher, and King Donovan. Produced by Jerome Rosenfeld. Through Nov. 20.
CHARLES—"The Great God Brown," through Nov. 28. Produced by Frank Sgrue and Mike Murray.

appear in concert Sunday, Nov. 26 at 3:30 p.m. Rubinstein, 72, who by all rights should be retired, is perhaps the most durable pianist in the nation. He is maintaining a schedule which would tire even a man in his prime; he is performing 10 Carnegie Hall recitals this year, and he dashes to Boston and other cities for recitals often. He is one of the immortals of the musical world.

On Veterans Day, Saturday, Nov. 11 the MIT Concert Band will present "The Last Twenty"—music for concert band written since World War II, featuring the "Suite Francais," composed about the five provinces in which American soldiers fought and died in both World Wars. Tickets are free to MIT students and should be picked up before Friday night in the lobby of Building 10.

The Boston Chorus Pro Musica, one of New England's finest singing organizations, will present the Verdi "Requiem," accompanied by the Cambridge Festival Orchestra, Nov. 12 at 8:30 p.m. in Symphony Hall. This work is being presented to commemorate the 100th anniversary of Italy's unification. Tickets at Symphony Hall box-office.

Dr. Linus Pauling, Nobel Prize winner and Professor of Chemistry at California Institute of Technology, will excoriate U. S. policy in handling bomb test negotiations this Sunday evening, Nov. 12 at 8 p.m. in Jordan Hall. There is no admission fee, and the event is sponsored by the Ford Hall Forum series. Forthcoming speakers in this series include Robert Frost, Jimmy Hoffa, Ayn Rand and Max Lerner. After the lecture proper there is a question period for the audience.



Sunday Evening NOV. 12 at 8 o'clock
DR. LINUS PAULING

"The Significance of the Bomb-test Negotiations"

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Thru NOV. 11
5:30 7:30 9:30

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Limelitters Intrigue Symphony Hall Fans

By Warren Wiscombe '63
From the moment they struck up the chords of "There's a Meetin' Here Tonight" until thunderous applause brought them back for a second encore, the fabulous Limelitters were in complete and undisputed control of a standing-room-only Symphony Hall audience. Their captivating performance ranged from beautiful folk melodies with subtle harmonies like "The Whistling Gypsy", to wild and humorous parodies such as

"Gunslinger" or "Vikki Dougan." Between songs "Pops" Gottlieb, the oldest member of the trio, supplied a mixture of sly social comment and sophisticated obscenity which kept the audience roaring.

The variety of the Limelitters' material is the most notable thing about the group; their performance would probably entertain even a hardened enemy of folk music. The songs ranged through an Irish revolutionary war song; a Brazilian fisherman work song; a Russian ballad; a song in French about a young man searching for truth who is convinced by a band of abandoned monks that truth consists of wine, women, and song; the well-known "Lonesome Traveler"; a seafaring song about an abortive battle with a great white whale; and a Spanish funeral dirge.

The comedy is supplied almost entirely by Gottlieb, with the trio's other two members, Alex Hassilev and Glenn Yarbrough, occasionally cracking an impromptu joke. Typical of Gottlieb is his straight-faced imitation of an angry Indian chief: "White man kill our wom-

en, rape our buffalo." Or his lamentation that in TV westerns "there are no longer any bad cowpokes, just 'sick' ones." He has great ability to act like a lecher, and he uses this to perfection in the song "Have Some Madeira, My Dear." He acts the part of an old man who has lured a beautiful young girl to his flat, and his cackled line "Have Some Madeira, my dear," at the end of each suggestive verse drove the audience wild with laughter.

He used the same ability again in a song called "Vikki Dougan," which is dedicated to a young starlet who wears an almost completely backless dress. He led up to this song with a scholarly discussion of "cleavages," at which the audience began to groan until he burst into song about Miss Dougan and how she looked so much better "going the other way."

Gottlieb stated that the New York papers agreed that a future based on such jokes was "insecure."

In an interview after the show, Hassilev candidly admitted that the Limelitters have

been doing everything necessary to "reach the top" for the past two and a half years. They do cater to their audiences, and are the first to say so. However they feel that a recent New York Times criticism that they do nothing to elevate their audience is unjust because one must first draw the audience before one can hope to elevate them.

They try to create a favorable balance between pure folk music and comedy, and their success is attested to by the fact that they draw both folk-music lovers, and, as Hassilev put it, "people who couldn't care less about folk music, and who just come to be entertained."

As a windup to the concert, the Limelitters began a round of impromptu audience singing in which members of the audience made up verses which they volunteered, and everybody sang the chorus of "Hey Lie-dy Lie-d Lie, Hey Lie-dy Lie-dy Lo." When asked whether this audience participation was always so successful, Hassilev laughed and admitted that back in their night-club days sometimes there were drunks who thought they were particularly funny and who came up with some embarrassing gems.

Perhaps the best description of the Limelitters is one of their own song titles—"Well, It's Hard, Yes, It's Hard." It has been a hard grind up through the night clubs for them, "where, let's face it, the people do not come to see you," but now they have risen above this and are preparing to wage battle with the Kingston Trio for the top spot in folk entertainment.

Symphony Hall

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Cyrus Eaton is speaking
Thursday evening, November 16
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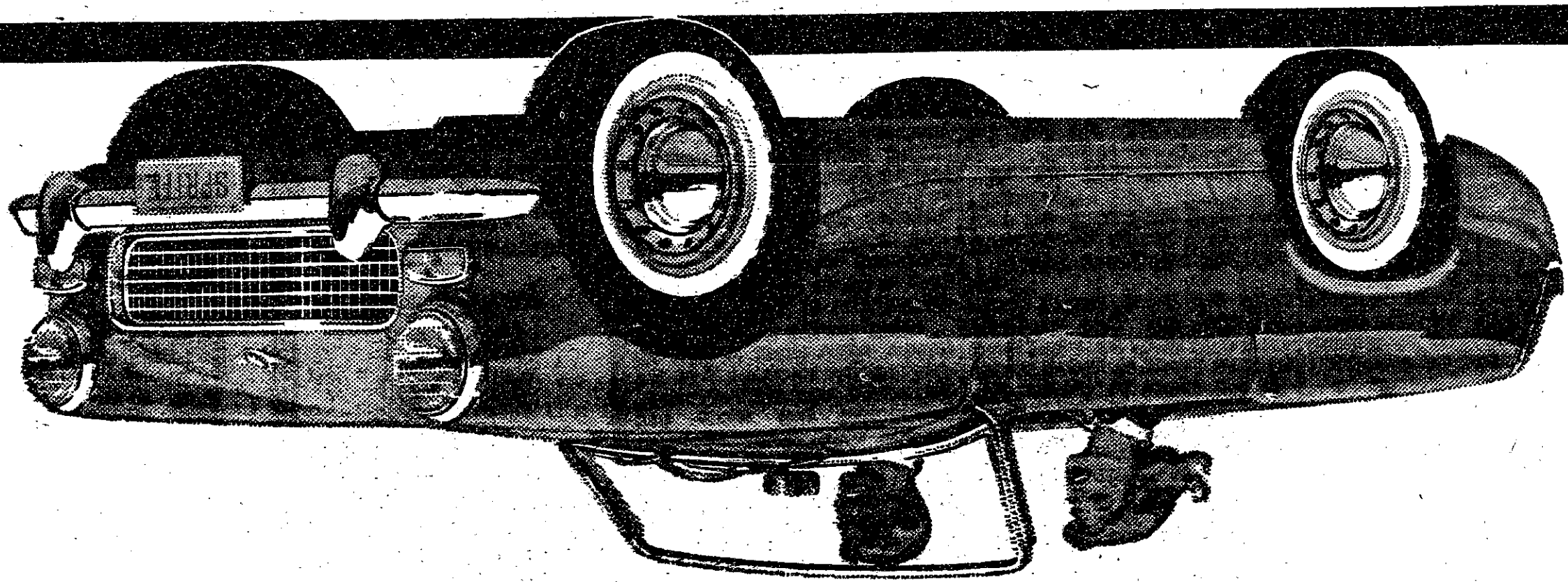


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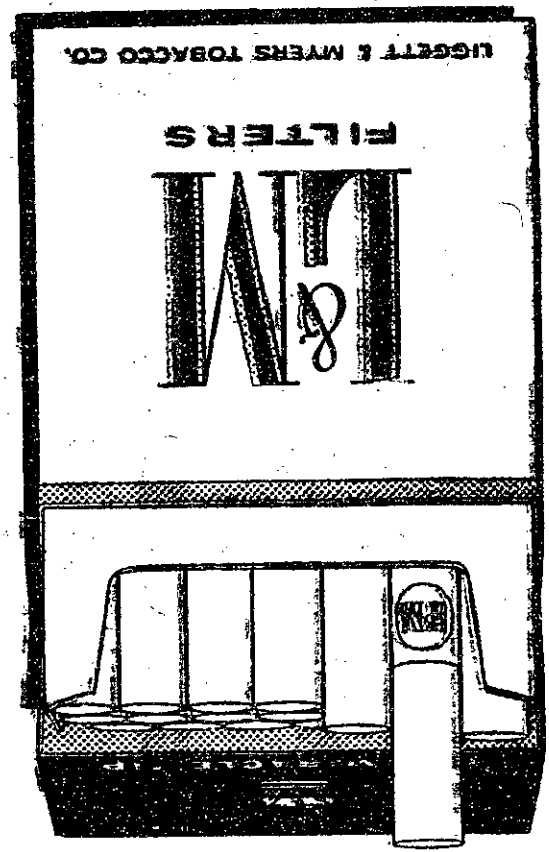


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**8 NEW ENGLAND WINNERS
8 .62 SPRITES
8 PRIZES**

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1st Talk Next Week

"Electronic Age" Is Series Topic

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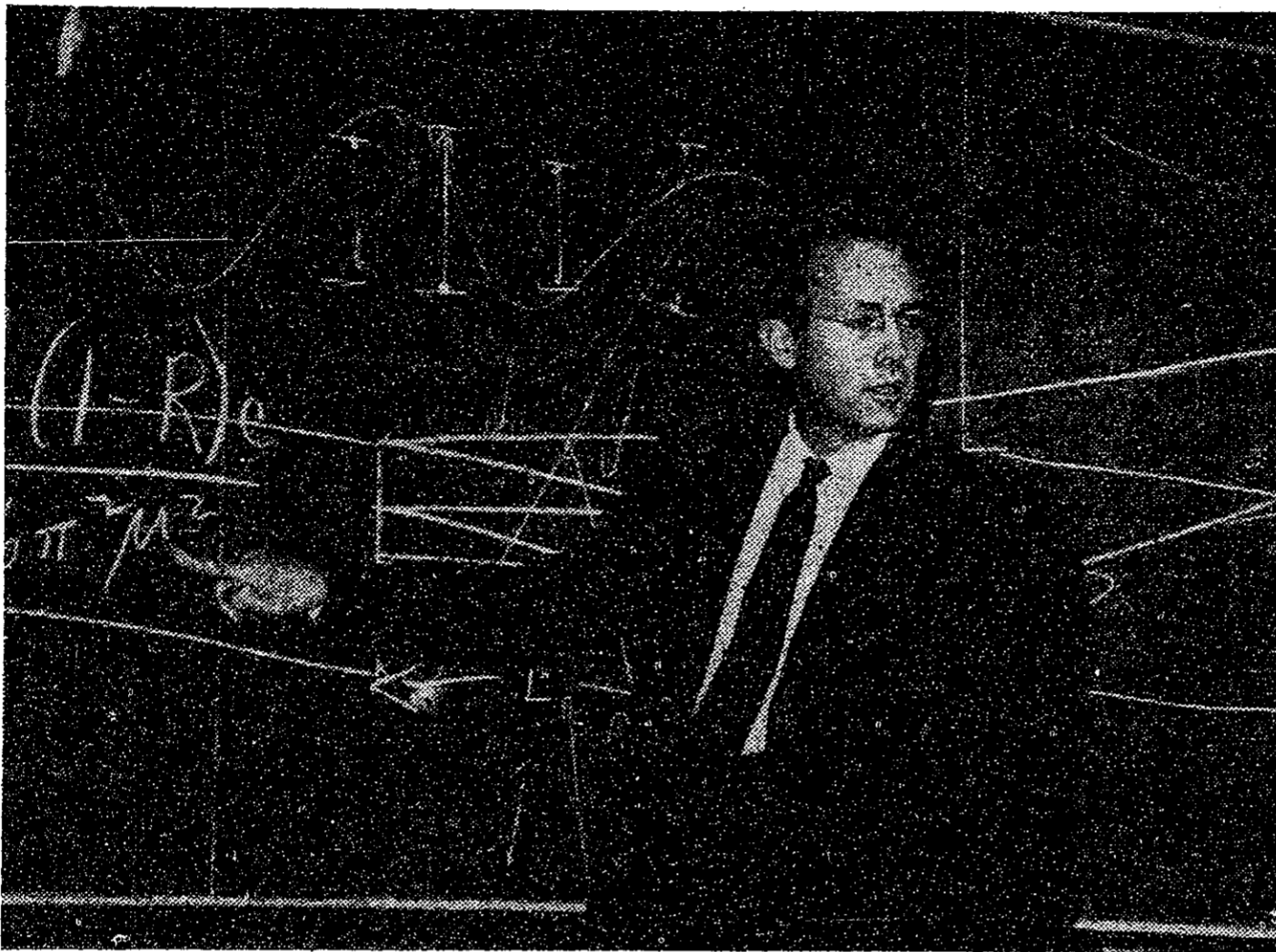
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New Provost Discusses His Specialty



MIT's provost, Dr. Charles Townes, discussing the theory of masers recently in a seminar. Dr. Townes is noted as the pioneer in maser research.

Documentation Institute Meets At MIT

How do you make the information from 30,000,000 hospital records available to doctors and researchers? How do you keep abreast of developments in the chemical treatment of cancer when there are 4,700 journals to read? How does a scientist in one country avoid repeating research already done by a scientist in another?

These were some of the questions raised recently at the 11th annual meeting of the American Documentation Institute at the Somerset Hotel in Boston and at MIT. According to Professor William Locke, director of MIT libraries and local arrangements chairman, about 1,000 information scientists, computer technologists, mathematicians, logicians, linguists, electronics and mechanical engineers, librarians, and technical and research management from hundreds of

companies, institutions and government agencies all over the country attended. They all have the common problem of documentation: the handling of information.

The American Documentation Institute is eleven years old. It was organized by a handful of specialists in industry and government research centers who were faced with the problem of what has been called "the information explosion"—how to cope with the mass of published material which had to be sifted; and how to get the pertinent data to the man at the laboratory desk and bench. The Institute promotes discussion, publications, and analysis of the philosophy and techniques of handling recorded specialized information. For the past five years the membership has been doubling every year and now totals about 900.

One of the basic concerns of documentation is language, Professor Locke explained. The major problem is to find a solution to machine indexing and abstracting so that humans will not have to read everything that must be analyzed. A second problem is the rapid evolution of terminology—the rate at which new terms are introduced and others altered or discarded.

There is also the matter of handling information in other languages so that work in Russia or Japan, for example, may be available to researchers in India or Argentina (and the rapid increase in the volume of foreign-language publications is making even a partial solution to the problem of translation by machine more and more necessary).

Another important area is that of cost. A question that industry often faces takes the form of: "Do you want to pay to repeat research that may already have been done, or do you want to pay to find out if it has already been done?"

Although the use of the electronic computer in documentation was one of the dominant themes of the conference, several discussions and papers supposed that a computer is not the answer to all the problems of information handling. In small operations it can be much cheaper and easier to use a simple manual system of edged notched cards with hand sorting. It is argued that an expensive computer set-up should be justified economically, and not automatically seized upon as the only solution to documentation.

Cy Eaton To Speak Here



Cyrus Eaton

Cyrus Eaton, multimillionaire industrialist and backer of famed Pugwash Conferences, will speak at MIT Thursday, Nov. 16 at 8 p.m. in Kresge Auditorium. The lecture is presented under the auspices of the student Lecture Series Committee, admission free and open to the general public.

Eaton, the son of a Canadian village storekeeper, made, lost, and has now nearly regained a \$100 million empire which includes control and partial ownership of the prosperous Chesapeake & Ohio Railroad; several

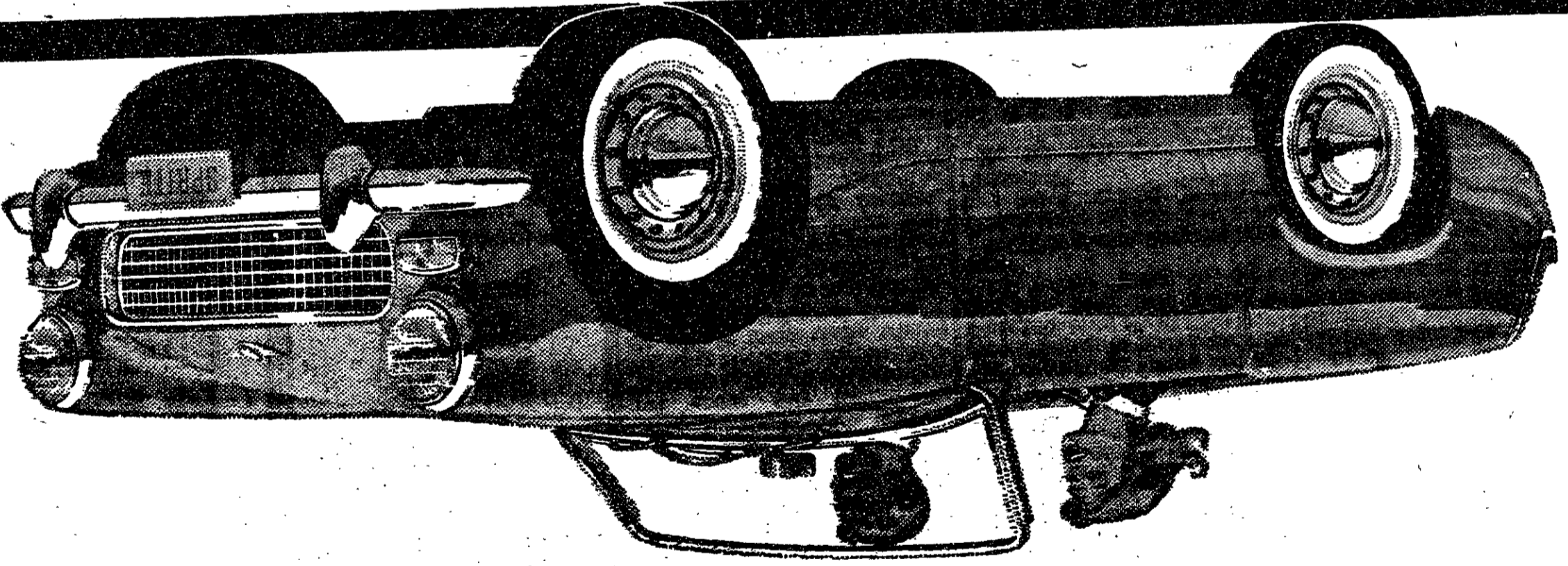
large iron ore, steel and coal firms; and a variety of utilities and manufacturing concerns.

Most recently, 78-year-old Eaton is known as a "self appointed ambassador of goodwill toward the Russians." He has toured Russia, four times spoken with Khrushchev, and is sponsor of the now famous Pugwash Conferences. These annual gatherings, some held at Eaton's Nova Scotia estate, have brought together distinguished scientists and philosophers from both East and West to discuss problems such as the monumental waste of the cold war and the growing danger of the possible misuse of nuclear energy.

Cyrus Eaton is an avowed skeptic. He has been influenced by Bertrand Russell, John Dewey and George Santayana. Eaton does not recognize the existence of God or of a divine purpose or law. His personal religion is one of basic rationalism and faith in autonomous man.

The controversial Mr. Eaton's planned topic is "The Engineer as Philosopher and Citizen." A 30 minute period, open to questions and answers following the lecture, will permit the posing of new questions as well as the clarification of earlier statements.

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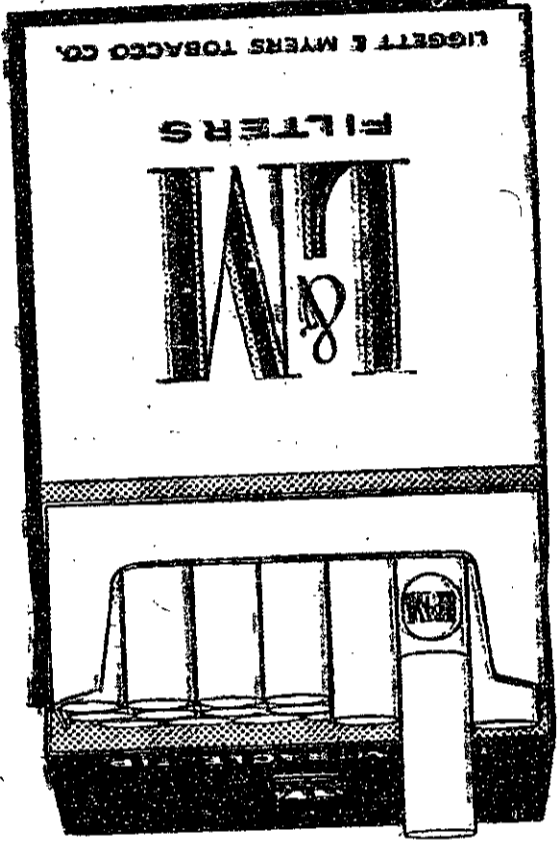


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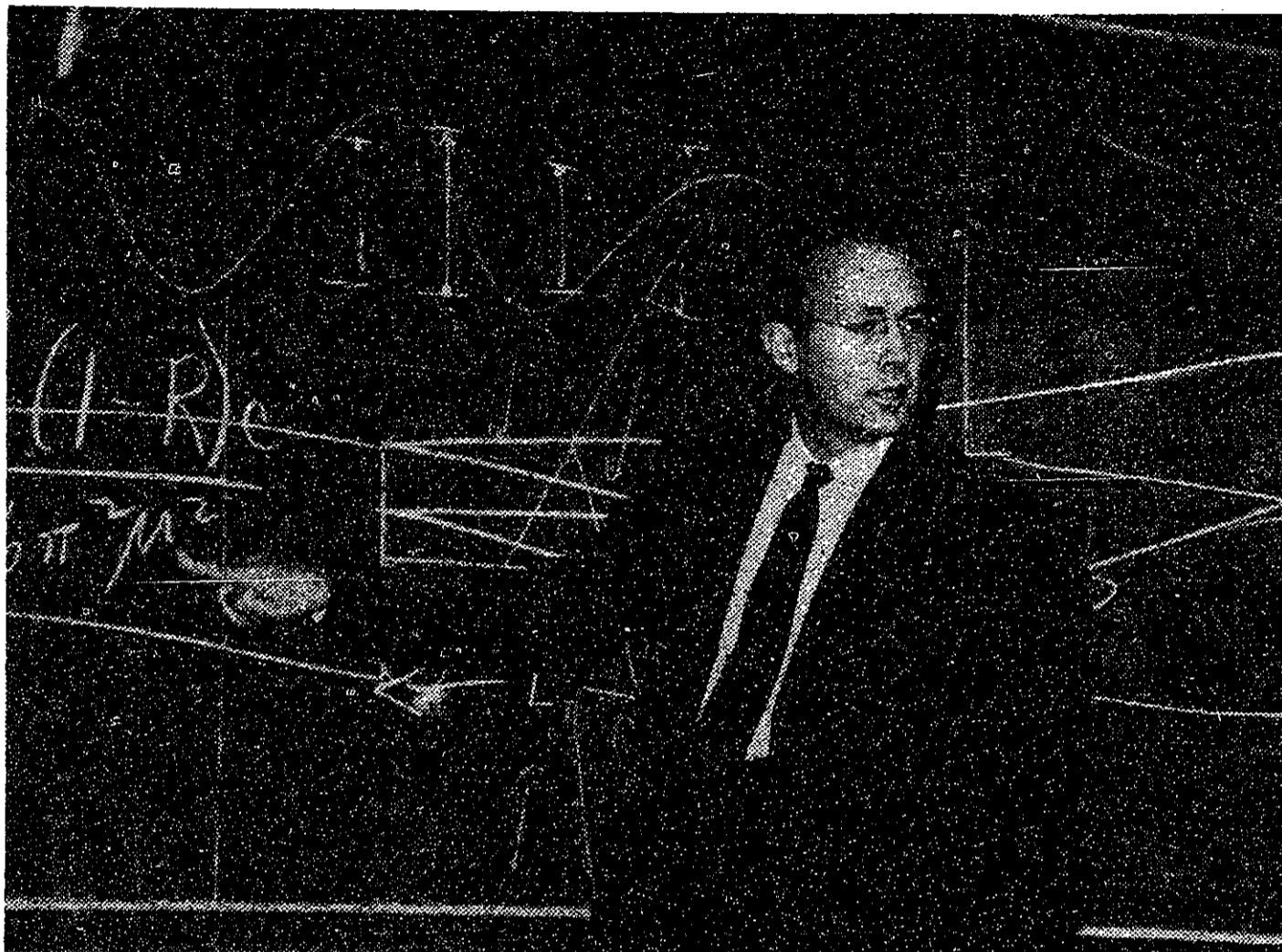
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MIT's provost, Dr. Charles Townes, discussing the theory of masers recently in a seminar. Dr. Townes is noted as the pioneer in maser research.

Documentation Institute Meets At MIT

How do you make the information from 30,000,000 hospital records available to doctors and researchers? How do you keep abreast of developments in the chemical treatment of cancer when there are 4,700 journals to read? How does a scientist in one country avoid repeating research already done by a scientist in another?

These were some of the questions raised recently at the 11th annual meeting of the American Documentation Institute at the Somerset Hotel in Boston and at MIT. According to Professor William Locke, director of MIT libraries and local arrangements chairman, about 1,000 information scientists, computer technologists, mathematicians, logicians, linguists, electronics and mechanical engineers, librarians, and technical and research management from hundreds of

Sherry Hour For IMA

The third Sherry Hour of the Industrial Management Association will be held today at 4 o'clock in the Barnard Room, Building 52. The purpose of this meeting will be to acquaint IMA members with several of the faculty of the School of Industrial Management who will be present.

companies, institutions and government agencies all over the country attended. They all have the common problem of documentation: the handling of information.

The American Documentation Institute is eleven years old. It was organized by a handful of specialists in industry and government research centers who were faced with the problem of what has been called "the information explosion"—how to cope with the mass of published material which had to be sifted; and how to get the pertinent data to the man at the laboratory desk and bench. The Institute promotes discussion, publications, and analysis of the philosophy and techniques of handling recorded specialized information. For the past five years the membership has been doubling every year and now totals about 900.

One of the basic concerns of documentation is language. Professor Locke explained. The major problem is to find a solution to machine indexing and abstracting so that humans will not have to read everything that must be analyzed. A second problem is the rapid evolution of terminology—the rate at which new terms are introduced and others altered or discarded.

There is also the matter of handling information in other languages so that work in Russia or Japan, for example, may be available to researchers in India or Argentina (and the rapid increase in the volume of foreign-language publications is making even a partial solution to the problem of translation by machine more and more necessary).

Another important area is that of cost. A question that industry often faces takes the form of: "Do you want to pay to repeat research that may already have been done, or do you want to pay to find out if

Although the use of the electronic computer in documentation was one of the dominant themes of the conference, several discussions and papers supposed that a computer is not the answer to all the problems of information handling. In small operations it can be much cheaper and easier to use a simple manual system of edged notched cards with hand sorting. It is argued that an expensive computer set-up should be justified economically, and not automatically seized upon as the only solution to documentation.

Cy Eaton To Speak Here



Cyrus Eaton

Cyrus Eaton, multimillionaire industrialist and backer of famed Pugwash Conferences, will speak at MIT Thursday, Nov. 16 at 8 p.m. in Kresge Auditorium. The lecture is presented under the auspices of the student Lecture Series Committee, admission free and open to the general public.

Eaton, the son of a Canadian village storekeeper, made, lost, and has now nearly regained a \$100 million empire which includes control and partial ownership of the

large iron ore, steel and coal firms; and a variety of utilities and manufacturing concerns.

Most recently, 78-year-old Eaton is known as a "self-appointed ambassador of goodwill toward the Russians." He has toured Russia, four times spoken with Khrushchev, and is sponsor of the now famous Pugwash Conferences. These annual gatherings, some held at Eaton's Nova Scotia estate, have brought together distinguished scientists and philosophers from both East and West to discuss problems such as the monumental waste of the cold war and the growing danger of the possible misuse of nuclear energy.

Cyrus Eaton is an avowed skeptic. He has been influenced by Bertrand Russell, John Dewey and George Santayana. Eaton does not recognize the existence of God or of a divine purpose or law. His personal religion is one of basic rationalism and faith in autonomous man.

The controversial Mr. Eaton's planned topic is "The Engineer as Philosopher and Citizen." A 30 minute period, open to questions and answers following the lecture, will permit the posing of new questions as well as the

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By Toby Zidle '63

College World

Student Suspended Over Alligator, Three-Foot Female Now For Sale

A recent sports column in *The California Tech* (Caltech) was rather optimistic about a coming football game. It predicted that Caltech would defeat its next opponent, Southern California College. The Beavers (yes, Caltech is the Beavers, too) had lost its last game 29-0 to LaVerne College.

The basis for the optimistic prediction was the score of the SCC-Azusa contest. Azusa won, 58-8. When Caltech played Azusa, Caltech lost by only 49-0. Well, hope springs eternal at Caltech, trying for its first football victory in two years.

Blitzkrieg Makes All-American

Speaking of football, it might interest you to know that finally MIT has placed one of its own players on a Small College All-American Team. Congratulations to right guard Romney Blitzkrieg for being selected by Frank Howe in his column in *The Cardinal* (Univ. of Louisville). Romney is joined on the team by such outstanding men as "Monk" Wrench and Frank Lloyd Wrong. Romney stands 8'0" tall and weighs 400 pounds. He really bolsters that line for MIT (Mass. Inst. of Tomfoolery). *The Cardinal* column has this to say about Romney: "Romney, 'The Big Oaf', Blitzkrieg is another record holder. He has been a sophomore for fourteen years."

Female For Sale

Swimming teams have also been getting into school papers lately. *The Sheaf* (Univ. of Saskatchewan) reported that a member of U of S's swim team decided to let his pet three-foot alligator have a cruise in the

pool. This caused no commotion until an inquisitive biology student noticed that the 'gator was actually a female. Then the disciplinary committee swung into action. The student was suspended for allowing a female to use the pool. The committee promised, however, to reinstate him just as soon as he got rid of the alligator. In the same issue of *The Sheaf* appeared a for-sale ad for a three-foot female alligator.

Where you can find an alligator you can usually find a fish. In fact, if you go to the University of British Columbia, you can find over 100,000 fish—all pickled in bottles. The *Ubsay* (UBC) recently carried a

story about the university's fish museum, the largest in North America.

Dr. C. C. Lindsay, curator of the museum says that scientists are coming to the museum from all over the world to study the fish and get help in the maintenance and control of their local fish populations.

Chemical Causes Transparency

Freshly caught specimens are scrubbed; classified as to weight, height, species, and region; and then are pickled in alcohol. Some of the rarer specimens have not been identified as to origin and family and still remain a mystery.

Biologists at the museum are working on new techniques for

studying the fish. The use of X-rays has made it possible for them to look into the bodies of the rarer fish without damaging their external features. Also, a special chemical is being used which causes the flesh to become transparent, aiding the biologists in the study of bone structure.

Condemned For Racy Captions

Students, as well as fish, seem to have the ability to get pickled in alcohol. The University of New Mexico Board of Regents has passed a resolution condemning the 1961 yearbook for "overemphasizing drinking bouts and for racy captions" under several pictures.

Housemothers at Iowa State University are joining the opposition, too. They have gone on record as unanimously opposed to the midnight curfews allowed to upperclass women, since it might tend to impair the "health, well-being, and grades" of the women.

Looking Back

75 Years Ago

The members of the cal course recently brewed around Prof. Sedgwick.

Lectures in Sophomoreics still come at the vident hour, when ev tired out, and cannot pay the attention th portant a lecture des there never be a char

The practice foot with Harvard was of tonous a character te in detail. In the first ball was on our end c about all the time. In 'ond half our men play and kept their wind score was increased to

Against Andover, ir half, our men had to hill, and the ball w toward our goal. In th half... Herrick made down, which was allow referee. The decis changed... after And tested interference. N of Andover was pro qualified for knocki

Wadsworth, who was a fair catch. The Herr another touchdown, w not allowed, as the r referee was Knowlton over, who no doubt tr fair, but his mistaken gave Andover the gam

The season tickets ball games are sold at price of one dollar.

50 Years Ago

The Institute has a future site, facing the River at Harvard Bridge Cambridge side. As a perhaps of educational certain streets planned the property are nam famous colleges: Vassar, cliffe, Wellesley, Princ Amherst.

An optional course given to the Junior and classes by Major Cole, will be given practical tion in the use of knots, rigging, oct. Th instruction will be given the various knots, hit splices, knowledge of very useful in all bra engineering.

The Bursar has a valuable raincoats in that he would like claimed (by the ow course).

There is an unwritten at the Insitute that he be removed in the roof Union at all times. Th more than common p and all men in the are supposed to be brought up in a man taught them politenes of their first lessons men have been lax in ner, and have been w the House Committee. that each man should in the proper spirit a himself in accordance rive, so that no future need be made upon the

25 Years Ago

It was unanimously that the throwing of and other refuse at Day activities will be owing to the "annual the egg-throwing trad

This year there will of mud ten feet long feet wide between the Day bug-of-war teams

Professor and Mrs Wiener will chaperone omore dance November

Fortune magazine MIT "science's apost try's handmaiden," said that MIT unde "in spite of their crushing scholastic plenty of leisure time to drink beer, watch games, sail on the out for activities, or

Plasma Shown to Be Of Non-Newtonian Nature

(Continued from page 2)

with extreme precision the performance of gyroscopes and gyro sub units intended for use in Polaris guidance systems. It is so sensitive to torque that it can measure the rotational force exerted by a small wheel that turns only once a day.

In medical research, the instrument is called the "GDM Viscometer" after its developers — Mr. Gilinson, Mr. Dauwalter and Dr. Merrill.

Dr. Merrill at MIT and Dr. Wells at Harvard have collaborated for the last four years in an unusual intermingling of engineering and medicine in order to study the fundamental chemical and physical properties of blood plasma and plasma containing such chemical addi-

tions as anti-coagulants. Numerous scientific papers by them on the subject have appeared in both engineering and medical literature.

Development of the torque-to-balance loop into a viscometer and experimentation thus far with the device has been carried out under a grant to MIT from the Estate of Alfred H. Caspary.

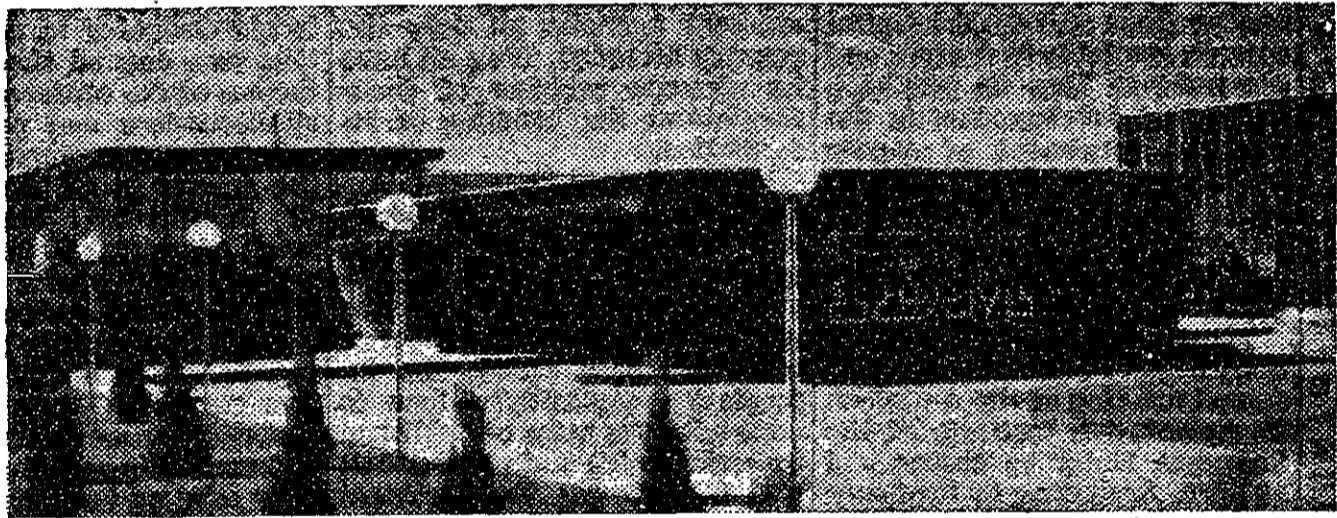
Last February, Dr. Merrill asked Professor R. H. Frazier of the MIT Department of Electrical Engineering for help in designing an instrument to measure viscosity during extremely low flow rates.

Dr. Frazier, who also serves as a consultant to Instrumentation Laboratory, suggested the Gilinson-Dauwalter torque-to-

balance loop and the merger of missile and medicine followed.

Major advantages of the device as a viscometer are that a test requires only a teaspoon of blood (four cubic centimeters) and that tests can be performed in less than a minute. Most viscometers, using different principles, require far more blood and so much time that the blood sometimes clots before a test can be completed.

As a viscometer, the device is rigged to a small cup containing fluid to be tested. A rotor, turned by a torque motor, is immersed in the blood. The particular motor used is capable of turning the rotor with an extremely slow but constant speed. The operator can change speeds to obtain viscosity readings at different flow rates.



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ON DECK
 Today, November 8
 Cross-Country (Y&F) at North-eastern with Bates and Tufts.
 Saturday, November 11
 NEISA Team Sailing championships, Charles River, 12:30 p.m.
 Sunday, November 12
 Sailing championships continued on Charles, 10:30 a.m.
 Monday, November 13
 Cross-Country (Y&F) in New Englands, Franklin Park.

On Campus with **Max Shulman**
 (Author of "I Was a Teen-age Dwarf", "The Many Loves of Dobie Gillis", etc.)

POVERTY CAN BE FUN

It is no disgrace to be poor. It is an error, but it is no disgrace. So if your purse is empty, do not skulk and brood and hide your head in shame. Stand tall. Admit your poverty. Admit it freely and frankly and all kinds of good things will happen to you. Take, for instance, the case of Blossom Sigafos.

Blossom, an impecunious freshman at an Eastern girls' college, was smart as a whip and round as a dumpling, and scarcely a day went by when she didn't get invited to a party weekend at one of the nearby men's schools. But Blossom never accepted. She did not have the rail fare; she did not have the clothes. Weekend after weekend, while her classmates went frolicking, Blossom sat alone, saved from utter despair only by her pack of Marlboros, for even an exchequer as slim as Blossom's can afford the joys of Marlboro—joys far beyond their paltry price: rich, mellow tobaccos, lovingly cured and carefully packed, and an exclusive selectraté filter. Croesus himself could not buy a better cigarette!

However, Marlboro's most passionate admirers—among whose number I am paid to count myself—would not claim that Marlboro can entirely replace love and romance, and Blossom grew steadily moroser.



"Accept these Gifts from Tom."

Then one day came a phone call from an intelligent sophomore named Tom O'Shanter at a nearby men's college. "Blossom," said Tom, "I want you to come down next week for the barley festival, and I won't take no for an answer."

"No," said Blossom.

"Foolish girl," said Tom gently. "I know why you refuse me. It is because you are poor, isn't it?"

"Yes," said Blossom.

"I will send you a railroad ticket," said Tom. "Also a hard-boiled egg in case you get hungry on the train."

"But I have nothing to wear," said Blossom.

Tom replied, "I will send you one suit of cashmere, two gowns of lace, three slacks of velvet, four shoes of calf, five socks of nylon, and a partridge in a pear tree."

"That is most kind," said Blossom, "but I fear I cannot dance and enjoy myself while back home my poor lame brother Tiny Tim lies abed."

"Send him to Mayo Brothers and put it on my tab," said Tom.

"You are terribly decent," said Blossom, "but I cannot come to your party because all the other girls at the party will be from rich, distinguished families, and my father is but a humble woodcutter."

"I will buy him Yosemite," said Tom.

"You have a great heart," said Blossom. "Hold the phone while I ask our wise and kindly old Dean of Women whether it is proper for me to accept all these gifts."

She went forthwith and asked the Dean of Women, and the Dean of Women laid her wise and kindly old hand on Blossom's cheek and said, "Child, let not false pride rob you of happiness. Accept these gifts from Tom."

"Oh, bless you, Wise and Kindly," breathed Blossom, dropping grateful tears into the Dean's reticule. "I must run and tell Tom."

"Yes, run, child," said the Dean, a smile wrinkling her wise and kindly old eyes. "And ask him has he got an older brother."

The makers of filter-tip Marlboro, who bring you this column, are also the makers of non-filter king-size Philip Morris Commanders, who also bring you this column. Have a Commander. Welcome aboard!

Defending Champs

Fencing Team Expected To Be Strong

By Howard Ellis '65

Fencing has traditionally been a highly successful, under publicized sport at Tech. For example, few people realize that MIT's swordsmen are defending champions of the New England Intercollegiate Fencing Conference, and for the past five years, have consistently been a major power in collegiate fencing circles.

Further, Fencing Coach Silvio Vitale was Italian National Intercollegiate Champion in four events and winner of five New England titles as an amateur. In addition to this, the father of one of Tech's outstanding fencers, Bob Levis '63, was seven times national champion, captain of the U. S. Olympic Team in 1936, the only American to ever win a silver medal in Olympic fencing competition, and a past member of Tech's own fencing team.

Yet despite the accomplishments of past and present, fencing has never entertained a prominent position in the MIT community. This year's team is counting on a high degree of ability, experience, and sheer determination to invalidate this fact. If Tech's swordsmen perform up to expectation, Coach Vitale will very likely send his squad to the North Atlantic Intercollegiate Fencing Conference, and possibly even to the Nationals. Vitale confidently forecasts an 8-3 season with Cornell, Columbia, and Harvard being the teams to beat. In addition he predicts Tech's retention of the New England Championship, and a possible strong bid for the North Atlantic cup. Vitale has good reason for

In New England

have the experience which should prove a great asset to the team. Dave Wakeman '62, was the winningest man on the squad last year and will be counted on for similar performances this year. And Bob Levis, a Junior with tremendous potential and an eye on the Nationals, hopefully will follow in the footsteps of his father.

Three juniors will lead the team in epee competition; they are Steve Miller, Dave Junker, and Charles Wende.

In addition, such sophomores as Art Best, Ralph Zimmerman, and Victor Frick may soon break into the starting nine.

It is important to note that of the 40 men on the squad, only two had fencing experience before coming to MIT. In consequence, victories are the direct result of hard work. Each man puts in a minimum of three to four hours practice a week. These practices are coordinated by Coach Vitale and varsity manager Robert Felix.

How They Did

- Soccer**
MIT 3, Army 2
MIT 3, Coast Guard 1
- Cross-Country**
Weslayan 21, MIT 39
Weslayan 16, MIT 46 (F)
- Sailing**
MIT fifth in Schell Trophy Regatta

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Wesleyan Dumps Harriers, 21-39

Although the MIT Varsity Cross Country team lost to Wesleyan University 21-39 last Saturday, there was a bright spot in the defeat. Mike Robson '64 ran second with an excellent time of 20:40, which is in the top 20 times on the Franklin Park Course this fall.

The race was won by McKinnon of Wesleyan in 20:23. Running very well was Tom Goddard '63 who finished fifth with his best time of the year, 21:24. The race was run on a beautiful good times.

Also running well for MIT were Roger Hinrichs, Steve Banks, Chuck Sigwart, and Steve Dahl. They finished ninth, eleventh, twelfth, and thirteenth, respectively.

Today, November 8, both Varsity and Freshmen run at Franklin Park against Bates and Northeastern.

The first ten finishers in the MIT-Wesleyan meet were McKinnon (W) 20:23, Robson (MIT) 20:40, Davis (W) 21:18, Buddington (W) 21:21, Goddard (MIT) 21:24, Brown (W) 21:31, Russell (W) 21:39, Westergren (W) 21:46, Hinrichs (MIT) 21:48, Schrader (W) 21:58. Other MIT finishers were Banks 22:01, Sigwart 22:11, Dahl 22:19, Feiner 22:47, Colfen 23:16, and Dressler 23:24.

A previously unbeaten Wesleyan freshman squad remained that way by beating the MIT Frosh Cross Country squad Saturday 16-46.

Wesleyan, a school where track is the most emphasized sport, bolstered their tradition by aking nine of the first ten places. Running very well for

MIT, however, was Roger Butler. He put in his usual good effort and finished fourth, with the best time of his four meets at Franklin Park this year, 15:04.

Running well for MIT but back a little farther were Mike Hester and Dave Kuperstein who finished tenth and eleventh with times of 15:52 and 15:54, respectively.

The first eleven finishers in the Frosh MIT-Wesleyan meet were Wilson (W) 14:44, Hargers (W) 14:47, Danforth (W) 15:00, Butler (MIT) 15:04, Rudd (W) 15:14, Overton (W) 15:21, Lasson (W) 15:27, Meyers (W) 15:28, George (W) 15:51, Hester (MIT) 15:51, and Kuperstein (MIT) 15:54.

Other MIT finishers were McMillin 16:39, Purres 17:04, Iarrobino 17:04, Shaw 17:22, and Helgeby 18:45.

The greatest increase in camping at State parks in New Hampshire in 1960 occurred at Lafayette Campground in Franconia Notch in the White Mountains. Camper days rose from 28,133 to 32,313 for 1960.

Icemen Look Forward To Tough Season

MIT's spirited and experienced hockey team, led by Captain John Rupert '62, is looking forward to a challenging but successful season.

Last year the team posted a winning 8-6 season, and Coach Ben Martin feels that this year's varsity will prove equally successful playing a more difficult schedule. Most of the squad is made up of returning double-lettermen, making it the most experienced team Tech has had in years.

Seniors include Tim O'Brien, back in the goal again after turning in several outstanding performances last year; captain and center Rupert, and wings Steve Levy and Fran Berlandi; a defense corps of Doug McMillan, Bojey Salmon, Tom Sheahan and John Rollwagon; and veteran goalie Ike Shanfield.

Back together again after a good showing last year will be the junior line of Mike Denny, center, Tony Weikel and Billy Vachon, wings; juniors Jim Holcroft and Ted Cohn will see action at defense and center, respectively.

The team lost three good men

in the graduation of Eric Selba, Frank Schleinitz and Bill Seaton, but the added experience of those returning should compensate for the loss. Because of last year's poor freshman showing, only limited aid is expected from the class of '64. Mike Monsler showed good potential last year, but the situation is otherwise dim.

As in past years, stiff opposition will be supplied by Amherst, Bowdoin, Colgate and New Hampshire. Last year MIT defeated Amherst, but lost to Bowdoin and Colgate. The toughest game on the schedule this year could be with a new opponent, the Boston College JV team.

Boston College is one of the top hockey powers in the East, and many players on the JV team at BC could play on varsity teams at most other schools. MIT is taking a step upward in scheduling a top power like Boston College.

The opening game will be Wednesday, Dec. 6 against University of Massachusetts, which defeated Tech twice last year by narrow margins.

Varsity practice started Thursday, Nov. 2 at Harvard;

the freshmen will start practicing as soon as the ice. MIT's outdoor rink freezes usually about Nov. 20.

In the past, MIT has been a disadvantage to most of opponents, due to the lack of accessible indoor skating facilities. Unpredictable Boston weather often leaves the team with no practice prior to important games; the success of the season can depend on the vagaries of the weather.

In recent years, MIT's hockey fortunes have improved immensely. Prior to 1958-59 the team had been on a four year 47-game losing streak; the year they tied one and won one. In 1959-60 the team won the lost nine; last year they posted their first winning season, 20 years. As a result, spirit high this year, and the team should prove a true credit to MIT athletics.

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Sailors Fifth In Schell Trophy Race

Last weekend MIT's varsity sailing team took fifth place in the annual Schell Trophy Regatta on the Charles River. This coming weekend the Engineers will compete in the New England team racing championship, once again on the Charles.

Harvard took first place in the Schell trophy race, which was won by MIT last year. This trophy honors Professor Erwin H. Schell, retired head of MIT's Business Department, who conceived Tech's undergraduate sailing program. In 21 sailings since 1941, MIT's nine wins leads all rivals in victories. Harvard's four wins give them a long term second.

Skippering the MIT boats were Ken Klare '62 and Mike Lifschitz '63 who turned in good performances in a field of 12 top flight teams. The Schell

trophy race qualifies two teams for the Middle Atlantic Invitational Regatta, Nov. 18-19.

The MIT Nautical Assn. will be host to Harvard, Boston University and the Coast Guard in the championship meet this weekend; the winner receives the Leonard M. Fowle Trophy. The four teams qualified two weeks ago at the Coast Guard Academy; in the first round Saturday, MIT faces Coast Guard. The winner meets the victor in the Harvard-BU duel. This final race starts Sunday at 9:30 a.m.

Last year MIT and Coast Guard tied for first place. All three competitors have won more meets than Tech this year but the Engineers are relying on greater depth and good teamwork to put them on top.

9.01

Introduction To Sports

Swimming

By Jay Salmon '63

Swimming is similar in many ways to track, its basic objective being to get from one place to another in the shortest possible time while using a variety of prescribed techniques. Each team enters two men in each of the various events.

A dual meet consists of eleven events which are scored on a 5-3-1 basis, while in championship competition it is 7-5-3-2-1 scoring. The program will read something like this: 400 yard medley relay, 220 yard freestyle, 50 yard freestyle, 100 yard butterfly, the diving competition, 200 yard individual medley, 100 yard freestyle, 200 yard backstroke, 440 yard freestyle, 200 yard breaststroke, and the 400 yard freestyle relay.

Obviously, there are several different strokes; the backstroke, breaststroke, butterfly and the crawl (typically all freestyle events) are swum with the crawl. The two medley events (400 yard relay and 200 yard individual) are swum with the four strokes alternated, 50

scored on a particular dive. Divers do six dives in a meet, a required one (the easiest dive in each of the five groups is placed in a hat and one drawn to determine the required one) and one dive from each of the five groups. The groups are the forward spinning, like the jackknife; the backward spinning, like the back somersault; the reverse spinning, like the half gainer; the inward spinning, like the back jackknife and the twisting which is any other dive with a twist.

To give the reader some idea of what constitutes good performance, below are shown the MIT varsity records.

1. 400 yard medley relay 4:04
2. 220 yard freestyle 2:14.9
3. 50 yard freestyle :23.7
4. 100 yard butterfly :58.8
5. 200 yard individual medley 2:24.9
6. 100 yard freestyle :54
7. 200 yard backstroke 2:17.9
8. 440 yard freestyle 4:50.8
9. 200 yard breaststroke 2:29.1
10. 400 yard freestyle relay 3:36.8.

yards of each in the individual and four men each swimming 100 yards of one stroke in the relay.

All the races except the backstroke are started by diving from a small elevated platform into the water. The swimmer here strives to dive out as far as possible and glides until he slows down to his swimming speed at which point he starts stroking. The backstroke is started in the water by pushing off from the wall. MIT's pool is 25 yards long and at the end of a lap the swimmer does a flip turn and pushes off the wall to start the next lap.

Swimming is not a natural human activity and as such requires a basic understanding of what you are trying to do. Coaches stress good mechanics in swimming, such as using the strongest muscles to stroke with. Understandably, conditioning plays a major part in this as in most sports. Swimming utilizes many muscles not much used in ordinary life, this requires that most conditioning be done by actual swimming. Techniques of weight training are also coming increasingly into vogue.

Diving, although a part of the meet, is a distinct phase of the sport. Most diving at MIT is done from the one-meter board although there is some three-meter competition as well. In the actual competition three judges rate the dives on a 1 to 10 scale, which, multiplied by the degree of difficulty (difficulty is rated by the NCAA in a standard table) gives the points

Navy Seeks Students Wanting Commissions

A team of Naval Officers will visit the campus tomorrow to discuss with interested students the opportunities available to them as commissioned officers in the United States Navy.

Information and literature on the programs in aviation, intelligence, public relations, supply, line, and the medical services, will be among that available.

Students wishing appointments or further information should contact the Officer Programs Officer, U. S. Navy Recruiting Station, 560 Atlantic Avenue, Boston.

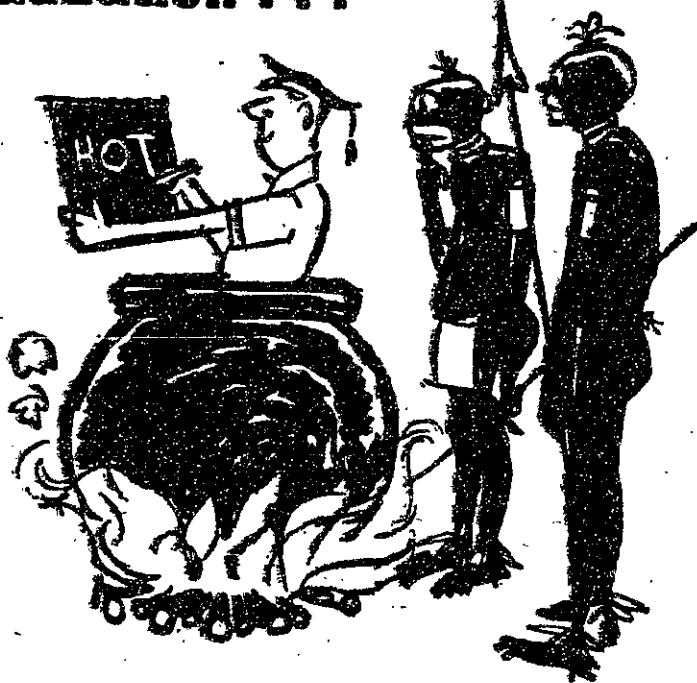
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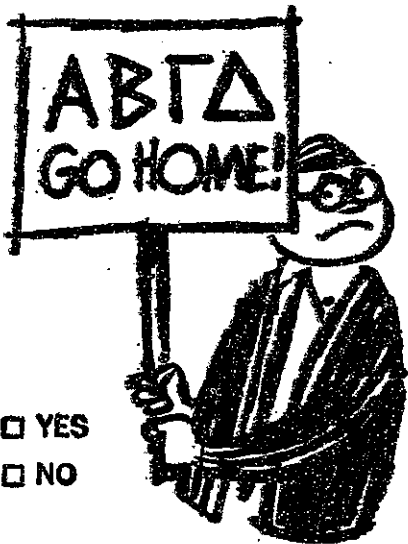


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Soccer Season Ends In Triumph

(Continued from Page 1) pressed harder, and finally Bob Mehrabian '64 took a lead pass just beyond midfield and with a perfect low kick scored the winning goal.

Wednesday's 3-1 victory over Coast Guard enabled MIT to finish the league season with the fine record of six wins, one loss, one tie. The game was difficult for the Techmen, not because of the Cadets' skill with the ball but because of their willingness to play the man.

Personal fouls of the worst kind were frequent.

Though MIT controlled the ball in the first half, both teams remained scoreless. Early in the third quarter Coast Guard squeezed in a goal. Other than this the Tech defense held well, leaving Coast Guard very few scoring chances. With seven minutes to play, Bob Mehrabian headed in his 13th goal of the season to even the score, and the game went into overtime.

The overtime was completely controlled by MIT, and Coast Guard, battered by their own play, could not resist long. Jim Tank and Cord Ohlenbusch '62 both scored to make the final score 3-1.

With the Army victory, MIT completed its finest soccer season of recent years. Capt. Dirk Berghager '62 led a brilliant team effort that resulted in seven wins, one tie and two losses. The season began by upsetting Amherst and Trinity,

easily defeating WPI and Tufts, and then playing Middlebury to a tie in Vermont. The trip to Air Force met with defeat but, returning home, MIT smashed BU, and then lost its only league game of the season at Springfield. The Coast Guard and Army victories completed the season.

The games sparked with the colorful play of Bob Mehrabian, who leads the league with 13 goals, and the fine offensive support of Jim Tang and Cord

Ohlenbusch. The defense worked well as a solid unit, but perhaps more important than anything was the fine coaching of Charlie Batterman who made an excellent team from a bunch of good players.

Major-Minor, Split

ATO, Burton, Grad, Old Guys Lead IM Basketball

By Warren Anderson '65
Results of first round play in the Major division of Intramural basketball indicate a strong battle for the championship, with several teams making particularly impressive showings.

In the American League, Brue Anderson and Bill Goetz led the Alpha Tau Omega "A" team to a 44-27 win over the Senior House "A" team. ATO's strongest competition may well come from the winner of Friday night's game between Sigma Alpha Mu and the Burton House "A" team. Both teams looked impressive in their first games.

Don Kunze and Bill Brehm played fine ball in leading the Burton House team to a 45-36 victory over the Graduate Management Society; Sigma Alpha Mu beat the Graduate House "B" team handily 50-23 behind the fine play of Ronnie Sachs

and Art Saraberg. The remaining game in the American League saw Lambda Chi Alpha defeating Pi Lambda Phi in a tight game, 21-18.

In the National League, The Old Guys and the Graduate House "A" team look like powers. The Old Guys defeated Beta Theta Pi by a score of 60-6 with Carl Swanson and Sam Wilensky playing good ball, while Grad house defeated Sigma Chi by a score of 68-23; Jerry Galvin and John Schmidt turned in good games for Grad house in the victory.

The Theta Chi "A" team also looked good in defeating The Gross Nationals by a score of 44-31, with Chester Riley and Bill Jessiman providing the punch. In the remaining game in the National League, Phi Delta Theta defeated Sigma Alpha Epsilon, 22-17.

The first Friday night games, another new innovation in the intramural basketball program, will be played this week. The teams playing on Friday night are Major League teams that have specifically requested such a schedule in order to get a larger turnout or to make the games a date event.

Turning to the AAA Division, in the International League Phi Gamma Delta defeated the Burton House "B" squad, 40-26. In the Pacific Coast League, Alpha Epsilon Pi "A"

defeated Delta Upsilon 37-35 while Phi Kappa Theta beat Phi Kappa Sigma, 49-31.

In the A Division, Eastern League, Bemis 2nd beat Bemis 4th 2-0; Bemis 5th lost to Hayden 1st 29-23, and the Burton House "C" team beat Hayden 2nd 40-21. In the Southern League, Phi Mu Delta defeated Chi Phi 44-26, Theta Delta Chi beat Kappa Sigma 37-28, and the Alpha Epsilon Pi "B" team beat the Theta Chi "B" team 13-10.

In the Western League the Grad House "C" team defeated the Chinese Student Club 37-27, the Burton House Dining Staff beat the Net Nationals 26-17, and Walker Dining Staff decided the Non-Resident Student Association team 30-19. Following is a summary of the scores:

Rugby Club Raps Harvard 9 To 0; First Major Win

MIT's rugby team scored its first victory in four outings Saturday as it shut out Harvard 9-0. Larry Demick '63 and Dave Ritter '63 led the scoring with three points apiece. Next Saturday the rugby team journeys to New York to take on the Manhattan Rugby Club.

Operating Smoothly

MAJOR DIVISION
American League
ATO "A" 44—Senior House "A" 27
SAM 50—Graduate House "B" 23
LXA 21—Pi Lambda Phi 18
Burton "A" 45—Grad. Manage. 36
National League
Phi Delta 22—SAE 17
Old Guys 60—Beta Theta Pi 6
Graduate "A" 68—Sigma Chi 23
Theta Chi "A" 44—Gross Nat's 31
AAA DIVISION
International League
Phijs 40—Burton "B" 26
Pacific Coast League
AEPI "A" 37—DU 36
Phi Kappa Theta 49—
Phi Sigma Kappa 34

A DIVISION
Eastern League
Bemis 2nd 2—Bemis 4th 0 (forfeit)
Hayden 1st 29—Bemis 5th 23
Burton "C" 40—Hayden 2nd 21
Southern League
Phi Mu Delta 44—Chi Phi 26
Theta Delta Chi 37—Kappa Sigma 27
AEPI "B" 13—Theta Chi "B" 10
Western League
Graduate "C" 37—Chinese Club 27
Burton Dining 26—Net Nat's 17
Walker Dining 30—NRS 19

Hockey, Track Coaches Ask Fresh To Turn Out

Today at 5:00, all freshmen interested in playing intercollegiate hockey should be at the duPont Center Conference Room. Freshman Coach Bob Frink hopes to meet all the players informally at that time and organize a suitable practice schedule for the season.

As the crosscountry track season draws to a close, track Coach Art Farnham announces an organizational meeting for winter track, to be held in Rockwell Cage on Friday, Nov. 10 at 5:15 p.m.

DSR Staffer Wins In Boston Fencing

Gus Witt of the MIT research staff took first place in the New England Amateur Fencers League of America Class C foil tournament at Brandeis Oct. 29. For Witt, national ranking sabre fencer, this was his first foil competition but he had little difficulty in turning back all contenders in the finals, having lost only one bout in the qualifying round, to Sherman Karp '60.

Uldis Kalktins of the Latvian Fencing Club and Karp of the MIT club tied for second with three victories and two defeats each. Kalktins placed second with fewer touches against him than Karp.

Calendar of Events

(Continued from page 6)

SEMINAR SPONSORED BY THE PROTESTANT MINISTRY. Seminar in New Testament Greek. Dr. Goetchius, Episcopal Theological School, 317 Memorial Drive, 7:30 p.m.
MIT HILLEL SOCIETY. Israeli Dancing, Admission 50c. Walker Memorial, Room 201, 8:30 p.m.
LINCOLN DECENNIAL LECTURES. "Maxwell, Hertz and Lorentz." Hendrik B. G. Casimir, Philips Research Laboratories, Eindhoven, The Netherlands. Krege Auditorium, 8:30 p.m. Yetaoin

EXHIBITS. HAYDEN GALLERY. "Greece: VI, V, IV Centuries." Photographic murals of ancient Greek sculpture and architecture with amphiprotos and bronzes loaned from the Boston Museum of Fine Arts. Display through November 26, Monday through Friday 9:30 a.m. to 5:00 p.m. Daily Services
PROTESTANT CHRISTIAN ASSOCIATION. The MIT Protestant Christian Association will sponsor a week-end retreat at Packard Manse, Stoughton, from 7:00 Friday, November 10 to noon on Sunday, November 13. For details, call extension 2325.
MIT SCIENCE REPORTER. MIT ON WGBH-TV, CHANNEL 2 "The Hungry Angels." Dr. Bert Liff with guest, Dr. Nevin S. Scrimshaw, Head of Department of Nutrition, Food Science and Technology at MIT. Wednesday, Nov. 8, 9:30 p.m. and Sunday, Nov. 12, 4:00 p.m.

ELECT REPRESENTATIVES into the United Nations? OUTLAW WAR for the individual under international law? What power for peace does the U. S. Constitution grant the individual? Send inquiry to Foundation for Outlawing War, Box 304, Malibu, Calif.

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