

Dr. Killian Recuperating After Operation Monday

By Alan Rinsky

Dr. James R. Killian, Jr., chairman of the Corporation of Massachusetts Institute of Technology, is doing satisfactorily after surgery Monday morning at New England Baptist Hospital.

He entered the hospital last Thursday and was suffering from a urinary-tract condition, according to his physician, Dr. George C. Prather. He is expected to be discharged in 3 weeks.

The onetime special assistant for science and technology to President Eisenhower became Chairman of the Corporation of MIT in 1959 after nearly ten years as President.

His presidency was marked by a great expansion of the Institute, by increasing responsibilities for defense research and more emphasis on humanities and social sciences for engineering and science students.

Dr. Killian transferred to MIT in 1923 after two years at Trinity College (now Duke University), and received a B. S. in business



James R. Killian

and engineering administration in 1926.

He remained at MIT as assistant managing editor of "The Technology Review," alumni magazine and served as editor from 1930 to 1939, when he became executive assistant to the president of MIT, Dr. Karl Taylor Compton.

E. C. Song Book In Poor Taste, Says Fassett

Copies of a song book distributed by East Campus Social Committee to the house residents were called in Thursday at the request of Dean Frederick G. Fassett because of the book's poor taste.

Meet With Deans

In order to determine the final disposition of the song book, a meeting was held Monday afternoon in Dean Kenneth Wadleigh's office. The others present were Deans Fassett and Speer, Institute JudCom head Robert A. Morris '63, and eleven members of the East Campus House Committee.

The song books, for which the social committee received a unanimous vote of thanks from East Campus House Com, were distributed only to those who requested them in person.

Two Songbooks

Those who desired copies of the book were permitted to choose two versions. Version A was intended for use in mixed company; Version B included a section of additional songs for all-male gatherings.

The song book became an object of controversy as soon as Dean Fassett obtained a copy. Calling the co-chairmen of the social committee to his office, he suggested that all copies of the book already distributed should be recalled. He also requested that all the copies be presented to him at the Monday meeting.

Objections to the book were twofold: First, it was felt that such a publication might create a bad impression of the Institute among outsiders; second, the taste of any student-government organization in printing such a book was questioned.

On the other hand, Dean Wadleigh pointed out that many members of the administration had sung the same songs when they were underclassmen.

Books Returned To E.C.

As a result of the meeting, the books were returned to East Campus House Com; a decision on the final disposition of the books is expected to be reached at the regular HouseCom meeting this week.

Police Impound 40 Bikes Menacing Sidewalk Safety

By Richard Trilling

The Cambridge Police removed 40 bicycles from the Harvard Square area last Thursday morning. The raid was a result of a safety drive by the police.

Police Chief Brennan said that the police had been receiving several calls a day complaining about the sidewalk being blocked by bikes.

Under the law, the City of Cambridge is liable if pedestrians are injured as a result of a bike blocking the sidewalk.

The raid was conducted by Sgt. John E. McCarthy using a pick-up truck and an eight-man task force. After using a wire-cutter to cut locks and chains of illegally parked bikes, they went off with the bikes.

Recovery of the bikes was difficult because Sgt. McCarthy, the only man able to release them was away Friday, Saturday, and Sunday.

As of Monday afternoon, 19 bikes remained. Of these, 13 were ladies' models, and only 4 had licenses.

When Capt. Edward Tierney was asked where students should park bikes he answered, "That's their problem."

(Please turn to Page 15)

Crew Coach Frailey Is Named Next Director Of Student Aid

Jack H. Frailey has been appointed special assistant to the provost of MIT. He will become director of student aid in July upon the retirement of the present director, Associate Dean Thomas P. Pitre.

As director of student aid Mr. Frailey will administer scholarships, loans and other forms of aid in a program which is one of the most extensive in the country, according to Malcolm G. Kispert, vice president, academic administration.

Last year scholarships and loans for undergraduates totaled \$1,933,268 and nearly 50 percent of the students received one or both forms of direct aid. Students earned nearly a million dollars additional in campus employment.

Dean Pitre became director of student aid in 1951, the first person to hold this position at MIT. Previously he had served as a teacher of chemistry and dean of freshmen.

Mr. Frailey, a native of Cleve-



land, was graduated from MIT with an S.B. in Aeronautical Engineering in 1944 and after service in the Navy as a lieutenant, j.g., returned as a graduate student, receiving an S.M. degree in 1947.

Mr. Frailey was captain of the MIT varsity crew as an undergraduate, served as lightweight crew coach from 1954 to 1955 and returned to the staff as freshman crew coach in 1958. He has been head coach of rowing since 1959 and will continue in this capacity, Mr. Kispert said.

TBS'er All Wet, Sports Broken Record



Saturday night was a wet one for WTBS's Jeff Michel '64, who, intending to toss a record into the Charles, wound up making the slimy trip himself.

It all started when Jeff, in line with the "Bomb of the Week" on "Rock 'n' Roll Memory Time," decided to feature his own "bomb."

"I announced at midnight I and whoever else showed up, would go down to the sailing pavilion and throw the record as far as we could. This was at 10:45;

about five minutes later, several guys from Senior House called and said that if I threw the record in, they'd throw me in.

"This was o.k. by me; anything for good old TBS, you know. So, I announced it; but then some guys from Burton called, threatening to toss in the Senior House characters in return.

"Well, after a few more phone calls, I decided that it was getting out of hand, so I called the whole thing off and broke the record then and there in front of the

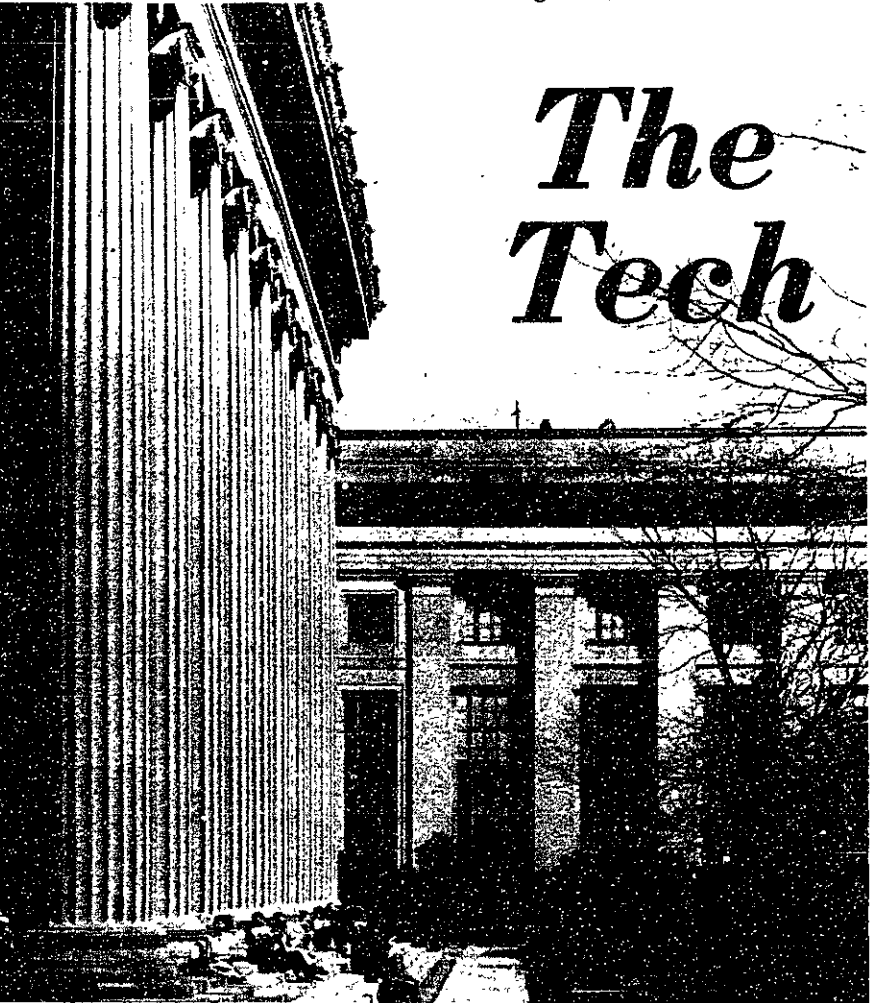


Senior House residents (left) pose with victim Jeff Michel before he takes his "slimy swim" (above).

(Photos by George Harlem)

mike. But the Senior House guys, not being satisfied, came by at midnight as planned and dragged me out of the office; naturally I went along with it.

"We couldn't find a good spot on the same side of the river, so we ran over to Boston, stood around while they took pictures, and then they shoved me in. I got a wild ride back to the studio in a sports car, babbled out a description, and everybody was happy."



Vol. 82, No. 19 Cambridge, Mass., Wed., Oct. 17, 1962 5 cents

Complete With Stoves

Frosh Live In Apartments

By Jules Plangere

Twenty-three members of the freshman class are residing in apartments, according to Dean Frederick G. Fassett, due to the decrease in the number of graduates from dormitories and in the number of dismissals from the Institute.

MIT has rented 7 apartments four at International Apartments, two at 503 Beacon Street, and one at 46 Massachusetts Avenue. The rent is \$185 per term per man, paid to the Institute. The Institute pays the rent to the apartment house and gas and electric bills.

The apartments are furnished with tables, chairs, desks, lamps, and beds, and include stove and refrigerator. The Institute also provides a tutor in residence at International Apartments. The situations at the apartments are as good as or better than those

in dormitories-only one apartment was overcrowded. Cooking is allowed, and most of the men take advantage of this opportunity to save time and money.

Prices of the apartments paid by students to the Institute are less than those quoted previously to students in search of housing by International Apartments.

JP Ticket Options On Sale Next Week; \$13.50 For All Events

Tickets for J P Weekend will be available for sale to those who present junior registration cards on October 24.

The line will form in Building 10; tickets will be distributed on a first-come, first-served basis, one ticket for each junior registration card presented. The price is \$13.50 for the entire weekend.

If any tickets remain after all have an opportunity to present junior registration cards, they will be offered for general sale on October 25.

The first event of this year's Weekend will be a formal dance Friday, November 9, with Bob Bachelder and his 16-piece orchestra.

Field Day will be Saturday afternoon; also, Peter Paul, and Mary will give a 2-hour performance in Kresge. An informal concert with the Techonians and Fats Domino's band will be presented Saturday evening.

INDEX

Book Reviews	13
Cherchez la Femme	3
College World	12
Editorials	4
Entertainment	6-8
Kibitzer	4
Sports	18-20

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12-Meter Yachting Is MIT TV Topic

By James Veilleux
On Channel 2's "MIT Science Reporter" last Wednesday, members of the Department of Naval Architecture explained the fascinating complexity of designing 12 meter yachts for the America's Cup races.

Appearing on the program were Prof. Harvey Evan, Executive Officer of the department, and Prof. Justin Kerwin, manager of the MIT Towing Tank. A third guest, Halsey Herreshoff, discussed the various functions of crew members on a racing yacht.

Prof. Evans emphasized the rigid specifications which must be met by boat designers in the Cup competition. All entries are classed as 12 meter yachts. This means that the specifications of the vessel must comply with the following formula, where R cannot exceed 12 meters:

$$R = \frac{L + 2d + \sqrt{Sa}}{2.37}$$

Here, L represents the length of the hull, measured at a particular distance above the water line. D measures the shape of a cross section of the hull. Sa is the sail area, and F is the average distance between the water line and the top of the hull. Using this formula, the yacht designer

tries to produce the proper compromise between speed and stability by juggling with these different values.

The Nefertiti, for example, was planned for greater stability than its competitors. By building a more stable hull, and therefore increasing the value of D, her designer was forced to reduce sail

area, in order to comply with the formula.

After a hull shape is determined for a particular yacht, its properties can be tested through the use of towing tanks. During the TV program, Prof. Kerwin showed film segments of this type of test being conducted at the MIT Towing Tank.

Boeing 727 Due Next Year; Has Engines In Tail

The Boeing 727, the first U.S. airliner to have its power plant in the tail, is due for commercial delivery next year, it was announced Thursday, Oct. 4, John Steiner '41, chief project engineer for Boeing, gave the details to a seminar sponsored by Course XVI.

A medium range jetliner with a first class passenger capacity of seventy, the 727 is to have a larger speed spread and shorter landing approach than the 707. Although its basic configuration follows from the 707 and the 720, in operation it is a radically different aircraft.

Mr. Steiner attributed its performance to two major alterations in design. One of these, a new high-lift device called the triple-slotted flap, has given wing life coefficients of 214 as com-

pared to 1.7 for both the 707 and the 720. The other, the mounting of three JT-80 engines just forward of the tail provides for better weight distribution and balance. Mr. Steiner stated that the speed and cargo requirements were best met by a cluster of engines aft on the fuselage and the vertical stabilizer rather than locating two turbojets on the forward wing.

Due to the proximity of the engines to a rear door, the 727 will be entered by a ventral stairway. On air tourist flights, the airliner will accommodate 106 and 700 cubic feet of cargo. With its lower approach speed, the 727 will serve many of the smaller airports with runways as short as 4500 feet. A range of 1600 miles will make it suitable for continental service primarily.

Inscomm Seeks Delegates For Conference

Up to four undergraduates will be sent to Montreal to participate in McGill University's conference on the European Common Market, October 25-27.

Applications for the delegates to the conference are available in Litchfield Lounge, 50-110, X2696. Delegates will be chosen on Oct. 20. Finance Board will reimburse

delegates for their conference expenses.

Undergraduate Assn. President Woody Bowman said that students who have a good knowledge of the Common Market or who have lived in Europe or the British Commonwealth are preferred as delegates.

He further urged all people interested in future conferences to apply for this one so that Inscomm may start a mailing list of students who would like to take part in conferences.

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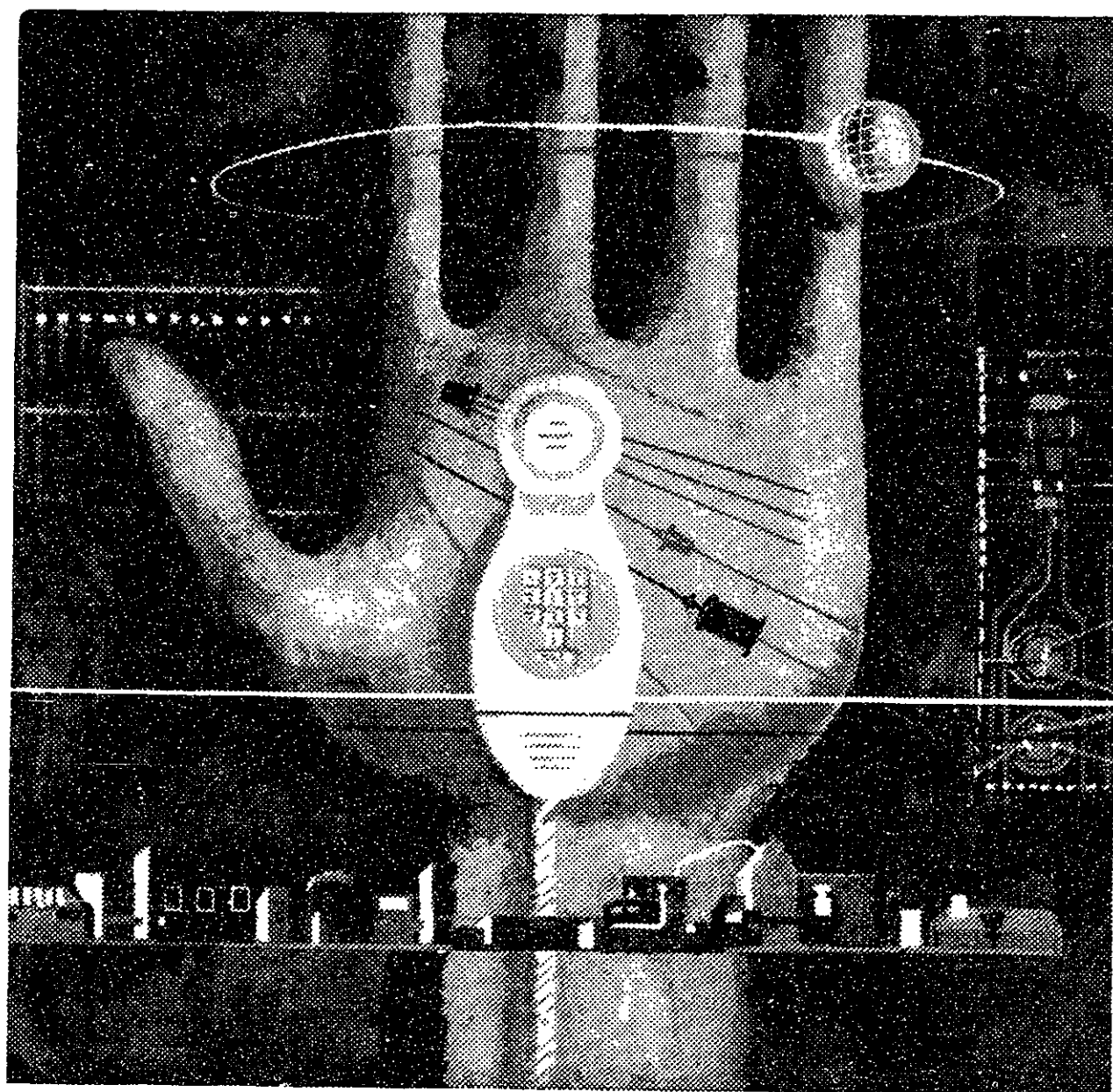
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How To Avoid The \$50 Fine

All out of state student cars must be registered with the Cambridge Police at police headquarters in Central Square. There is no registration fee. Failure to register by the end of the week may result in a fifty dollar fine.

CRC Organization Meeting

Civil Rights Committee will hold an organizational meeting Monday, Oct. 22 in 10-105 at 5:00 p.m. To be discussed is a tutoring project in the South End of Boston to be run jointly with TCA, APO, and DeMolay.



Our future is in the hands of men not yet hired

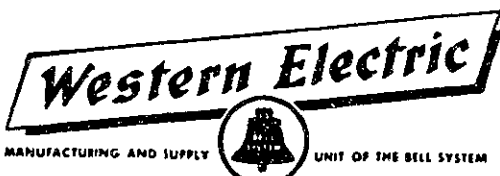
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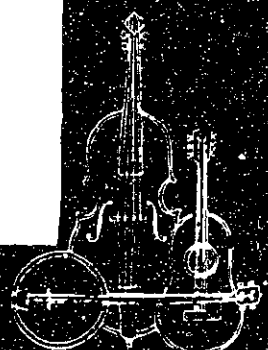
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Judcomm May Be Represented On Faculty Discipline Committee

A representative of Institute Judicial Committee may in the future sit in on certain meetings of the Faculty Committee on Discipline (FCD).

This possibility was one of several topics discussed during a meeting October 1 of Institute Judcomm with Dean Kenneth R. Wadleigh and Prof. Douglas M. McGregor, chairman of FCD. The other points were as follows:

- 1-Methods for dealing with unclear infractions—cases in which it was not clear which rule, if any, had been broken.
- 2-The use of publicity as a punishment for offences.
- 3-The problem of communications, primarily between the Dean's Office and Institute Judcomm.
- 4-Establishment of greater uniformity of rule enforcement within the Interfraternity Conference.

"There is a provision in the FCD's charter," explained Dean Wadleigh, "which permits members of the student judiciary to be invited to meetings. We're just planning to enlarge on this."

The discussion seemed to lean toward a single student representative rather than joint hearings; it was pointed out that most civil cases, as well as certain academic and ethical cases, would not concern the student group and would be heard without the latter's representative.

In line with improving communications, it was generally agreed that both Judcomm and the Dean's Office should increase the volume of information exchanged. A central file, consisting of information on all formal actions taken, was suggested, but nothing definite was concluded.

As Dean Wadleigh pointed out, this was just the first of a series of meetings. "This time we just sat down and discussed the issues, making no definite decisions."

Washtub Bass Is Folk Sampler Instrument



Some of the participants in the Folk Music Sampler presented by the Pershing Rifles last Saturday night in Kresge are shown backstage. Fritz Richmond is shown (left) repairing his washtub bass which broke during the performance.

(Photos by Conrad Grundlehner)

Cherchez la Femme: Mixer Season To Reach Climax

By Dave Trevvett

After the lull last week, the mixer season promises to reach a secondary peak, possibly its climax this Friday night, October 19.

Franklin Square House's annual fall mixer is being held tonight at the house: 8-12 p.m., 11 East Newton Street, with orchestra music. Admission is by ticket only, but social chairmen on campus have a rather large supply; get your ticket quickly, as they cannot be obtained at the door. (NOTE: Their notice also mentions the fact that guys will be expected to wear jackets and ties, not merely sweaters; this, however, is merely a reminder for Harvies.)

For the politically minded, the Citizens for Lodge are sponsoring a mixer at the Harvard Cage Friday night, 8-12 p.m. Students from about 20 schools all over Mass. are expected to show up, with Wellesley, Holyoke, and others sending busloads; attendance of 1000 is anticipated. The admis-

sion is free, and needless to say George Cabot himself will be there to say a few words.

Whidden Memorial Hospital's School of Nursing will put on an "Autumn Leaves" mixer on Friday, 8-12 p.m., \$.99 donation. It'll be at 100 Fremont Avenue in Everett, Mass.

Also on Friday will be a mixer at Margaret Jewett Hall of Mt. Auburn Hospital in Cambridge: 8-12 p.m., \$.99 admission, with refreshments. Although it's being sponsored by the Class of '63, it's open to all classes. Music will be provided by Mike Rizzo and his orchestra.

Lesley has finally gotten around to holding a mixer; Friday night one lowly dollar will treat you to four hours (8-12 p.m.) of George Graham's band music and the company of girls from the whole campus. It'll start in the lounge of Trentwell Mason White Hall (corner of Everett & Oxford Streets in Cambridge) and probably spill out into the court later. Of great interest to many Tech-

men will be the mixers at BU dorms this weekend. Towers, as previously mentioned, will be holding an invitational affair Friday night, 8-12 p.m., with music by jukebox and free refreshments. Invitations (a limited number) have been sent to Burton, Baker, and Grad House, as well as to several fraternities. And a few invitations can still be obtained from the Towers social chairman.

Charlesgate will be throwing a "Castle Caper" the same night, same time. Fliers are being sent out, and these will give information on how to get invitations. They'll probably use about the same arrangements as Towers. There'll be a live (and lively) band, and refreshments will be served.

The activity Friday night will be rounded out by a mixer at Emmanuel College: 8-12 p.m., in Marian Hall. The \$.99 donation is distributed among various charities, so give with a smile.

Saturday night the main activity will be at Carmichael Hall of

Tufts University. It'll be an all-campus affair with music by Bill Nye's band; guys \$.75, girls free.

Sunday afternoon Emerson College will be sponsoring an Open House, 3-5 p.m. Although it's being held at the women's residence at 100 Beacon Street, there'll be girls from the other dorms, also.

As mentioned previously, Harriet E. Richards House of BU is holding an open house October 27, 8-12 p.m. The address is 191 Bay State Road; all classes will be represented, and admission is free.

The week after that, on November 2, Bay State Academy (a business school) is having its annual Harvest Hop on the roof garden of the Hotel Vendome. There'll probably be no admission charge.

Towers will be holding another mixer similar to its affair this Friday on November 16, this time with a band. On the same date Brook Hall of BU will hold its big mixer, 8-12 p.m., with no invitations necessary for admission. There'll be folk singing as well as dancing, so anyone who wants to is invited to bring a guitar.

One of the last mixers of the season will be an affair at Shelton (BU), November 30, 8-12 p.m. It'll be an invitational mixer, and invitations will be sent to various spots on campus in the not too distant future. There will be a band to provide music.

The above listings should just about take care of your girl-meeting needs. And for information on where to take the girls after you've met them, keep a steady eye (or a reasonable facsimile thereof) on The Tech's entertainment section. Notice of events at other schools (other than mixers, that is) will be carried in "Making the Scene."

Heads Center For Materials Science

Dr. Robert Allan Smith, British physicist and specialist in semiconductor and infra-red physics, has been appointed the first director of the new Center for Materials Science and Engineering. Dr. Smith will also hold a simultaneous appointment as Professor of Physics.

The inter-departmental center, which will be housed in a \$6 million building soon to be built on the Cambridge campus, is a part of MIT's new center-oriented approach to teaching and research in science and engineering. There will also be centers for earth sciences, life sciences, communications sciences, and aeronautics and astronautics.

Since he received his Ph.D. from Cambridge in 1936, Dr. Smith has been engaged in radar research in Britain. He spent the 1961-62 academic year as Professor of Physics at the University of Sheffield, England.

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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.

Appointment

The Board of Directors of The Tech has accepted the resignation of Joseph Kirk '64 as Business Manager, and is pleased to announce the appointment of Howard M. Brauer '65, of Senior House and Evanston, Illinois, as Acting Business Manager.

Boys Will Be Boys

Or so they say. In the letters column on this page there appears a rather humorous appeal to save the East Campus Song Sheet Supplement. This "supplement" is a collection of unbelievably obscene songs placed at the back of a mimeographed booklet and preceded by some less offensive ditties (for mixed company). The cover page of this little tome reads "Massachusetts Institute of Technology East Campus Song Book Published by the East Campus Social Committee."

We are not inclined to pontificate on the matter of filthy songs in general, nor are we unwilling to admit the possibility that some people could see value in them. We do resent the immature implication attached to us all by having the MIT name spelled in capitals across the cover, and we are sure that there are members of this, and other living groups in a similar situation who are ashamed of having the name of their groups connected with such an assemblage of trash.

If some of the residents of East Campus

feel there is something to be gained by singing these songs over their beer, they should have the discretion to avoid elevating their publication to a semi-official document. As should be obvious to these gentlemen, there are some who feel their songs highly offensive, and these people are not confined to the MIT administration.

There was a similar incident of indiscretion involving a song sheet published by The Senior House which fell into the hands of a student at a Cambridge women's college. The net result of this was the creation of a great deal of unhappiness on the part of the girl involved and bad feeling in general toward MIT.

If a group wishes to take the responsibility for assembling such a collection in the future, it should publish only under its own auspices, and be fully aware of the delicate nature of the matter it prints.

Technique '63

"Don't start vast projects with half vast ideas," say Technique's posters. Technique 1962 impressed many of its purchasers with the thought that the editors' ideas had been something less than vast. To define the theme and purpose of a college yearbook in a few words is difficult at best. Last year's book tried to achieve a tongue-in-cheek cynicism which the editors felt represented the attitudes of the MIT student body. The result was a book which directed indiscriminate slams and slights at many facets of MIT. We feel that it will not be too long until many of its readers, its publishers included, regret this one-sided picture.

Technique 1963 threatens to be the same kind of book. Since we all have some stake in its publication (the Finance Board grant to the 1962 book was \$5,800) we do not feel out of place in warning the editors of the forthcoming volume against becoming enamored with ideas which, while they may be amusing now, will bring only regret five years hence. The publication of the MIT yearbook is too expensive a proposition to be taken lightly.

Technique is one of the largest student activities in terms of annual cash flow. This year Technique has increased rates across the board. Advertising rates, option prices, and living group page rates have all been increased. Instead of placing the burden of publication costs upon the entire student body through grants from the activity fee which is allotted

to Finance Board, Technique is attempting to place more of the burden upon those students who purchase the book and upon the advertisers.

Recently, a student who purchased his only copy as a senior had invested, from all sources, \$15-\$20 in the edition which he purchased. Even if he had purchased a copy during all four years at MIT the cost per copy would be reduced to approximately \$10.50, assuming that the purchaser had obtained his option early. With living group page rates increased \$10 per page this year and advertising rates up \$50 per full page insertion in the last four years, the effective cost to the buyer has not been greatly reduced; however, the operating capital will come from different sources.

We feel that all of the major student publications at MIT can, within reasonable limits, maintain a balanced budget. This year, Technique has reduced the amount of its initial request to \$350. We hope that the trend continues until the point that a small reserve can be obtained to cover slack years without requesting additional funds from Finance Board.

Freshman Politics

The Freshman Council representatives for the Class of 1966, undoubtedly caught up by the proclivities of Massachusetts political practice, attempted some adroit political maneuvering before last Thursday night's Council Elections. Attempting to make some coalition political hay, the living groups with large representation tried to combine and guarantee class offices to men from their groups.

The chairman of the Freshman Coordinating Committee, realizing that this trading for votes was going on, attempted to quell the bloc voting by electing the president and vice president on a single ballot.

While this stop-gap measure may have briefly saved the reputation of the Freshman Council, we feel that the whole situation speaks very badly for the practice of electing representatives from freshman sections. The imbalance of representation thus created only intensified the temptation to vote as a living group bloc. In view of this, there is no reason to assume that representatives elected from the sections will be more inclined to represent the Freshman Class as a whole than representatives elected from living groups.

The Institute Committee should bear this incident in mind when it discusses revision of representation in January.

Letters to The Tech

Readers Protest Songsheet Seizure

To the Editor:

It seems that certain members of the Administration were offended by an anthology called the East Campus Song Sheet Supplement—so much so, in fact, that they have ordered that all copies be withdrawn from circulation and given to them (for what purpose one can only guess).

What amazes us is that these gentlemen were apparently unaware of the existence of raunchy songs in our folklore here at MIT. The East Campus contribution is a newcomer compared to such classics as the ever-popular Walker Staff Song Sheet, the Baker House Super-Duper Extra-Crude Song Sheet ("No Originals—All Time Tested"), the publications of the Burton House Society For The Preservation And Encouragement Of Etc., and several others of such caliber as to make a trooper flinch. Our acquaintance with the folkways and

mores of our fraternal fellows is not so extensive, but we doubt that their communal singing is confined to "Arise, Ye Sons" (even with altered words) and Sigmund Romberg. (In fact, we nourish the suspicion that anyone who'd sing "Gaudeamus Igitur" while getting crooked is a Phony in the true Salinger tradition.) . . . The songsheet has received the enthusiastic support of people on both sides (and in the middle) of the East Campus political fence (chuckle). One would think that the stimulus for such overwhelming displays of unity, brotherhood, and camaraderie would be encouraged, yea, subsidized, rather than set upon and extirpated at the outset, by an Administration which has professed such concern over the absence of these qualities in East Campus.

We would like to use your pages to appeal to the MIT community. Fraternity men! Do you believe in the hallowed tradition of

lustily singing of bawdy songs over foaming steins of beer? Professor Ted Wood (and other lovers of folk-culture)! Do you not advocate self-expression as manifest in the singing of all genuine folk-songs? Administrators! Many students need this medium for the sublimation of their frustrations—Keep them off the streets! Dormitory men! Affirm the right of downtrodden students to spit in the face, euphemistically speaking, of a stodgy, convention-ridden, malevolent world! The East Campus Social Committee needs our support (moral or otherwise) in its hour of distress.

A closing word to the anonymous (for obvious reasons) Brother's Keeper who felt obliged to complain so that he might save our souls from this Stain: Realize that not all of us share your values. If you fear our corrupting influence, you may avoid us. We value humor in this overly-serious world. We seek it where we can find it. These songs are enjoyable and, in the words of an unknown bard, ". . . the good ones we've seen/ So seldom are clean,/ And the clean ones so seldom are comical."

David Patterson '64
John S. Reed '64

The above letter was posted on the East Campus bulletin board prior to its publication here and elicited the following in response.—Editor

Purpose of Songsheet Letter Questioned

To the Editor:

The Patterson-Reed songbook letter is useless — if not damaging — because it is an appeal to the wrong audience. They attempt to amuse students rather than to convince the administration. For the administration alone will determine songbook policy; only if their opinion coincides with ours will be raunchy songbook be preserved. Its salvation lies in conservation.

Please turn to page 5.

Kibitzer

By MICHAEL LIPIK

NORTH

♦ J 8 2
♥ Q J 10
♦ A Q J 10
♣ A 10 7

WEST

♦ 10 6
♥ 5 4 3 2
♦ 8 7 6
♣ 5 4 3 2

EAST

♦ K Q 7
♥ 9 8 7 6
♦ 4 3
♣ Q J 8 6

SOUTH

♦ A 9 5 4 3
♥ A K
♦ K 9 5 2
♣ K 9

THE BIDDING:

SOUTH	EAST	NORTH	WEST
1 ♠	pass	3 notrump	pass
4 ♦	pass	4 ♠	pass
4 notrump	pass	5 ♥	pass
6 ♠	ALL PASS		

"One card from a Yarborough," West thought as he sorted his hand. Maybe our opponents can get a plus score on this hand. I'm beginning to feel ashamed of the score," which he now looked at again: East-West up 3000 points. "And this is still the first rubber—boy have they chucked a lot of points!"

"I wonder what South will do to this one," he mused as he led the five of clubs against six spades. South won it in his hand, and went into a long huddle. Finally he laid down the Ace of spades. Down one, losing two tricks to East's trumps.

"Tough luck, pard," said North sadly. "It's a shame you didn't have a stronger suit."

"Yes," South answered, "no spade led from dummy could avoid the loss of two trump tricks either. I hoped there was either a singleton honor or doubleton King-Queen."

West started to speak, but checked himself. "It is really amazing," he thought, "how play-

ers fail to visualize the possible distributions of the outstanding cards. Singleton honor! South would be lucky to lose only two tricks if there was a singleton honor in the hand.

"South had the luck his way, and failed to take advantage of it. There are only four distributions of the trumps which he can pick up with the loss of only one trick. He had one of them, which happens only fifteen percent of the time.

"There is one thing about three of the distributions that is unusual. South must start spades from his hand by leading low. If he had considered the possible holdings, he would have led a small spade toward the Jack, intending to finesse the eight. In this case, the eight forces the Queen, and now upon regaining the lead, South can lead the Jack from dummy, killing both my partner's king and my ten at once. It's a difficult play, but South could pick up only one of the four favorable distributions by laying down the Ace."

"Yes sir," West said as South added an additional hundred points to the East-West total, "it is taking advantage of the cards when they lie favorably that separates the men from the boys at this game."

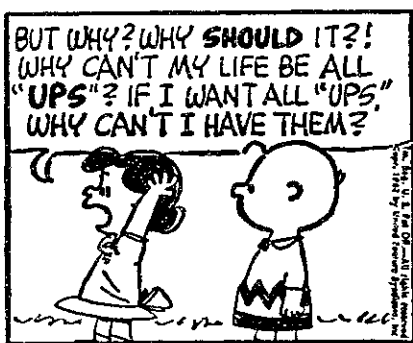
Your deal," said South glumly, cutting the deck toward West, "give us some good cards for a change."

Puzzler: Answer to last week's hand:

You hold the following hand:
♠ —, ♥ A K Q 3, ♦ A Q 10 7, ♣ A Q 9 5 2.

What do you bid if your right hand opponent a) opens three spades, b) opens four spades?

(Please turn to page 15)



PEANUTS appears daily and Sunday in the Boston Herald.

Inside Inscomm

System To Be Established
For Student Entrepreneurs

By Woody Bowman



The topics highlighting the next Institute Committee meeting are Spring Weekend and Entrepreneurs.

The Weekend date will be finalized within the week. The story on the decision will be given to The Tech shortly.

The major project of the Institute Committee for this term will be establishing a system to deal with student business enterprises. I think that there is no question that they should be allowed to operate and even that they should be permitted to grow and expand.

There is however obvious difficulty in allowing this sort of thing to occur under the patch-work system which we now have with no standard rules and three independent groups making decisions as to who should operate and how.

At the coming meeting we hope to break a lot of ground on formulating the basic principles which should underlie such a system.

Another problem which presently concerns us is how to select qualified persons to attend inter-collegiate conferences. We are trying a somewhat more extensive publicity campaign to interest persons to apply for the position of delegate. We are not attending a large number of conferences this year. Rather, we hope to work on improving selection and reporting techniques on about four high quality conferences.

The Executive Committee attended a conference on Student Union operations in Maine ten days ago. We found that we were able to receive very few good ideas to help us plan the operation of our new Center, mainly because we have a completely different concept of activities and student government than all of the other New England schools. Where they rely upon one central organization to program events, we have three autonomous clubs doing the same thing and avoiding most of the problems which occur by centralizing planning.

We believe that we have a good system and that we compared favorably to the schools present.

The Executive Committee is nearly ready to divest itself of active participation in planning for the Student Center and a Student Center Committee will be appointed shortly.

Letters:

(Continued from page 4)

vincing the administration of our point of view.

The Patterson-Reed letter is not calculated to sway the opposition. The only facts they present are known already by the administration. They offer jokes, jibes, but no earnest attempt to negotiate the issue. They amuse themselves while (inadvertantly?) furthering useless noisy opposition at the expense of quiet, reasonable discussion. In short they cannot have improved the situation; they may have worsened it.

Gary DeBacher '64

Parking Comment
For Bicycles!

To the Editor:

The most common platitude at MIT is that there is a terrible parking problem for automobiles. In fact, the real parking problem is for bicycles. The clutter of upset and upright bicycles at every entrance of MIT attests to this fact.

It is my recommendation that bicycles be banned at MIT and that all bicyclists be required to drive cars. Everyone knows that it is possible to find a parking place on Memorial Drive if he waits long enough.

Ward Halverson

Conservatory Presents
Free Chamber Concert

A Chamber Concert of French, German and American music will be presented by the New England Conservatory tonight at 8:30 p.m. in Jordan Hall.

Phosphate Dental Conference at MIT

The first conference ever held on the possible relation of phosphates to dental caries took place at MIT October 4 and 5. This "Working conference," as Prof. Robert S. Harris, conference chairman, described it, was presented jointly by the Department of Nutrition, Food Science and Technology and the U.S. Office of Naval Research. The sessions attracted scientists from origins as varied as England, Sweden, Washington, D.C. and Los Angeles.

Phosphates have been associated with tooth decay only in the last few years. The connection between the two is unclear, but evidence so far indicates that phosphates in the dental enamel crystal structure may contribute to whiteness and resistance to decay. Prof. Har-

ris says removal of phosphates in food processing may be responsible for tooth decay in man.

Research seems to show that phosphates in cereals do combat dental decay, at least in animals. Some experiments with human beings have been conducted, but have not yet yielded conclusive evidence.

If phosphates do affect the teeth, they may do their work through the saliva, while passing through the mouth in ingestion, or through the blood system after digestion. Their exact mechanism of action with the agents of decay is also ill-defined.

Papers were presented on studies of the human tooth itself, studies of edible phosphates, literature already published on the

topic, and possible explanations of the decay-stopping action of phosphates. It is hoped that results of the conference will be published within several months.

'Threepenny Opera'
Held Over At Charles

"The Threepenny Opera's production will be extended through November 4 at the Charles playhouse.

Featuring such songs as "Mack the Knife", this Bertolt Brecht-Kurt Weill musical stars Stephen Elliott, Gerry Jedd, and Norman Roland.

Performances are Tuesday-Friday at 8:30; Saturday at 5:30, 9:00; Sunday at 3:00, 7:30.

a
message
to
graduating
engineers
and
scientists

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Watercolors At Museum Sunday

The Museum of Fine Arts will present the Karolik Collection of American Watercolors and Drawings (1800-1875) beginning next Sunday.

The 3000 objects in the collection represent a comprehensive cross-section of artists in this country during the first part of the nineteenth century.

The exhibit will be on special view until January 6, 1963.

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Diverse Styles Disrupt 'Summerskin'

By Tomas R. Guillermo

"Summerskin," my first Torre-Nilsson film, proved an interesting experience, although not entirely satisfactory. Winner of the "Grand Prize" in Cannes, and regarded as a masterpiece by many critics in the U. S., "Summerskin" deals with the question of sex vs. spiritual love.

A beautiful girl (Marcela) agrees to entertain the dying son (Martin) of her grandmother's lover. In return, she will receive a full Dior wardrobe and a trip to Paris. Martin is led to believe that he has found "true" love in Marcela. But instead, he is faced with her frigidity. Torre-Nilsson, foremost Argentine director, has given us another fine film in the tradition of his "End of Innocence." He handles his material adequately and shows taste in his technique.

Torre-Nilsson has not, however,

SUMMERKIN (now playing at the Fenway): Produced and directed by Leopoldo Torre-Nilsson; photography by Oscar Meli; written by Beatriz Guido and Leopoldo Torre-Nilsson.

CAST
Marcela Graciela Borges
Martin Alfredo Alcon
The grandmother Franca Boni
In Spanish, with English subtitles.

found a style of his own. For the most part the film keeps a slow pace a la Antonioni ("L'Avventura," "La Notte"), at which Torre-Nilsson is very dexterous. The photography of the girl against the different backgrounds, with special attention to the most insignificant of her movements, is an example. Sometimes it reminds us of Welles ("Citizen Kane"), as in the conversation between Marcela and the grandmother or the dinnertable scene near the end. At times, Torre-Nilsson employs Bergman's broad and static shots (the lonely

beach), while at times the film takes an incredibly fast tempo (Marcela's sunbathing by the pool).

To imply that a director cannot profit from the contributions of his predecessors is foolish. And, in any case, Torre-Nilsson is not copying, but rather working along the same lines of those named above. The problem with "Summerskin" is that it lacks unity of style. Any individual scene is filmed with painstaking care (the love scene on the beach and the doctor's arrival near the end are perfection), in the style Torre-Nilsson finds fitting. But the change in pace makes the stride after effect too obvious; it calls our attention to it. As a result, the movie is a bit artificial. The spectator is aware that the movie is overworked, and not spontaneous. Fortunately this does not detract much from the favorable impression created by the directness of the film and the beauty of its photography, which make it very enjoyable.

TV Series By Fine Arts Museum

The Boston Museum of Fine Arts has scheduled two television series for the 1962-1963 season on WGBH-TV.

"Images," the other series, will feature George Peters, Curator of the New York University Art Collection, will be presented from the Museum galleries at 8:30 p.m. Mondays, October 15 through May 27. Himself a painter, Peters

Movie Schedule

Wed. Oct. 17 through Tues. Oct. 23
(Unless otherwise stated, the Sunday schedule is the same as the weekday schedule except no movies are shown before 1 p.m.)
ASTOR—"The Longest Day," 8:15; Wed., Sat., Sun., 2:00; Sun., 7:30.
BEACON HILL—"Phaedra," 9:30; 11:30, 1:30, 3:30, 5:30, 7:30, 9:30.
BRATTLE—"A Summer to Remember," 5:30, 7:30, 9:30, matinee Sat. at 3:30. Starting Sunday: "The Five Day Lover," plus request cartoon festival, daily 5:30, 7:30, 9:30, matinee Sun. and Sat. at 3:30.
CAPRI—"Anna Karenina," 10:00; 12:00, 2:00, 4:00, 6:00, 8:00, 10:00.
COMMUNITY PLAYHOUSE—"Boy's Night Out," until Sat.; mats. Wed. and Sat. 2:00; evenings, 7:45.
COOLIDGE CORNER—"Carry on Teacher," 2:00, 7:45, 9:40; Sun., 1:50, 3:45, 5:30, 7:50, 9:45; "Circle of the Sun," 4:30, 7:15, 9:10, Sun., 1:15, 3:15, 5:15, 7:20, 9:15.
EXETER—"Waltz of the Toreadors," 2:05, 3:50, 5:40, 7:25, 9:15.
FENWAY—"Summerskin," 1:00, 2:30, 4:19, 6:03, 7:47, 9:31; "Little Spoon," 4:10, 5:54, 7:38, 9:22.
GARY—"Barabbas," evenings, 8:30; mats. Wed., Sat., 2:30; Sun., 2:30, 5:30.
HARVARD SQUARE—"Through a Glass Darkly," 3:00, 6:25, 9:45; "Lady Chatterley's Lover," 1:25, 4:45, 8:10. Tentatively scheduled to start Sunday: "Two Women" plus "Guns of Navarone."
KEITH MEMORIAL—"Lady and the Tramp," 9:30, 12:15, 3:55, 6:57; Sun., 2:40, 5:35, 8:32; "Almost Angels," 10:46, 1:35, 4:24, 7:14, 10:02; Sun., 1:00, 3:56, 6:52, 9:43.
LOEW'S ORPHEUM—"Tarzan Goes to India," "Damon and Pythias," no times available.
MAYFLOWER—"The Chapman Report," 9:30, 11:45, 2:05, 4:30, 6:50; 9:15; Sun., 1:15, 3:45, 6:15, 8:45.
MIT—Friday, "The Eagle," Room 10-250, 6:30, 9:00; with piano accompaniment; Saturday, "The Wrong Man," Room 10-250, 5:15, 7:30, 9:45.
MUSIO HALL—"The Interns," until Fri., 2:45, 4:55, 7:13, 9:27.
PARAMOUNT—"Flame in the Streets," 11:20, 2:40, 6:00, 9:25; "Concrete Jungle," 9:45, 1:05, 4:30, 7:55; Tues., "Figaro," 11:50, 3:50, 7:45; "Tosca," 9:50, 1:45, 5:35, 9:30.
PARK SQUARE CINEMA—"Divorce Italian Style," 1:30, 5:30, 7:30, 9:30.
PILGRIM—"No Time for Sergeants," 9:50, 1:40, 5:30, 9:20; Sun., 1:30, 3:25, 9:15; "Indiscreet," 11:50, 3:45, 7:30, Sun., 3:40, 7:30.
SAXON—"Requiem for a Heavyweight," 10:00, 11:35, 1:10, 2:55, 4:40, 6:25, 8:10, 9:35; Sun., 1:00, 2:45, 4:30, 6:15, 8:00, 9:45.
UPTOWN—"Peyton Place," 11:25, 4:30, 9:15; Sun., 4:15, 9:15; "The Long, Hot Summer," 2:05, 7:05; Sun., 2:05, 7:10.

Theatre Schedule

ACTOR'S PLAYHOUSE—"The Father," Tues.-Fri., Sun., 8:40; Sat., 7:30, 9:30.
CHARLES PLAYHOUSE—"Three Penny Opera," Tues.-Fri., 8:30; Sat., 5:30, 9:00; Sun., 3:00, 7:30.
COLONIAL—"Beyond the Fringe," evenings at 9:00, matinees Thurs., 2:15, Sat. 2:30 through Saturday.
HOTEL SOMERSET—"Compass Improvisational Theatre"—Opens Friday, Fri., Sat., 8:45, 10:15, 12:00; 8:00, 10:30; Sun., Tues., Wed., 9:00; Thurs., 9:00, 11:00.
KRESGE LITTLE THEATRE—"The Hairy Ape," "Before Breakfast," Oct. 18-20; 8:30.
WILBUR—"Tchin-Tchin," evenings 8:30, matinees Wed. & Sat., 2:30 through Saturday.

Dramashop To Show 'Under Milk Wood'

Dylan Thomas' play "Under Milk Wood" will be presented by the MIT Dramashop Celebrity Series with the Circle in the Square Company in Kresge Auditorium Saturday at 8:30.

There will be only one performance; all seats may be purchased for \$1.50 by calling Kresge Auditorium at extension 1910.



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BU Theater Presents 'Beggar on Horseback' By Kaufman, Connelly

"Beggar on Horseback" by George Kaufman and Marc Connelly will be presented by the Boston University Theatre Arts Division.

It will run October 25-27 at the University Theatre, 264 Huntington Ave.

A satire on America's worship of success, the play is an expressionistic drama set the 'twenties. The original music score by Deems Taylor will be used as well as the pantomime "A Kiss in Xanadu", which was written for this play, performed by University dancers.

Director Samuel Hirsch describes "Beggar on Horseback" as "One of the first plays to satirize American middle class provincialism, tabloid murder trials, and the frantic search for pleasure and excitement that marked the 'twenties'."

Curtain time will be 8:30 p.m. Tickets are priced at \$2.00, \$1.50, and \$1.00. For ticket reservations and information call KE 6-9121.

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Dramashop Begins With Plays By Yeats, Synge



Gary Feldman '63 as the Blind Beggar in "The Cat and the Moon."

—Photos by Curtiss Wiler

MIT DRAMASHOP, An Evening of One-Act Plays by Irish Authors. Supervised by Joseph Everingham and Helen Brumby
THE CAT AND THE MOON
By William Butler Yeats
Directed by Dick Nalbandian, '63
Set Design by Conrad Jaffe, '63
Lighting Design by James Moore '64
Special Music composed by Harry Baya, G
The Players
First Musician... Harry Baya, G
Second Musician... Steven Frank, '63
Third Musician... Leonard Rubinstein, '63
Blind Beggar... Gary Feldman, '63
Lame Beggar, Michael Merritt, '66
THE TINKER'S WEDDING
By John Millington Synge
Directed by Rob Lancaster, '63
Set Design by John Leide, '65
Lighting Design by James Moore, '64
Special Music composed and played by Fred Prahl, '62
The Players
Sarah Casey... Phyllis Masek
Michael Byrne... Tim McGettigan, '66
Mary Byrne, his mother... Catherine Maher
Priest... Joseph Morlan, '65

The two plays chosen by the MIT Dramashop for their first production are typical of Irish drama: a religious-mystical play by Yeats, and an earthy, irreligious comedy by Synge. It is typical of amateur productions that the comedy was much better presented than the more serious vignette.

"The Tinker's Wedding", with its load of scruffy gypsies, its corrupt priest, and its gloriously drunken Irish crone, and its flow of sparkling Irish dialogue, was easily the hit of the evening Catherine Maher, as Mother Mary Byrne, flowed effortlessly through an uproarious old character role. Her brogue seemed inborn, as did her sense for comic emphasis.

As Sarah Casey, the tinker's woman yearning to make it legal, Phyllis Masek was a little less at ease. She was at her best wheedling the priest (Joseph Morlan) into lowering his fee for the service, and her burst of Irish temper when all failed was also grand.

Joseph Morlan's priest seemed much too young and shrill. Standing tall and a bit too stiffly, he seemed uncomfortable in his cassock, though his hints of avarice and drunkenness were quite well played.

Unfortunately, the tinker himself has little to do but stand willingly aside while his woman makes all the arrangements. Tim McGettigan easily fit the part physically, though like most people throughout the evening he had some trouble with the brogue.

Technically, both the evening's offerings were well if simply done. James Moore's lighting for both at all times complimented the play, never intruding.

The sets, while no miracles of realism, fit the economy of the production. The emphasis here was on acting, not set-building.

The Yeats play, "The Cat and the Moon", while quite good at moments, added up to a rather childish parable. The Blind Beggar (Gary Feld-



Phyllis Masek as Sarah Casey, and Joseph Morlan '65 as the Priest in Dramashop's presentation of "The Tinker's Wedding."

man), who chooses to be cured, and the Lame Beggar (Michael Merritt) who chooses to be blest, did quite well with their roles, though they presented only the simplest of characters. The Blind Man, who remains human and therefore vindictive after the miracle, is the easier to portray. Merritt had

more trouble portraying the equally human Lame Man through his sudden elevation and enlightenment.

The Holy Man (Harry Baya), far from a mysterious semi-religious figure, seemed a wooden totem set into motion. His words came almost as disembodied commands from an oracle, or impersonal riddles from God.

Since everyone presented a direct, simple character, much of the wonder and intensity possible in the play simply evaporated. What was left... the clash of human types, the parable of salvation... was well-played, though less than the play deserved.

At Kresge Saturday:

Musical Clubs Concert

MIT Musical Clubs will present its annual combined concert in Kresge Auditorium Saturday evening at 8:00 p.m. Admission will be free.

Prof. Klaus Liebmann, Director of Music, will conduct the Glee Club in works by Schubert, Sibelius, Randell Thompson, and others. The Symphony Orchestra, under the baton of John Corley, will play Brahms' "Tragic Over-

ture" and Chabrier's "Espana."

The Concert Band, also directed by Corley, will perform Jenkins' "American Overture" and Jacob's "Original Suite."

The Brass Choir, conducted by Andrew Kazdin, and the Technicians, MIT's jazz group, will also perform.

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Sat.—Hoot with invited guests
Sun.—Guitar Workshop
Mon.—George Joseph and Ann Kostik
Tue.—Hoot, all-Boston Folksingers

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Fri.—Hedy West
Sat.—Hedy West
Sun.—Jeff Gerber
Mon.—Hootenanny
Tues.—Jeff Gerber

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Mon.—Hedy West, Mitch Greenhill
Tues.—Jackie Washington
Wed.—Tom Rush

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EL 4-2088

New Harpsichord Gets Inaugural Performance

The first public demonstration of MIT's new harpsichord will be Friday. The Department of Humanities is sponsoring an inaugural concert at 4 p.m. in Kresge Auditorium.

Music from the Baroque and the first performance of Suite for Harpsichord and Two Recorders, by Gregory Tucker, will be played by Klaus Liepmann, Gregory Tucker and Friederich and Inge von Huchne.

BSO Concerts

Fri., Oct. 19, 2:15 p.m. and Sat., Oct. 20, 8:30 p.m.
SCHUMANN—Symphony No. 4, in D minor, Op. 120.
SHOSTAKOVITCH—Symphony No. 10, in E minor, Op. 93. First performance in Boston.

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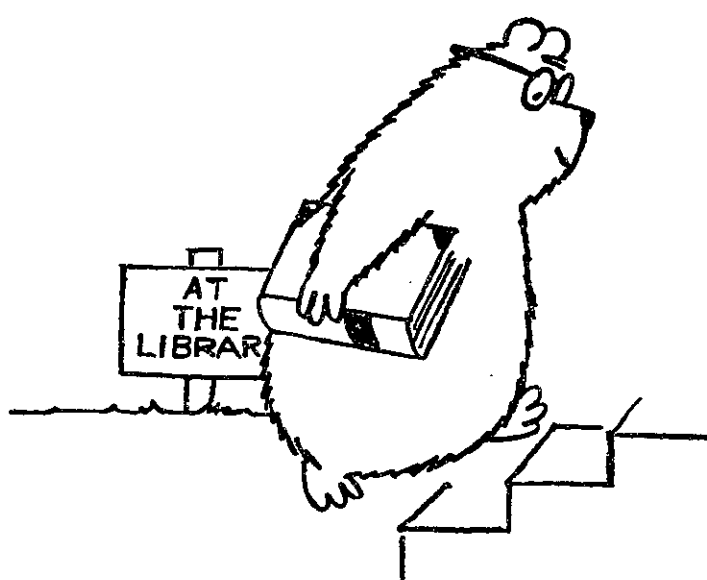
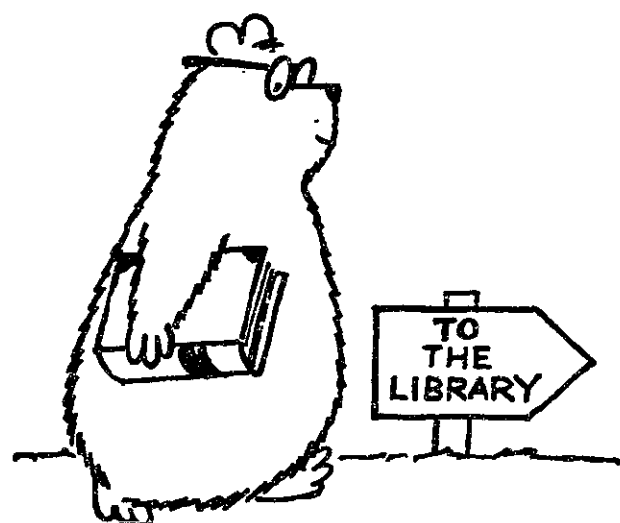
Good Until Oct. 31

M. A. GREENHILL Presents
MIRIAM
MAKEBA
at John Hancock Hall
Stuart and Berkeley Sts.
SAT., OCT. 20, 8:30 P.M.
"from Africa
a
Compelling
Pulsating
Voice"
Tickets: \$4, 3.50,
2.80, 2.20

CAFE YANA
50 Brookline Ave. Near Kenmore Sq.
presents
Hedy West
NEW YORK TIMES... adept instrumentalist... pleasant... soprano... retains enough country timber to ring true... worth watching.
FRIDAY, OCT. 19 & SATURDAY, OCT. 20

haskell

the Schaefer bear



Why is Schaefer a best seller with college men? Because it's the one beer to have when you're having more than one.



SCHAEFER BREWERIES, NEW YORK AND ALBANY, N.Y., CLEVELAND, OHIO

movies...

'Barabbas' A Desecration Of A Magnificent Book

"It begins where the other big ones leave off," claim the ads for "Barabbas." However, the cross-opera today is made out of past successes. The fresh approach does not lead to originality. Barabbas, for instance, is eventually taken to Rome, not as an ancient house-slave, but as a gladiator ('Demetrius and the Gladiators'). He is chased around the Colosseum by Jack Palance in a chariot ('Ben Hur'). Early in the film we glimpse the scourged Christ wrapped in a soldier's red mantle ('The Robe'), and at its end there is a pan-shot of a whole forest of crosses ('Spartacus').

These gratuitous additions to Par Lagerkvist's basic story seem a little tired by now. They can be ignored, of course, but what then remains is the desecration of a magnificent book.

Lagerkvist is a classicist. His book is spare and simple, with all nonessentials removed. If ever a book cried out for square screen, black and white film, this is it. The only excuse for adding spectacular scenes here would be to project a background Lagerkvist ignored. In this Columbia release they more often get in the way.

Lagerkvist's Barabbas was a man unwilling to die. The savior's willingness to die in his stead is therefore a permanent puzzle to him, aggravated because people seem to have heard of "the rabbi" wherever Barabbas goes.

Barabbas saw Christ; saw him crucified; saw the empty tomb; talked with the disciples and even to Lazarus... and still re-

BARABBAS: At the Gary Theatre. Producer, Dino Di Laurentis; director, Richard Fleischer; screen play, Christopher Fry. Based on the novel by Par Lagerkvist.

THE PRINCIPALS

Barabbas Anthony Quinn
Rachel Sylvana Mangano
Pilate Arthur Kennedy
Sahak Vittorio Gassman

fused to believe until the very end. (The meeting with Lazarus could be a great film experience; it does not appear in this version.)

The savior's legend finally overtook Barabbas, a slave in a sulphur mine. He was shackled to Sahak, a Christian who asks of him details of the miracles he's heard. Barabbas, concealing his own role, tells only the bare facts he saw.

The film is a rough parallel of this story, except for the side-trips for spectacle's sake. Vittorio Gassman's Sahak hears Barabbas' name immediately, and they fight... first physically, then with words. These two are sprung from the mine not by a Christian guard but by a cave-in. (What other use is there for trainloads of extras but to slaughter them in catastrophes?)

Later, Lagerkvist had Sahak crucified as a Christian. Barabbas watches, reliving the former experience. Here, Sahak dies by javelin. The scene can thus introduce the charioteer-versus-foot-man duel.

Near the end there is a sequence in which the book was filmed almost unchanged. Barabbas blunders through the empty catacombs, seeking to become a Christian. He emerges in a flaming Rome, and is told the Christians set the fires. Believing them, he too sets fires, and is caught and crucified for his incendiaryism.

Lagerkvist's "Barabbas" is a powerful discussion of the necessity for faith. An unforgettable movie could be made from it. Perhaps, when the publicity noise for this new Columbia cross-opera has been forgotten, someone will try.

Prausnitz Conducts Symphonic Series Starting October 25

The Conservatory Symphony Orchestra will present the first in its annual series of concerts Thursday, October 25, in Jordan Hall at 8:30 p.m. There will be no admission charge.

The program will include Bruckner's Third Symphony, Samuel Barber's Overture to The School for Scandal, Berlioz' Royal Hunt and Storm from The Trojans, and Weber's Overture to Oberon.

The series, which will be conducted by Frederik Prausnitz, will include a number of new or rarely heard works, such as Debussy's Choreographic Poem Jeux and Prokofiev's Second Symphony.

WTBS Schedule

(88.1 mc FM) as of October 1st, 1962	
SUNDAY:	8:00—This is the Blues
5:00 p.m.—News	9:00—News
5:05—Folkside	9:05—
6:30—Jazz by the Seven Sons of Harvard	Masterworks
7:00—Music at M.I.T.	12:00 p.m.—Jazz at Midnite
8:00—Boston Arts Festival 1962	1:00—News
9:00—News	1:05—Sign Off
9:05—Classroom Concert	THURSDAY:
12:00 p.m.—Jazz at Midnite	morning: same as Mon.
1:00 a.m.—News	6:00 p.m.—Tempo
1:05—Sign Off	6:50—News
MONDAY	7:00—'Round 'Round
7:30 a.m.—Rise and Shine	8:40—Lumelite Review
8:00—News	9:00—News
8:05—Rise and Shine (cont'd)	9:05—Masterworks
8:45—Sign Off	12:00 p.m.—Jazz at Midnite
6:00 p.m.—Tempo	1:00—News
6:50—News	1:05—Sign Off
7:00—The John C. Heine Show	FRIDAY:
9:00—News	morning: same as Mon.
9:05—Jazz Special	6:00 p.m.—Tempo
12:00 p.m.—Jazz at Midnite	6:50—News
1:00 a.m.—News	7:00—
1:05—Sign Off	Jazz Special
TUESDAY	9:00—News
morning: same as Mon.	9:05—Nite Owl
6:00 p.m.—Tempo	(Music by telephone request—Kirkland 7-7862)
6:50—News	2:00 a.m.—News
7:00—The Barry Douglas Show	2:05—Sign Off
8:45—Jazz from Canada	SATURDAY:
9:00 p.m.—News	3:00 p.m.—Rock and Roll Memory Time
9:05—Masterworks	5:00—News
12:00 p.m.—Jazz at Midnite	5:05—Jazz Spotlight
1:00—News	6:50—News
1:05—Sign Off	7:00—
WEDNESDAY	Departures in Music
morning: same as Mon.	9:00—Folk Music from Club 47 (broadcast live)
6:00 p.m.—Tempo	10:00—News
6:50—News	10:05—Nite Owl
7:00—CBC Presents	(Music by telephone request—Kirkland 7-7862)
	2:00 a.m.—News
	2:05—Sign Off

Making the Scene

MUSIC

Pianist and Harpsichordist Rosalyn Tureck, October 22, Alumnae Hall, Wellesley, 8:00 p.m.

Pianist Jeanne Stark, recital October 21, 3 p.m., Gardner Museum.

Miriam Makeba, Folklore Concert Series, October 20, John Hancock Hall.

Dave Brubeck Quartet, October 19, Donnelly Memorial Theatre.

Kingsmen Trio, October 20, Donnelly Memorial.

Modern Jazz Quartet, October 19, Symphony Hall, 8:30 p.m.

Violinist Ashkenazy, October 26, Symphony Hall, 8:30.

New England Conservatory, concert of Bruckner, Barber, Berlioz, Weber's works, October 25, Jordan Hall, 8:30, free.

New England Conservatory, Chamber Concert, French, German, and American music, October 17, Jordan Hall, 8:30, free.

Leningrad Philharmonic, Mravinsky conductor, October 18, Boston University Celebrity Series.

MOVIES

LSC Classic Series, "The Eagle", Rudolph Valentino and Vilma Banky in a story of Catherine the Great, (USA, 1925). Also, The Halfback of

Notre Dame, a Mack Sennett take-off on college football. There will be piano accompaniment with these two films. Room 10-250, 6:30, 9:00, October 19.

LSC Entertainment Series, "The Wrong Man", Room 10-250, 5:15, 7:30, 9:45, October 20.

Holland and the Dutch, Cambridge Public Library, October 21, 4 p.m., free.

White Mountain Ski Runners, John Pepper ski movie, October 18, at John Hancock Hall.

Miscellaneous

D. W. Brogan lecturing on "The American Party System", October 26, Alumnae Hall, Wellesley, 8:00 p.m.

O'Neill's "The Hairy Ape" and "Before Breakfast", MIT Community Players, October 18-20, 8:30, tickets \$1.50.

Harvest and Chrysanthemum Show, Horticulture Hall, October 18-21, Thurs. 2-10 p.m., Fri. 10-10 p.m., Sat. 10-10 p.m., Sun. 1-8 p.m.

International Auto Show, October 24, Commonwealth Armory.

Mag. Newman, Prof. James Burns, lecturing on "What's Wrong with the Republican and Democratic Parties in Massachusetts", Jordan Hall, October 21, Ford Hall Forum.



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Variety of Uses

New Detector To Study Mars, Smoke

Electronic instruments which pre-test food, measure how much smoke there is in the air, and count billions of white blood cells to spot abnormal ones are a few of the thousands of new scientific devices now in use.

Because so many of these newly developed instruments of science are used only in research, their discoveries are rarely publicized. A few of the more important ones follow: an infrared spectrophotometer, a 200-pound detection device that can answer a wide variety of questions with deadly accuracy; the cellscan, a device which, when fully developed, may permit rapid analysis of low-level radiation damage to blood cells; a hydrocarbon detector, a device which is essentially a counter of carbon atoms; and a gas chromatograph, a detection tool that can figure out the composition of a tiny sample of complex material with very high speed and accuracy.

Multi-Purpose Detector

The infrared spectrophotometer can trace rare poisons in the bloodstream, trace the origin of heroin, describe the amount of

smoke in the atmosphere, tell the molecular structure of a substance, or relate the possibility of life on other planets.

Its principle of operation is simple: every substance absorbs radiation to a greater or lesser degree. By sending infrared rays through a substance, and by comparing the results obtained with known substances, it is possible to learn what the unknown substance is made of and how pure the substance is.

An Analytic Speedster

A spectrophotometer can examine 0.035 ounce of any substance—solid, liquid, or gas—and in most cases identify it within fifteen minutes. Already scientists are using it to make analyses; manufacturers use it to learn the exact composition of the materials they work with.

Early in 1963, a special infrared spectrophotometer will be used in conjunction with a "flying telescope"—the Stratoscope II

Electronic Marvels

—to examine Mars. The goal is to determine whether there is any form of life on the Red Planet.

Cellscan Scans Cells

The cellscan holds great hopes for the future. At present there is no absolutely certain index by which cell damage may be measured, although researchers suspect that the number of double-nuclei white blood cells of a certain type rises with the amount of radiation damage.

To determine this damage at present a technician with a microscope must count the double-nuclei blood cells in a sample. Even in its present state of development, the cellscan can remove the tedium from this task by using a combination of computer and television camera to do the job. New techniques are aimed at cutting all counting times to fifteen minutes.

The hydrocarbon detector can

(Please turn to Page 16)

1963 GRADUATES!

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So don't miss the chance to get the low-down on this dynamic company that supplies the energy—electricity, gas and steam—that keeps New York going and growing. Talk with the Con Edison man.



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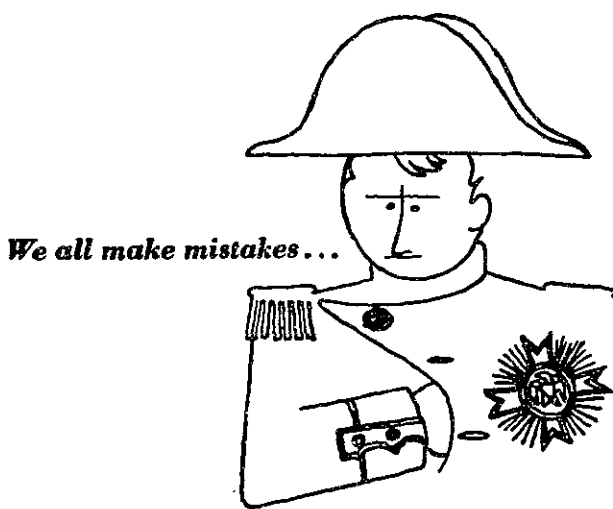
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TECH COOP

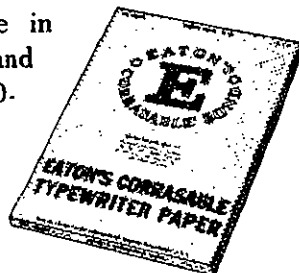


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Town Planner Advocates Maximum Use Of Walking

By Susan Hemley

Paul Ritter, town planner, of Nottingham, England, lectured at MIT October 11 on the problems of traffic separation. This talk was the first in a series of ten, sponsored by the Department of City and Regional Planning.

Traffic separation is the problem of separating man and motor, which Mr. Ritter feels lead at best to dullness and at worst to danger when brought together. Mr. Ritter showed slides of various towns, including the "new towns" of England and developments in Germany, Sweden, France, and the United States, which had been planned so as to enable man to make the maximum use of walking. Such planning, believes, which allows utilization of the motor car almost solely for longer trips than within the town, encourages neighborhood unity and physical fitness.

Mr. Ritter is singularly qualified to talk on this topic because he holds not only the office of town planner but is also an architect, and a sociologist.

The first town built on the plan that Mr. Ritter advocates was Radburn, England, built in 1928. In Radburn and other towns of its type, the homes are grouped around central pedestrian areas which provide, in their different facets, meeting places for all dwellers from young children to their grandparents.

Mr. Ritter believes that Radburn and similar towns should be studied as experiments, not as final and unchangeable results which must be either totally condemned or totally approved. If they could be analyzed point by point, he feels, their disadvantages could be corrected while their underlying principles would be seen to be basically worthwhile.

Attention, all witty, urbane college students:

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RULES: The Reuben H. Donnelley Corp. will judge entries on the basis of humor (up to 1/4), clarity and freshness (up to 1/4) and appropriateness (up to 1/4), and their decisions will be final. Duplicate prizes will be awarded in the event of ties. Entries must be the original works of the entrants and must be submitted in the entrant's own name. There will be 50 awards every month, October through April. Entries received during each month will be considered for that month's awards. Any entry received after April 30, 1963, will not be eligible, and all become the property of The American Tobacco Company. Any college student may enter the contest, except employees of The American Tobacco Company, its advertising agencies and Reuben H. Donnelley, and relatives of the said employees. Winners will be notified by mail. Contest subject to all federal, state, and local regulations.

THE ANSWER: ANCIENT EGYPTIAN MUMMIES THE QUESTION: Who raised ancient Egyptian children?	THE ANSWER: WHALE OIL THE QUESTION: What's good for lubri-cating creaky whales?	THE ANSWER: Art Appreciation THE QUESTION: What does Arthur Appreciation like to be called?
THE ANSWER: TWAIN THE QUESTION: What wuns on a twack?	THE ANSWER: James Joyce THE QUESTION: Can you give a boy's name and a girl's name both starting with J and having five letters?	THE ANSWER: Across the river and into the trees THE QUESTION: How do you get to Grandma's house?

The answer is:

Get Lucky

the taste to start with...the taste to stay with

The question is: WHAT IS THE SLOGAN OF THE FAVORITE REGULAR CIGARETTE OF TODAY'S COLLEGE STUDENTS? If you missed that one, go to the rear of the class. Everyone should know that fine-tobacco taste is the best reason to start with Luckies, and that taste is the big reason Lucky smokers stay Lucky smokers. Prove it to yourself. Get Lucky today.



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"Of course, sir. And this..."



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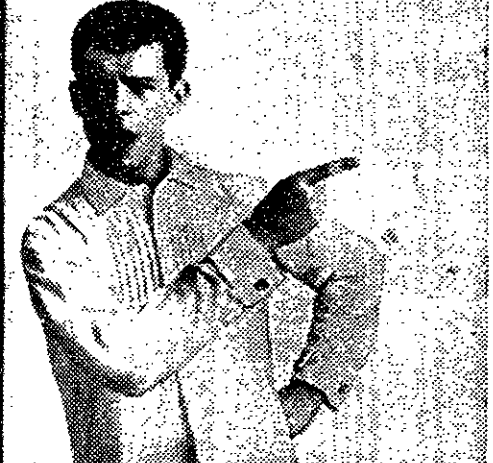
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"sir, this is Skin Bracer. They've changed the bottle. I open it now, sir?"



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ENGINEERING MECHANICS
APPLIED MATHEMATICS
PHYSICS and
ENGINEERING PHYSICS

INTERVIEWS

Appointments should be made in advance through your College Placement Office

POWER FOR AUXILIARY SYSTEMS. MARINE AND INDUSTRIAL APPLICATIONS.

New Muller Microscope Renders Atoms Visible

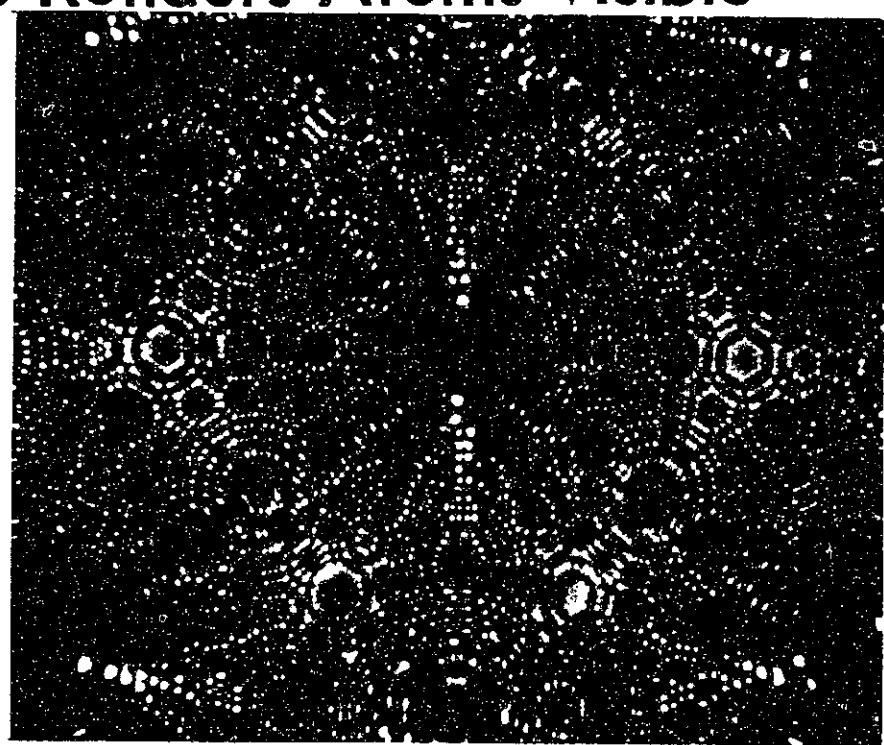
Scientists, for the first time, are now able to see individual atoms of matter using the world's most powerful microscopic device, the Muller Field Ion Microscope. Although it has been known for nearly fifty years that the atomic lattice—literally a lattice work of atoms—is the basic structure of solid matter, not until this new microscope was introduced this year has this phenomenon been visible to the eyes of science.

Capable of magnifying up to two million diameters with good definition and clarity, the Muller Field Ion Microscope, introduced by Central Scientific Company, a division of Cenco Instruments Corp., surpasses the well-known electron and field emission microscopes in power. The latter two devices produce images that are somewhat blurred and diffracted at magnifications approaching one million diameters.

This new microscopic research tool, developed by Dr. Erwin W. Muller of Pennsylvania State University, is expected to help scientists learn the answers to many important problems in metallurgy, especially problems dealing with the refractory or high-melting-point metals. Using the Cenco microscope, minute imperfections in the crystal structure of metals can be detected, photographed and intimately studied. In this way, scientists will come to fully understand the mechanism of failure or fatigue in metals subjected to high stress and temperatures such as those used in missile and outer space vehicles.

Other applications for the new instrument include studying the effects radiation has on metal. This information will be of prime importance to engineers working with nuclear reactors aboard our submarines and in electric power plants.

The super-powered microscope operates much the same as a conventional television picture tube. A fluorescent screen is bombarded with helium ions catapulted from a sample of the metal being examined. Extremely high voltages operating in a vacuum are used to produce high field strength in the sample which is etched to an extremely fine point. These ions, as they hit the screen, depict their place of origin on the metal sample and produce what amounts to a picture of the atomic structure of the metal.



A nearly perfect crystal of tungsten is portrayed in this photo-micrograph taken with the new Muller Field Ion Microscope. This particular photo-micrograph is magnified 2,700,000 times. Each luminous spot seen in the photo is an individual atom of matter, never before visible to the eye. (Photo by Cenco Instrument Corp.).

Although high in magnification power, the Muller Field Ion Microscope is relatively inexpensive, costing about a tenth the price of a conventional electron microscope. One of the most esoteric of the advanced research instruments developed in recent years, the new microscope is expected to be widely used throughout the world and aid men in their continuous quest for new knowledge.

Dave Brubeck
I'm in a Dancing Mood

Ray Conniff
The Way You Look Tonight

Miles Davis
If I Were a Bell

The Brothers Four
Marianne

André Previn
Like Love

Duke Ellington
Perdido

Carmen McRae
Paradiddle Joe

Roy Hamilton
Angel Eyes

Gerry Mulligan
What Is There To Say

The Hi-Lo's!
Everything's Coming Up Roses

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Buddy Greco
The Lady Is a Tramp

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

HAPPINESS CAN'T BUY MONEY

Can education bring happiness?

This is a question that in recent years has caused much lively debate and several hundred stabbings among American college professors. Some contend that if a student's intellect is sufficiently aroused, happiness will automatically follow. Others say that to concentrate on the intellect and ignore the rest of the personality can only lead to misery.

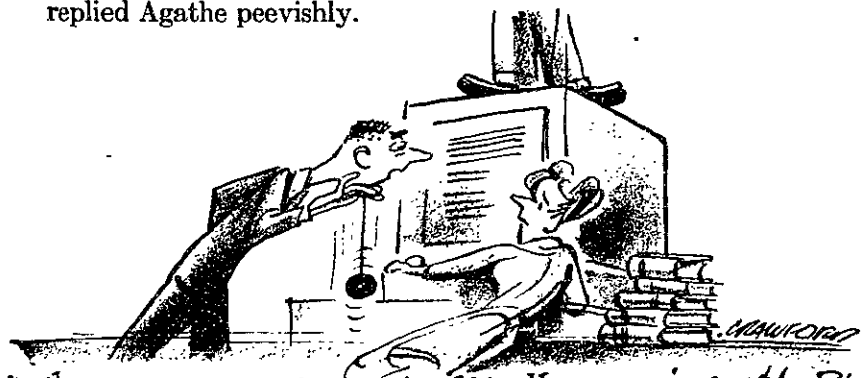
I myself favor the second view, and I offer in evidence the well-known case of Agathe Fusco.

Agathe, a forestry major, never got anything less than a straight "A", was awarded her B.T. (Bachelor of Trees) in only two years, her M.S.B. (Master of Sap and Bark) in only three, and her D.B.C. (Doctor of Blight and Cutworms) in only four.

Academic glory was hers. Her intellect was the envy of every intellect fan on campus. But was she happy? The answer, alas, was no. Agathe—she knew not why—was miserable, so miserable, in fact, that one day while walking across campus, she was suddenly so overcome with melancholy that she flung herself, weeping, upon the statue of the Founder.

By and by a liberal arts major named R. Twinkle Plenty came by with his yoyo. He noted Agathe's condition. "How come you're so unhappy, hey?" said R. Twinkle.

"Suppose you tell me, you dumb old liberal arts major," replied Agathe peevishly.



"All right, I will," said R. Twinkle. "You are unhappy for two reasons. First, because you have been so busy stuffing your intellect that you have gone and starved your psyche. I've got nothing against learning, mind you, but a person oughtn't to neglect the pleasant, gentle amenities of life—the fun things. Have you, for instance, ever been to a dance?"

Agathe shook her head.

"Have you ever watched a sunset? Written a poem? Smoked a Marlboro Cigarette?"

Agathe shook her head.

Well, we'll fix that right now!" said R. Twinkle and gave her a Marlboro and struck a match.

She puffed, and then for the first time in twelve or fifteen years, she smiled. "Wow!" she cried. "Marlboros are a fun thing! What flavor! What filter! What pack or box! What a lot to like! From now on I will smoke Marlboros, and never have another unhappy day!"

"Hold!" said R. Twinkle. "Marlboros alone will not solve your problem—only half of it. Remember I said there were two things making you unhappy?"

"Oh, yeah," said Agathe. "What's the other one?"

"How long have you had that bear trap on your foot?" said R. Twinkle.

"I stepped on it during a field trip in my freshman year," said Agathe. "I keep meaning to have it taken off."

"Allow me," said R. Twinkle and removed it.

"Land sakes, what a relief!" said Agathe, now totally happy, and took R. Twinkle's hand and led him to a Marlboro vendor's and then to a justice of the peace.

Today Agathe is a perfectly fulfilled woman, both intellectually and personalitywise. She lives in a darling split-level house with R. Twinkle and their 17 children, and she still keeps busy in the forestry game. Only last month, in fact, she became Consultant on Sawdust to the American Butchers Guild, she was named an Honorary Sequoia by the park commissioner of Las Vegas, and she published a best-selling book called *I was a Slippery Elm for the FBI*.

© 1962 Max Shulman

The makers of Marlboro are pleased that Agathe is finally out of the woods—and so will you be if your goal is smoking pleasure. Just try a Marlboro.

College World

'Great Adventure Of The Decade' Ends With Mutiny On South Pacific

By Toby Zidle '63

"Are you planning anything special for this summer? From *The Simmons News* we read of a voyage around the world. The 96-foot brigantine, *Yankee*, sails from Miami on July 1. The planned itinerary included such places as Pitcairn and Easter Islands, the South Seas, the Orient, Africa, and around-the-horn to South America and the West Indies. The twenty-five people aboard will actually serve as crew and help navigate and sail the ship, sharing the expenses of the cruise."

This was the first paragraph of "College World" exactly twenty months ago. The "Yankee" did sail as scheduled on July 1, 1961. The crew numbered nineteen (12 men and 7 women) each of whom paid \$6,000 for what had been advertised as "one of the great adventures of the decade."

Now, twenty months after the original publicity, the "Yankee" has found its way back to the headlines of college newspapers. In fact, it made its way to a major story on the front page of *The Trinity Tripod*.

After leaving Miami, the "Yankee" sailed lieasrely through the Panama Canal and touched the islands of Pitcairn and Tahiti. But then, as the ship crossed the Equator and headed for the East Indies, the captain began acting "like a windjammer skipper of 100 years ago."

Other difficulties also plagued the "Yankee". According to one of the crew members, Dr. Richard Cardines (Trinity '55), the voyage was poorly planned, and the ship often lacked good food or even communication with land. Because of a power failure on board, seven days on the Coral Sea were spent without drinking water. There were numerous complaints of harsh discipline. Also unconfirmed reports state that two of the post-college age women of the crew developed a serious rivalry over the captain's favor.

The result was mutiny on the high seas. A majority of the crew refused to continue any further and the "Yankee" was sailed to Cairns, an important port of Northeastern Australia. There Cardines was elected to head the committee of dissident passengers. They demanded that the owner refund \$3000 of their fee and refused his offer to fly them home as "not good enough for all that we have been through."

After some negotiations, the owner complied with the demand, and all the rebel crew members have returned home except Cardines. Cardines, reportedly nearly penniless, is working his way across the central Pacific as a surgeon.

Money-Back Guarantee

Elsewhere, discipline is leading to expulsions, rather than to mutinies. Officials at Indiana University have cracked down on cheating on exams. The crackdown was the result of a final exam theft last spring. The theft was discovered in time for questions to be changed, but was not revealed until a few weeks ago.

Three students were suspended from the University and seventy others were placed on probation along with five fraternities. Neither the stu-

dent's nor fraternities were identified.

Dean of Students Robert H. Shaffer said the three suspended students had stolen and were selling test questions for a sophomore course in economics on a money-back guarantee—no cost to the buyer if the questions were not used. He added that the fraternity houses would be closed if they were involved in further cheating.

No Oil At USL

If you went to class one morning and found an oil derrick erected in the Great Court, you might be inclined to regard it as a joke. But suppose you were going to school in oil-rich Louisiana and found an oil derrick pumping away beside the Engineering Building. Rumors spread quickly when this happened at the University of Southwestern Louisiana in Lafayette.

No oil was found. In fact, no oil was being looked for. It all started with the donation of an oil well pumping unit to the department of petroleum engineering. The seniors in the department took over and, co-ordinating the efforts of 150 people and 50 companies, soon had a "working" well.

The completed installation included a 1,000-foot well drilled by the W.C. Fatjo Company and a 66-foot production derrick with one string of tubing as an instrumented rotative gas lift system. A second string of tubing was used as a closed circuit instrumental pumping system. Company donations, including labor, services, equipment, and materials, totaled approximately \$60,000.

'Register Here'

Being a few weeks into the first term, college newspapers arriving at *The Tech* office often carry registration day stories. Among the most unusual of these is one from UCLA. There, at the head of one of several very long lines, was a table over which hung the sign, "Frosh women register here."

The two students who manned the table were not a part of the official registration procedure, but their black books now include over four hundred new names, addresses, and phone numbers.

More Expensive Than Tech?

We notice also that the first tuition hike has already been announced. According to *The Sophian* (Smith College), Mount Holyoke College has announced a \$100 increase, effective next September, bringing its tuition to \$1600. Also affected will be the room and board fee, rising from \$1000 to \$1150. Thus, while the average Techman pays less than \$2500 to the Institute for tuition, room, and commons, the Mount Holyoke girl will be paying \$2750.

Quote Of The Week:

In a column by Sports writer Walton Lowry of the *Birmingham* (Ala.) News:

"Herman Beck, Akron, Route 1, tells me 'that beavers are delicious.'"

"I have been eating beaver for 12 to 15 years," he said "Get a young one . . . bake or barbecue him . . . and you'll never have to ask 'Are they good?'"

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Tech Coop

THE
COOP

Annual Meeting

The annual meeting of the membership of the Harvard Cooperative Society, in accordance with Article XIV of the By-Laws, will be held in . . .

Harvard Hall 1

Wednesday, Oct. 24, 1962

5 p.m.

Members who have joined since July 1, 1962 are Participating Members and are cordially invited to attend.

THE
COOP

Book Review

Egghead Guide Derides Institutions --Especially Colleges, FBI, and DAR

By David G. Johnson

The author claims that the purpose of this book is "to take the reader on a sort of demolition tour of America—to strip some of our most sacred institutions down to their BVD's and to show what can be done about them if anybody feels so inclined."

Mr. Thompson does manage to strip various institutions down to their BVD's, or even less. He gets his digs in at everything characteristic of America except marriage, apple pie, submarine races, and farm life. Special attention is given to the ridicule of college, armed forces, senate investigations, and the trends of our fashionable society. Wade Thompson definitely manages to knock all revered institutions from their pedestals as promised.

The second part of Mr. Thompson's avowed purpose, however, is neglected as thoroughly as the first promise is fulfilled. He never comes close to showing "what can be done about [the sacred institutions] if anyone feels so inclined." The demolition of

Egghead's Guide to America
Wade Thompson
Macmillan Company
148 pages, \$3.50

Americana is accomplished with thoroughness, rapidity, and infectious glee. The reconstruction is assiduously avoided.

Any reader is sure to be offended sometime during the course of this book, but that same reader will also find one of his own major complaints eloquently expressed. You will have a chance to laugh at Norman Vincent Peale, J. Edgar Hoover, and the DAR. You will also be subjected to an account of the difficulties of organizing a peace march. The case of the peace march is of particular interest to Mr. Thompson for two reasons. The first reason is that Wade Thompson himself is a peace marcher. (He is still able to discuss the situation humorously though.) Secondly, the peace march illustrates the author's belief that the U.S. of A. is one big bundle of self-contradictions, e.g., Americans love peace, they love marching, but they abhor peace marches.

Although Wade Thompson is a hammer-happy idol smasher, he usually uses precise logic and tongue-in-cheek sarcasm. Here are a few of my favorite examples. "My own pacifism is purely mathematical: one world minus one world leaves no world."

"Terry Brennan . . . said that football scholarships are Good Things because they occasionally help a student who might otherwise not be able to go to college. He could have justified prostitution scholarships by the same reasoning, but he didn't bother."

Concerning the FBI: "But surely it is more important to the average American to know that a mailman's mother has been cleared of any taint of Communist ideas than that a few millionaire gangsters get caught." "I doubt that we can begin fighting a conventional war without tempting our enemies to become unconventional, especially if we are so unfortunate as to start winning the war. Desperate peoples do desperate things, and no nation will ever lose a war with grace and loving-kindness." Concerning the results of writing a "How to" book: "Everybody will honor you and praise you as though you had just saved Elizabeth Taylor from Norman Vincent Peale—or vice versa." An alleged quote from the DAR: "Daughters, we must teach and teach again the principles of

(Please turn to page 15)



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Information about Science and Health may also be obtained on campus through the

Christian Science Organization

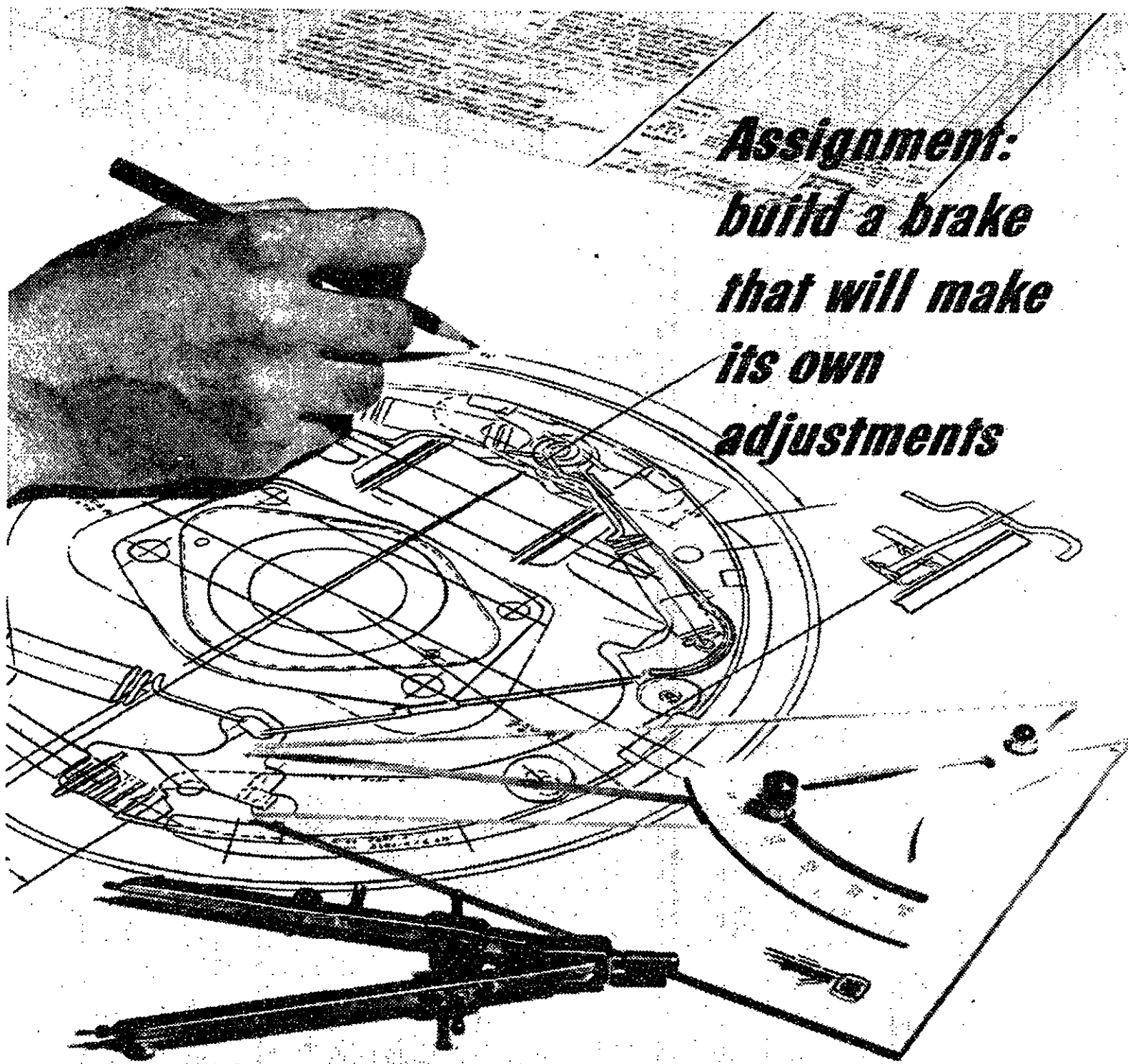
M. I. T.

Meeting Time

7:15 P.M. Tuesdays

Meeting Place

MIT Chapel



It's now a fact: every Ford-built car in '63 has self-adjusting brakes

"Give us a brake," Ford Motor Company engineers were told, "that will automatically compensate for lining wear whenever an adjustment is needed—and make it work for the entire life of the lining."

Tough assignment—but not insurmountable. Today, not only does every Ford-built car boast self-adjusting brakes, but the design is so excellent that adjustments can be made more precisely than by hand.

This Ford-pioneered concept is not complex. Key to it is a simple mechanism which automatically maintains proper clearance between brake drum and lining.

Self-adjustment takes place when the brakes are applied while backing up. This adjustment normally occurs but once in several hundred miles of driving. The brake pedal stays up, providing full pedal reserve for braking.

Another assignment completed—and another example of how Ford Motor Company provides engineering leadership for the American Road.



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Brookhaven College Visitors' Day Scheduled Oct. 20

The Brookhaven National Laboratory, Upton, Long Island, New York, will hold its thirteenth annual Visitors' Day, Saturday, October 20. In conjunction with this day, Brookhaven plans its fifth annual College Visitors' Day, Friday, October 26 and its ninth annual High School Visitors' Day, open to Junior and Senior High School students, October 27.

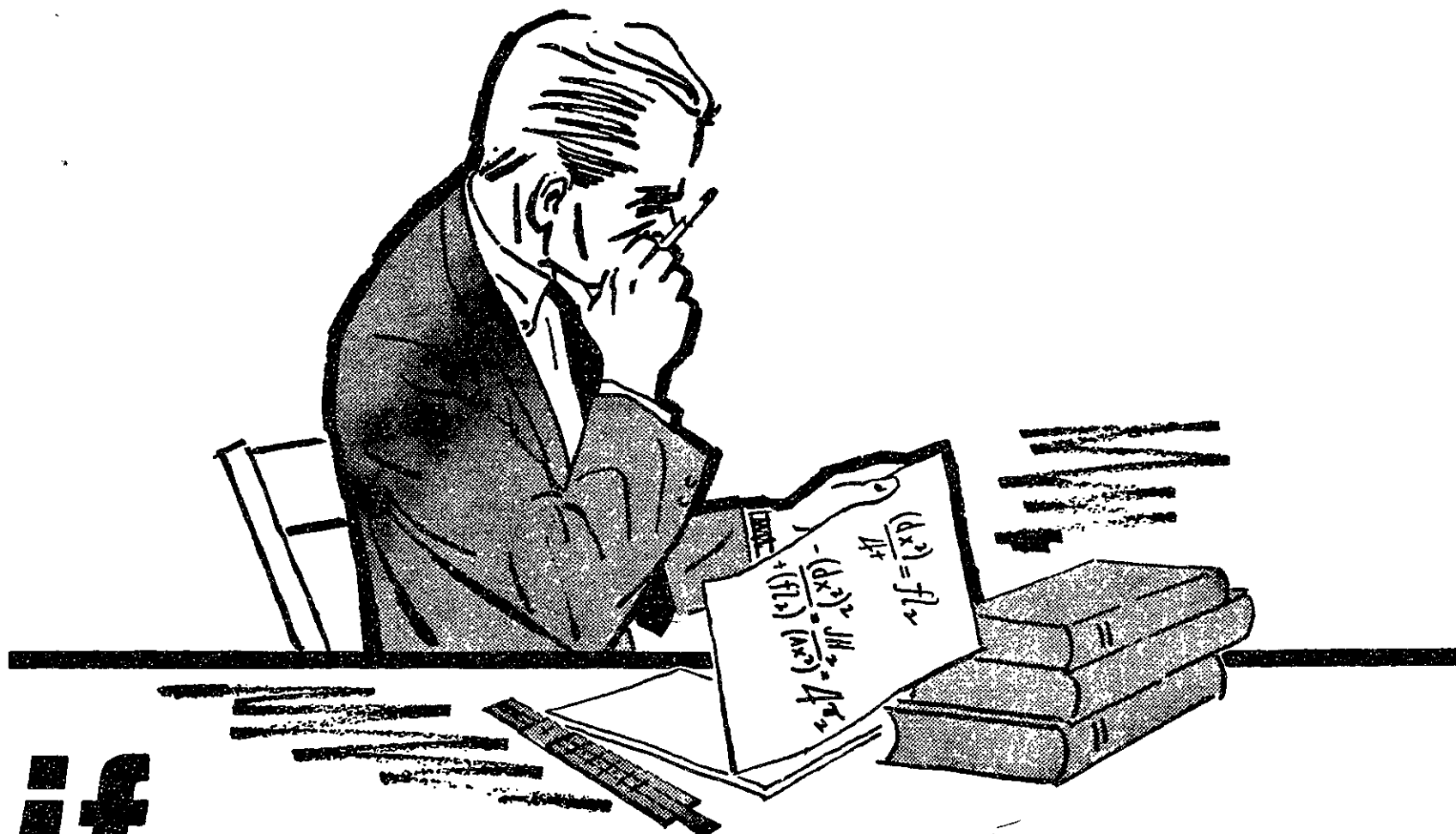
On these three days the Labora-

tory will provide tours of four of its major research facilities: the nuclear reactor; the Hot Laboratory, where special devices are used to handle highly radioactive materials; the High intensity Radiation Development Laboratory, where techniques are developed for high level radiation studies; and the new 80-inch Bubble Chamber, the world's largest device of its kind, which detects nuclear in-

teractions resulting from the bombardment of high energy particles from the Alternating Gradient Synchrotron.

In addition, an exhibit hall will contain a display on particle physics research. This display will contain a diffusion cloud chamber and a spark chamber. Other exhibits will be devoted to various aspects of research in the life and physical sciences

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ON-CAMPUS INTERVIEWS NOVEMBER 8, 9

Please contact your College Placement Officer for an appointment. If you are unable to attend the interview, write to: J. J. Krajovic, Director, College Relations, Martin Company, Baltimore 3, Maryland.

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Book Review

'Cookbook' Selections Too Selective

(Continued from Page 13)

Americanism to our Negroes, our war brides, our foreigners and our Scandinavians!"

"These have been a few random samples of quotable length. One might call the book a non-fiction, situation comedy. I wish I had space to quote the hypothetical trial of the FBI or an interview with the head of the HUAC, for example.

Mr. Thompson's style is very pleasant to the reader. The whole book reminds me of a monologue at a cocktail party. The author sounds like he has had three or four martinis. He is quite uninhibited, yet still intelligible and in command of his faculties.

The author's evaluation of himself as found on the book's jacket gave me the impression that he is an egoist with whom I might correspond, but not wish to know personally or to be seen with. The general slant of the text confirmed my first impression. I enjoyed reading his writing and thinking about his arguments, but I would not want him to mold my son's philosophy. Life can be difficult enough without being convinced that one's country is controlled by morons and baboons, even though it may actually be so.

The book is printed with large letters and thick pages. Each chapter is independent of the

others. One may read the sections in any order or burrow straight through. Whether you read this book in a two hour session or in ten minute sections, I predict that Egghead's Guide To America will give you many chuckles and a hearty laugh or two. You will reap no lasting benefits from the book, but it is an extraordinarily pleasant diversion.

THE BACHELOR'S COOK-BOOK by Lee Sheridan, published by The Crowell-Collier Press, 1962, 190 pages, \$3.95.

Mr. Sheridan designed his Bachelor's Cookbook to be a simple, readable cookbook and homemaking guide for the single male. His work is surely satisfying to the bachelor's reading palate, but leaves much to be desired in value as a kitchen aid.

The opening chapters contain good advice on the use and usefulness of numerous kitchen utensils and appliances, as for instance that the space between the handles of kitchen scissors is meant to be used for unscrewing small bottle tops. This section is particularly valuable for the man setting out to furnish a kitchen, but only need be read once in a lifetime.

For those bachelors who find they have women in their castles,

Mr. Sheridan makes special provision.

Outstanding here is the 8-step procedure for converting, in just a few minutes, a messy apartment to one giving a respectable impression.

When one really sets out to cook, however, the real failings in the book appear. For one, the variety of dishes listed is not large. For another, the dishes suggested are not as simple as is desirable. Admittedly a spaghetti sauce with twelve ingredients may be tasty, but surely a simpler one could have been suggested in addition.

And in being selective as to what really basic information to include (or perhaps in trying too much to be humorous), the author made some major omissions. Nowhere, for example, is there a table of weights and measures (which could easily and usefully have been printed on the insides of the bookcover) though there is a discussion as to the difference in size between a "pinch" and a "healthy pinch" of salt.

Regrettably for the whole affair, the illustrations are of an effeminate and childish style, which works against the author's aims.

All in all, rather than the present work the bachelor should have as his cookbook one he would not be ashamed to hand a female visitor, and incidentally this often leads to far superior meals than one can get for himself.

T.B.

Police Seize Bikes Obstructing Sidewalks

(Continued from page 1)

Chief Brennan urged students to lock their bikes securely and park them on the edge of the sidewalk, out of the path of pedestrians.

Free Rides for 'Cliffies

According to the Harvard Crimson, Tierney also plans to crack down on Radcliffe girls who "make a game of trying to stay on the white line in the middle of the road" while riding along Garden St. From now on, claimed Tierney, "Girl, bike, and little green bag are going to get a free ride to Central Square, via paddy wagon".

Kibitzer

(Continued from Page 4)

Answer: a) four spades. This shows a hand good enough to play at any suit on the five level, especially hearts, and is slam invitational. b) four notrump. This is not Blackwood, but shows the same as above.

Puzzler: This week's problem: Convince yourself that there are only four possible distributions of the spades King, Queen, ten, seven and six which can be picked up with the loss of one trick with the hands that North-South held in today's column. What are they? Answer next week.

INTRAMURAL BRIDGE LEAGUE RESULTS:

Grad House over Baker "C."
N.R.S.A. over Chinese Students.
Burton House over Theta Delta Chi "B."
Phi Delta Theta over Theta Delta Chi "A."

Don't forget the two session open pair club championship, Tuesday night, Oct. 23 and 30, 8 p.m., Blue Room, Walker. Approximately 3½ Masterpoints to winners.

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CHESTERFIELD KING

The smoke of a Chesterfield King mellows and softens as it flows through longer length...becomes smooth and gentle to your taste.

Electronic Marvels In Modern Research

(Continued from Page 9)

quickly and accurately check hydrocarbon contamination in the fuel of airplanes and space vehicles. It is also useful in monitoring the amount of automotive gas fumes in the atmosphere, detecting the explosive levels of gases in such enclosed spots as hospital operating rooms and mine chambers, and checking leaks in aerosol containers.

Gaseous Division

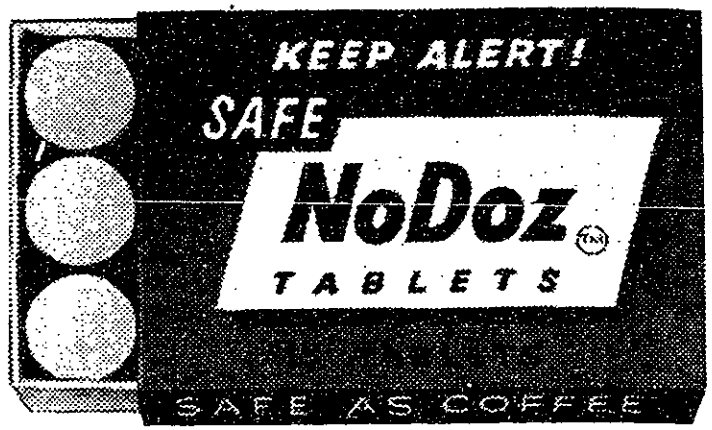
The gas chromatograph recently divided a sample of crude oil into fifty-two separate components in only twenty minutes—compared to the twenty years it previously took a team of chemists to do the job.

The food industry today is using the gas chromatograph to make sure orange juice has the right taste and coffee has the right aroma. The device, for instance, has been used by the Coffee Brewing Institute to discover that coffee aroma is made up of more than twenty components. The amounts in which these twenty components occur determines how the coffee will smell.

Food researchers are now using the gas chromatograph to find out if, and how, pesticides used in growing fruits and vegetables affect the taste of the food. And, by making possible the study of the subtle changes that occur in the breakdown of perishable foods, the gas chromatograph may some day lead to improved ways of preventing food deterioration.

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Personal recognition opportunities	Because Emerson is not a giant, engineers retain their individuality and identity. Projects are assigned to informal small teams. Your work will be recognized and rewarded.
Challenging projects	Emerson is involved in many aerospace, defense and commercial projects: Thermo-lag (heat shield for rockets and satellites), Space radar, Honest John, Infra-red reconnaissance systems, Lasers, aerospace ground support equipment, automatic programmers and evaluators, and adaptive control systems are some of the space and military projects. In the commercial area advanced research is being done in electric motors, lighting, heating, cooling and ventilating products. Emerson's living effects laboratory has achieved national recognition.
Personal initiative encouragement	This is encouraged at Emerson. Facilities are made available to engineers with ideas. Emerson's sales staff sells whatever good ideas are developed by the engineering staff. At Emerson you follow your originated ideas through to finish.
Top salary and benefits	Too much to cover here, but Emerson ranks at the top in both of these categories. Specific information available at interview.
Solid company diversification	Though Emerson is strong in both aerospace and defense projects, the company is solidly based in diversified commercial and consumer products. Emerson is a leader in such products as lighting, heating, cooling and industrial electronics.
Strong corporate vitality	Emerson was founded in 1890. It has a stature that age can bring. But it also has a youthful vitality, vigorous and aggressive—without rigid or restrictive operating procedures.
Good educational facilities	Emerson has in-plant training courses as well as subsidized graduate study at Washington and St. Louis Universities.
Comfortable location	Emerson is located in suburban St. Louis, offering easy access to many housing developments, shopping areas, expressways and recreation. St. Louis itself offers top sports and cultural facilities, as well as a relatively low cost of living.
????????????????	There are other matters that are important to you as an individual—more information needed concerning the points touched on here. Be sure you get the full story on the outstanding potential for you in this fast-moving organization.

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NOVEMBER 2, 1962

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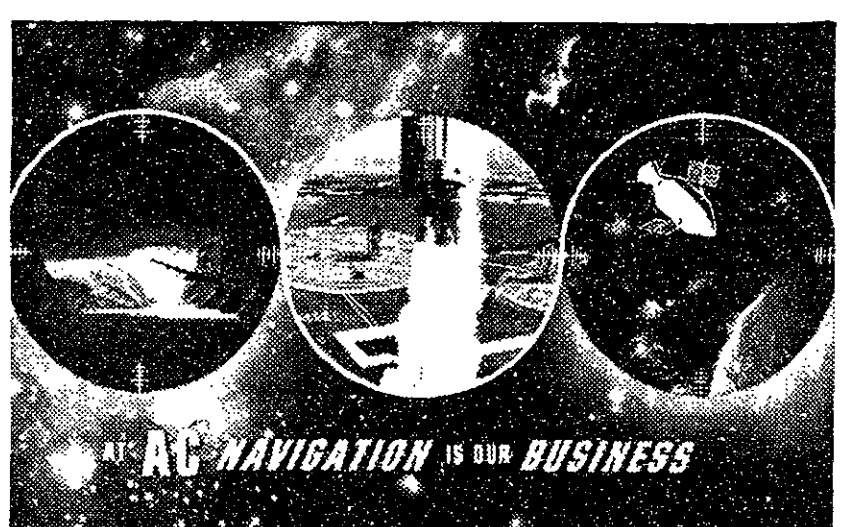
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On Campus Interviews—Wed. & Thurs., Oct. 24 & 25, 1962

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Folk Song Society To Plan Seminars



—Photo by Conrad Grundlehner

Bill Rabkin, Pat O'Neill, and Andy Saulietis, all '64, (left to right) strum away at folk-singing session as unidentified spectators look on.

The Folk Song Society met for the first time last Thursday evening. More than forty people attended. At a short business meeting, the goals toward which the Society will strive were discussed, and the proposed constitution was adopted. Dues were set at one dollar per term.

The Society intends to collect a library of records, books, and magazines, for the enjoyment and instruction of its members. It will arrange seminars in guitar and banjo pickin'. In addition to presenting concerts by the well-known folk musicians, it hopes to provide for a receptive audience to local performers whose fame might not be so widespread, but whose music is certainly worth hearing. The Folk Song Society plans to hold frequent hootenays to enjoy the old favorites, swap songs with each other, and learn a few new ones.

At the hoot which followed the meeting, about a dozen guitars, three or four banjos (one enterprising fellow even built his own banjo), and forty voices kept the Burton House 410 Lounge ringing with song for hours. The next meeting / hoot will be on Sunday, October 28, at 8:30 p.m., again in the Burton 410 Lounge. Anyone even slightly interested in folk music is invited to attend.

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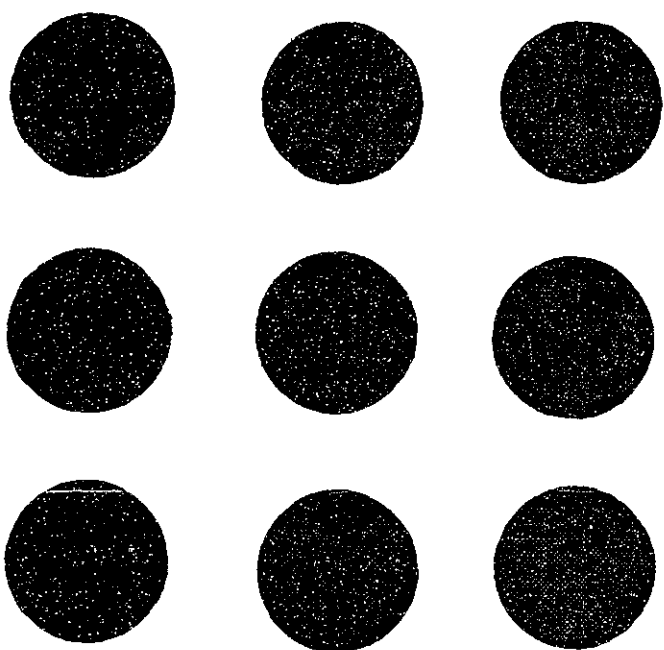
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ENGINEERS— Can you intersect each of these circles using 3 straight lines, without retracing or removing your pencil from the paper?



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We say "our" advisedly.

YOU have to decide which companies to see about your future job. At a time when you've already got more to do than you can reasonably handle, it would be helpful if making that job choice could be done for you by slide rule — or computer.

If it's any consolation, WE are facing much the same problem — from the opposite side of the fence. We've got to make decisions about a lot of young Engineers like

you — also without benefit of slide rule or computer. We must decide who would be of help to us in tackling assignments in today's technologies of the aerospace and electronics industries.

You DO have one advantage we haven't — you probably know something about General Dynamics already. We'd like to even the score a bit by finding out more about you. A discussion might solve both our problems.

Our Representative will be on your campus shortly with information about positions in each of these divisions:

In CALIFORNIA — Convair and Astronautics Divisions in San Diego; Pomona Division in Pomona

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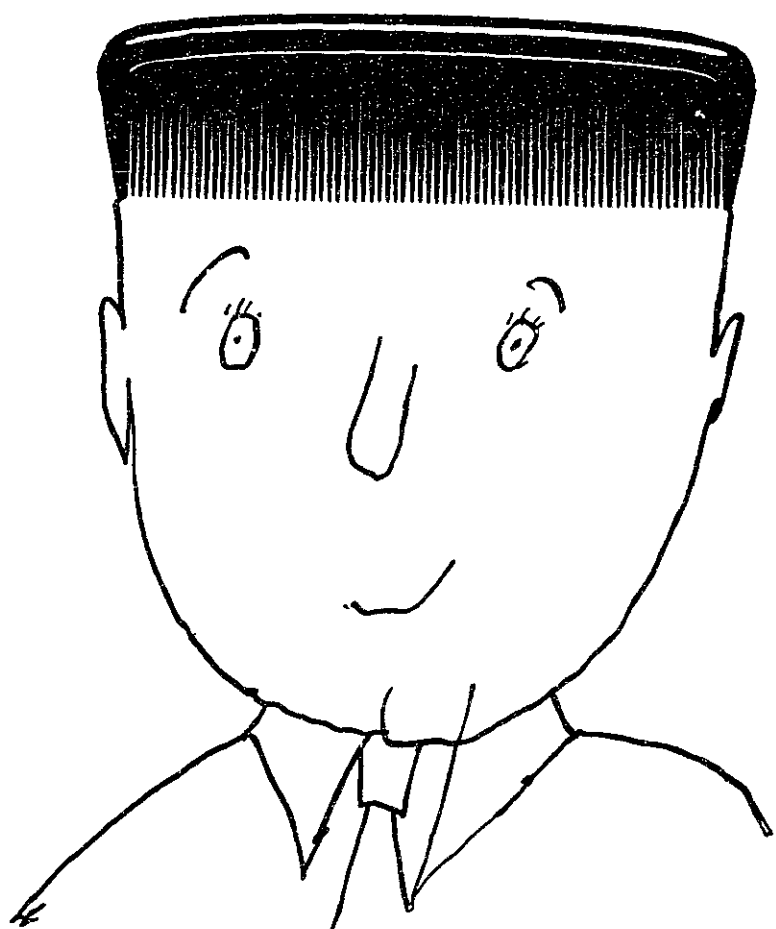
INTERVIEWS AT M.I.T.

TUESDAY, OCTOBER 30

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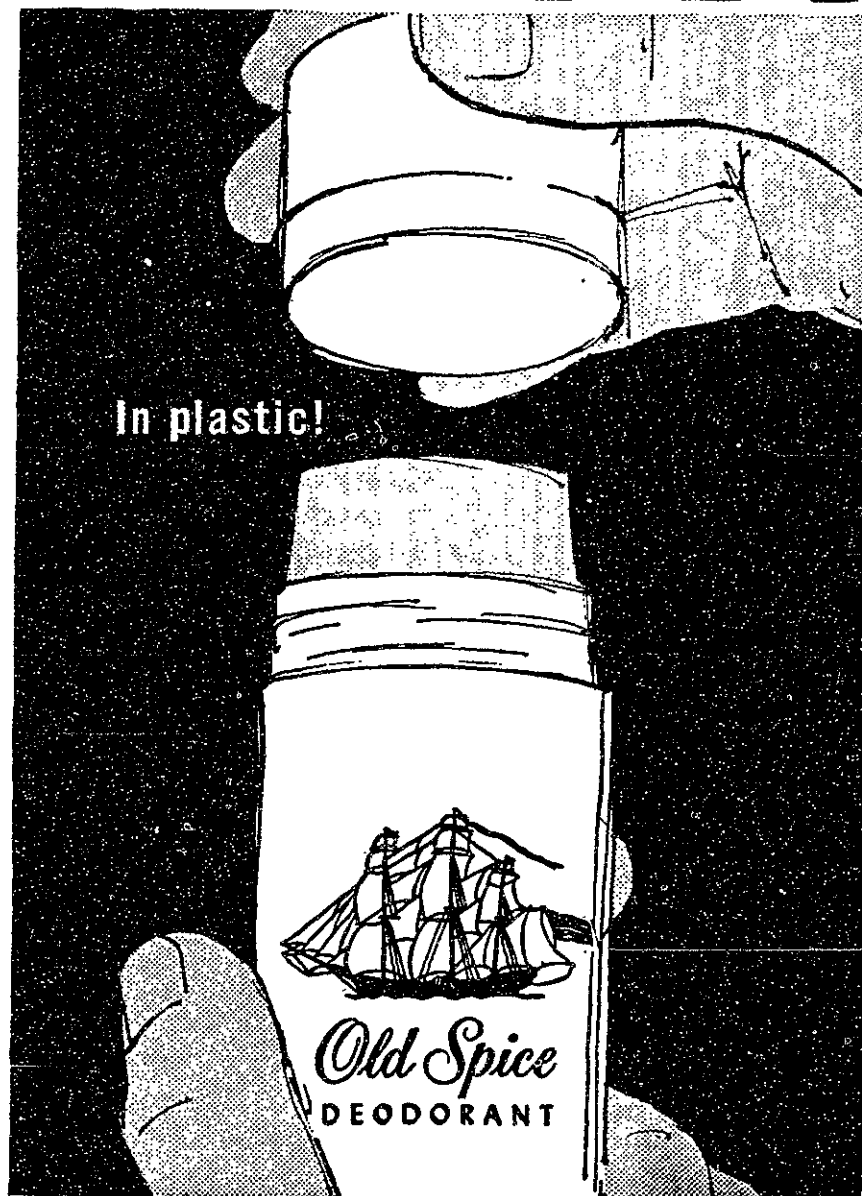
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SHULTON

Fijis, SAE Reach Semi-Final Mark In Intramural Tennis Competition

In four matches played this past week, the intramural tennis tournament approached its closing rounds. Sigma Alpha Epsilon joined Phi Gamma Delta in the semi-final round, with the other semi-finalists to be determined in

IM X - Country Meet Slated For October 26, Run On Trial Basis

This year the intramural council is going to sponsor an intramural cross country meet to be run on a trial basis. The meet will be held on Friday, October 26 at 5:00 P.M. The race will consist of two laps around the athletic fields or slightly less than two miles.

The meet will be run in the same manner as an intercollegiate cross country meet. Teams will consist of five members each with the scoring corresponding to the positions at the finish, the team with the lowest total winning.

Medal will be given to the first three finishers and ribbons to the next ten. In addition a trophy will be awarded to the first place team at the Intramural awards ceremony.

All living group athletic chairmen have the additional details. For further information call Jim Allen, IM Cross Country Manager.

matches played in the next few days.

East Campus, last year's champion, started the week's play with a 5-0 sweep over Tau Epsilon Phi. However, Saturday, October 14, the former champs were decisively upset, 4-0 by SAE. SAE's victory over EC placed them in the semi-finals, and set them up as an important threat in the tourney.

In two first-round matches, played on Wednesday and Thursday, October 10 and 11, Baker A and Baker B won respective 4-1 and 3-2 matches over Club Latino and Phi Sigma Kappa. Baker B will next play Sigma Phi Epsilon for the right to oppose SAE, and Baker A must win its second-round match in order to be paired against PGD in the other half of the semi-final bracket.

Weather permitting, these last few matches will be played during the coming week, and a tournament champion will have been decided by Sunday, October 21.

Cagers Start Practice

Varsity and Frosh basketball practice will be starting by the end of this month under coaches Jack Barry and Art Singal. The varsity began practice on Monday, and the freshmen on November 1. For information contact manager J. M. Blew, extension 3207.

Cagers Begin Practice, 3 Starters Back



Pictured above is last year's record breaking basketball team: Left to right: kneeling; Bill Bloebaum, George Wyman, Steve Smith, Capt. Dave Koch, Chuck Gamble, Tom Burns, Terry Bray, and Jeff Paarz. Standing: Joe Blew, Mal Beaverstock, head mgr., Ed Dreiss, Kent Groninger, Don Alusic, Bill Eagleson, Jack Moter, Bill Weber, Mike Simpson, Dick Lipes, Jack Barry, coach, Gary Ragnard, asst. coach.

By J. M. Bleu III

MIT's varsity basketball team, with three returning starters, began this week in preparation for the season's opener. The varsity coach, Jack Barry, is now in his fourth year at MIT and last season was selected New England Coach-of-the-Year. The team is looking forward to possibly extending the 15 game win streak, currently third longest in the collegiate ranks. Co-Captain Jeff

Paarz '63 averaged 115 points per game last season, and is an excellent corner man. Paarz shot the winning bucket in Tech's 73-71 double-overtime win over New Hampshire last January.

Co-Captain Kent Groninger '63 is a defensive standout and a fine ball handler. Groninger broke open last year's final game, against Chicago, with a steal and a three-point play early in the second half.

Three Juniors Return

Although the graduated trio of Dave Koch, Chuck Gamble, and Tom Burns will undoubtedly be missed, much of the slack should be taken up by three junior lettermen.

Bill Eagleson '64, 6'5" center, and last of the returning regulars, averaged 13.0 points per game last year and led the returnees in rebounding. Jack Moter '64 (6'5") and Don Alusic (6'3") saw only limited action in '61-'62 but will be counted on heavily by Coach Barry this season.

Frost To Start Nov. 1

While perhaps overshadowed a bit by the spectacular varsity, last year's freshmen compiled a fine 8-5 record. Frosh coach Arnie Singal announces that freshman practices will begin November 1 at 5:00 p.m. in the Armory.

At least three of last season's freshmen backcourt men should win varsity berths: Bob Grady led frosh scorers with a 20.4 average, including a 40 point performance against Tufts. Frank Yinn and Perry Seale also show fine potential.

Front court support will be provided by Sophs George McQuilken (6'4") and Jon Hanson (6'5").

Schedule To Be Announced

Next week's THE TECH will announce the schedule of varsity pre-season exhibition games.

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Frosh Sports

Harrier Tops Mark, Soccermen Edged

Frosh cross country sensation Sumner Brown set another record Saturday as MIT with 37 points finished second in a triangular meet against Springfield (30) and Williams (55). In winning his third consecutive race Brown covered the hilly Williams freshman course in 14:23.8. Rob Wesson again finished 2nd for the Engineers and fifth overall. The other Techmen who placed were Ken Caneva, John Ribel, and Billy Friedman. Monty Gra-

On Deck

Saturday, October 20
Cross Country (V) — New Hampshire: Away; 2:30 p.m.
Cross Country (F) — New Hampshire: Away; 2:00 p.m.
Golf (V)—ECAC Finals; Away; at Bethpage.
Sailing (V) — Fowle Trophy Eliminations; Away; at Coast Guard.
Soccer (V) — Amherst; Away; 1:00 p.m.

Soccer (F) — Harvard; Away; 3:00 p.m.

Sunday, October 21
Sailing (V) — Fowle Trophy Eliminations; Away; at Coast Guard.
Sailing (F) — Heptagonal; — Away; at Tufts.
Monday, October 22
Soccer (F) — Belmont High School; Home; 3:00 p.m.

ham started the race, but the recurrence of a leg injury prevented him from finishing. The harriers have one race on the schedule for this week, a Saturday afternoon affair at the University of New Hampshire. Soccermen Edged The freshman soccer team dropped two contests during the week, but showed marked improvement, especially in Friday's 4-3 defeat at the hands of Tufts. Outplayed in the early stages of the game, the Engineers found themselves behind 3-0 midway through the 3rd quarter. At this point the Little Beavers, led by acting captain Tomas Van Tienhoven began a spirited comeback. Van Tienhoven, who has sparked throughout the season, set up plays brilliantly as MIT rallied to tie the score. The goals were scored by Carson Eoyang, Vic Fung, and Richard Ho.

Frankel Halts Scoring

During the surge the fine goal tending of Bob Frankel kept Tufts from scoring. Late in the game, though, the visitors succeeded in pushing across the winning tally.

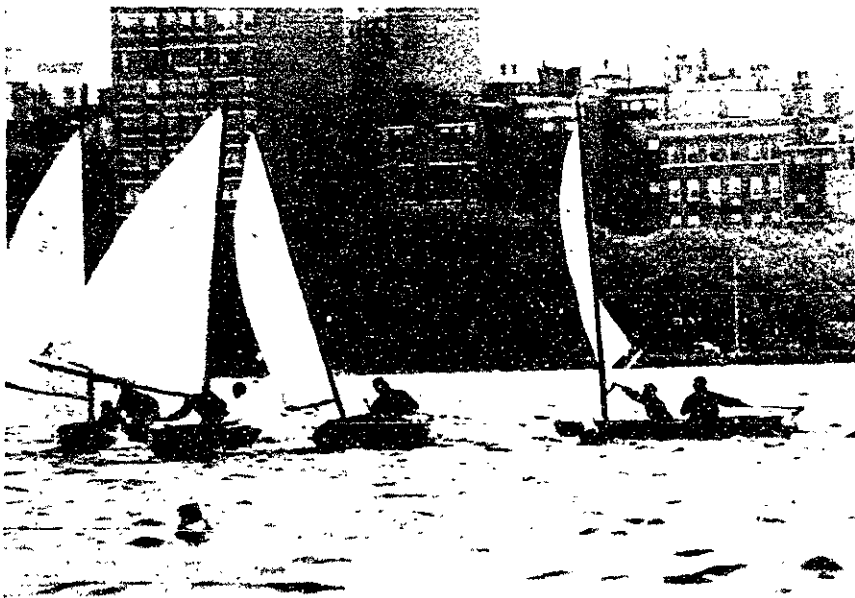
Last Wednesday the Techmen lost to Andover, a perennial prep power, by a 7-1 count, with Van Tienhoven scoring the only tally.

Cronburg, Smullin Skipper

Saturday, the Little Beavers meet the Harvard Frosh.

MIT's freshman sailors finished fifth in an octagonal race Sunday. The consistently strong Schools Sailing Club won the event held at Brown University.

Sailors Edged By Harvard For Oberg, Wood Trophies



Tech Crews vie for positions in Saturday action on the Charles where Harvard came along to win the regatta and take home the Oberg Trophy. MIT finished third. (Photo by Mark Barron).

The sun finally shone over the Charles this past fall weekend. But, as far as the Tech sailors could see, it shone only crimson. The fact is, Harvard sailors won both the Oberg and Wood trophies on Saturday and Sunday respec-

tively. In both events the Tech sailors finished third. For the Oberg trophy, which is open only to inter-Boston-collegiate competition, seven teams took part: B.C., B.U., Harvard, M.I.T., Babson, Tufts, and Northeastern. The score was Harvard 143, Babson 124½, M.I.T. 122½. Sailing for Tech was Ken Klare '63, Mike Lifschitz '63, and Fred Kern '65. This time even Klare had his troubles on two unfortunate starts; and he yielded top point skipper spot in division and meet to Kelley of Babson (one of the crew on Weatherly this summer). Lifschitz and Kern were third in their respective divisions.

The Sunday sailing against Harvard, Coast Guard, and Dartmouth for the Wood trophy was just as unpleasant for Tech. Klare, Walt Dence '63, Dave Hoover '63 and Fred Kern were co-skippering. The standings were Harvard 94, Coast Guard 84, M.I.T. 76, and Dartmouth 51.

IM Wrestling Contests Set For October 26-27 Rosters Due Oct. 20

The Intramural Wrestling season is approaching, and this year promises to provide some of the most exciting competition in the history of the tournament. All rosters must be turned in by Saturday, October 20, to IM manager Bob Wells. Many living groups have already entered two or more teams.

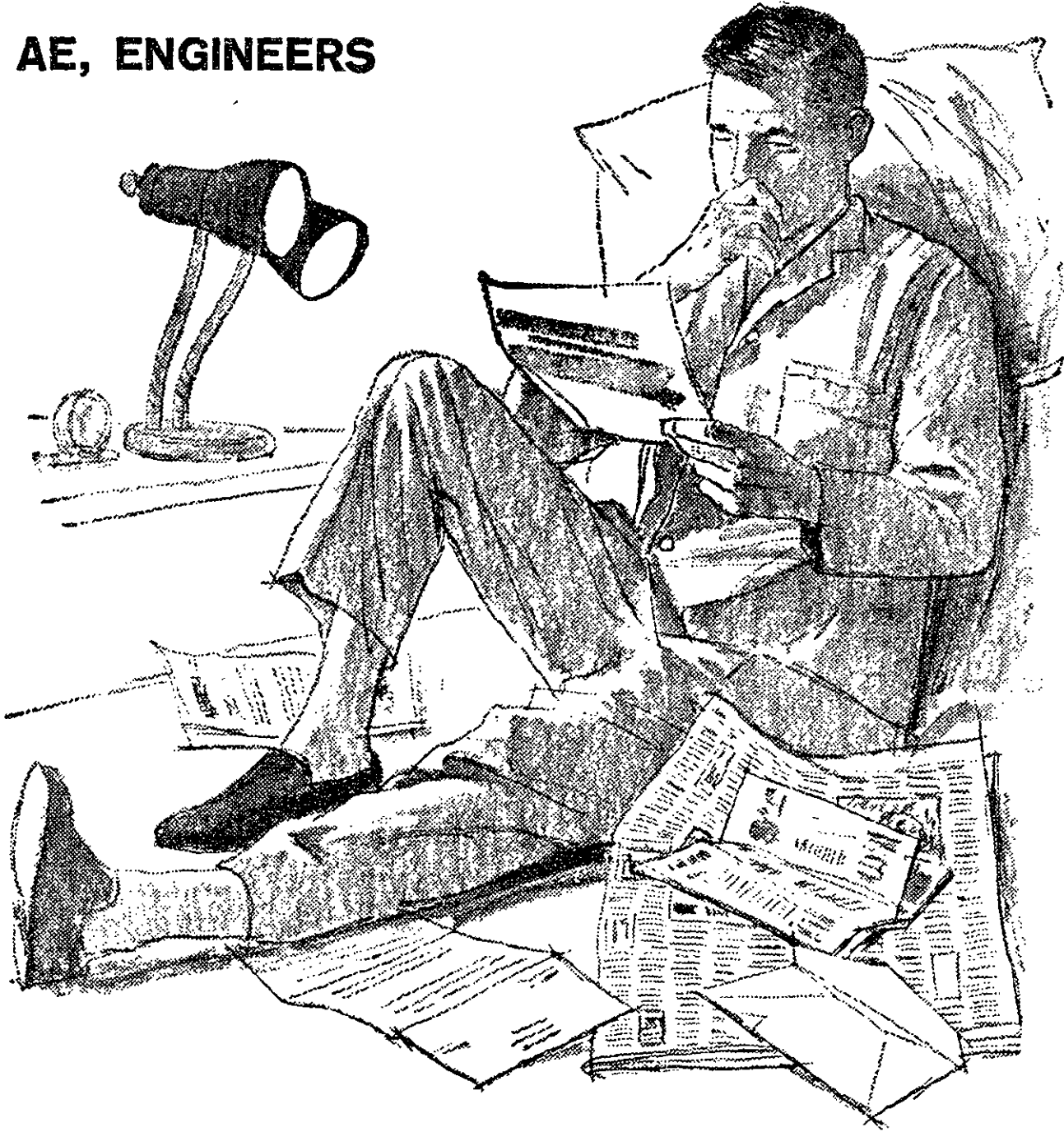
Matches To Begin Oct. 26

Matches will take place on the evening of October 26 and the afternoon of October 27. They will be run in double-elimination bouts in nine weight classes: 120, 127, 133, 140, 147, 157, 167, 177, and unlimited. Weigh-ins will be held from four to six o'clock Friday afternoon, October 26. A wrestler must be on or below the maximum for his weight-class at the time of the weigh-in to qualify for that weight class.

How They Did

- Cross Country
Springfield 15 — Williams 56 — MIT 71
Springfield (F) 30 — MIT (F) 37 — Williams (F) 55
- Golf
MIT places 8th out of 12 in ECAC qualifications
- Rugby
Dartmouth 9 — MIT 0
- Sailing
Harvard 143, Babson 124½, MIT 122½
Harvard 94, Coast Guard 84, MIT 76
- Soccer
MIT 1 — Tufts 0
Tufts (F) 4 — MIT 3
- Tennis
Aaesnaes wins singles championship of N.E. ECAC

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Aasnaes Takes Net Title, MIT Second In Tourney

By John Reintjes

Bent Aasnaes, '63, topped Harvard's Paul Sullivan in two out of three sets Thursday to become the singles champion of the New England division of the Eastern Collegiate Athletic Conference Tennis Tournament. Tech placed second in a field of six teams.

Aasnaes Defeats Sullivan

Aasnaes met Chauncy Steele III, of Harvard, in the singles semifinals last Tuesday. The bad weather forced this match indoors but did not affect Aasnaes's playing. He scored a 12-10 victory to earn the right to meet Sullivan in the finals. Two days later, Aasnaes and Sullivan squared off on the Tech courts. The players were evenly matched in the first two sets, Aasnaes winning the first by a score of 6-3 and Sullivan taking the second, 6-4. In their third set, Aasnaes came back to win the match and the championship with a 6-4 victory.

In the doubles finals, Tech and Harvard met again. However, the Harvard team won this one, devere 6-2 and 7-5. This victory gave Harvard a one point edge feating Aasnaes and Jack Moter, '64, in two sets. The final scores over Tech in the overall standings.



Bent Aasnaes shows form which led him to the New England ECAC singles Championships.

Aasnaes Plays in Finals

Aasnaes goes to Princeton next Saturday, to represent Tech in the singles competition at the final rounds of the ECAC Tournament. These rounds will include competition with the winners of the other three divisions of the

conference. Moter will also go along to join Aasnaes in the doubles matches. These matches, slated for Saturday, October 20 and Sunday, October 21, will determine the winner of the entire tournament.

Aasnaes won his first match in the qualifying round in Cohasset Saturday, October 6. Because of rain, this match was played indoors in the Cohasset squash and tennis courts. In the first round, Aasnaes defeated Ron Massey of the University of Connecticut by a score of 12-2. Aasnaes became the only Tech entry left in competition when Marty Ormond, '64, was beaten by Sullivan, 12-2.

Previously, Aasnaes and Moter bowed to the Harvard team in the doubles finals. They had one victory to their credit. In their first match, which was also played indoors, Aasnaes and Moter score a 12-3 victory over Ray Sauer and George Gray of the University of Rhode Island.

Aasnaes Norwegian Champion

Bent Aasnaes teamed with a fellow countryman to win the 1962 Norwegian Doubles Championship this past summer. "Aasnaes is a definite potential Davis Cup candidate in the very near future," says ECAC tournament director and coach Ed Crocker.

Tufts' Goalie Prevents Romp

Soccermen Edge Tufts 1-0, Meet Amherst Saturday

By Neal Harvey

MIT's soccer team maintained its winning streak last week by downing a strong Tufts team, 1-0, on Tufts home field. The Engineers' lone goal was scored midway in the first period by Jim Tang, '63, during some fast action in front of the Tufts goal. Saturday, MIT meets a strong Amherst squad.

MIT's superior forward line controlled the play from the start and maintained possession of the ball for almost the entire game. However, the score was kept down by an excellent zone defense set up by the big Tufts backfield. The Tufts goalie also had a busy afternoon making a total of 24 goal saves out of Tech shots.

Backfield Stymies Tufts

The Engineers' backfield performed an excellent job bottling up the Tufts offensive attack. They rarely allowed the ball to enter our penalty area, and goalie Peter Svahn, '63, only stopped 5 shots. The only serious drives on our goal came in the third period

before our backfield caught its second wind.

Tang Leads Tech Scoring

This was the third goal in as many games for Tang who now leads the MIT scoring. He is followed by Bob Mehrabian, '64, who has two goals for the season. Bob was one of the leading scorers in New England last year with a season total of 13.

A week ago Tuesday, the Engineers traveled to W.P.I. and took their second game by a score of 4-2. Tang and Mehrabian shared the scoring honors with two each.

Trinity Game Canceled

The game slated with Trinity for a week ago last Saturday was rained out and the two teams will not meet this year due to rescheduling conflicts.

Yesterday, the Techmen met Brandeis on their home field and will journey to Amherst this Saturday. The Engineers scored a 4-3 upset over Amherst last year and hope to make this a repeat performance.

SAE Win IM Football Title Betas, DU, Lambda Chi,

By Ken Suelthaus '66

League championships were decided this weekend as leading teams clashed in hard-fought IM football contests. The top intramural crown has as yet to be decided, however. The semifinals and finals in the next two weeks will yield a victor from among Beta Theta Pi, Delta Upsilon, Lambda Chi Alpha, and Sigma Alpha Epsilon. Competition in these coming games is expected to be keen.

The steady, running offense and tight defense of Beta Theta Pi helped them win in League I. Strong opposition from Phi Delta

Theta was hampered by several dropped TD passes. In a game where tempers flared, the final score was Betas 13, Phi Deltas 7. Tallying for the winners were Tony Aldrich, graduate, Harold Branson, '63, and Kent Groninger, '63. Graduate House beat Baker House 37-0 in the other League I contest.

Repeating as League II champs was Delta Upsilon who smashed Phi Kappa Theta 25-0. All scoring was done in the first quarter by Jeff Paarz, '63, with 12 points, Pat Dawe, '63, with 7, and Jim Allen, '64, with 6. Paarz ran the opening kickoff for a DU touchdown. Play during the second half was marked by rugged defensive action led by the superb line-play of Ken Suelthaus, '66, and Kim Sloat, '64, with neither posing any real threats.

Dominating League III this year was Lambda Chi Alpha. The Lambda Chis took off to an early lead over Delta Tau Delta on a 25 yard pass from Dave Sikes, '63, to Bob Pasquale. The Deltas came back to tie on a Bill Dreiss, '64, to Jack Downie, '64, pass. Despite this effort, the Lambda Chis went on to take it 12-8 when Bob Beach, '62, grabbed another Sikes pass. Sigma Phi Epsilon won the other game in League III defeating Theta Delta Chi 33-0.

The close race in League IV was climaxed in a 16-12 Sigma Alpha Epsilon victory over Phi



Theta Delta Chi's Terry Chatwin '63 heads toward goal line as Sigma Phi Epsilon defenders Mike Romney '66 and Steve Hestor '63 (far right) are in hot pursuit. Theta Delta's Bill Vachon '63 places key block on left to give Chatwin a wide open field. TDX went on to win the contest 33-0. (Photo by Mark Barron).

Gamma Delta. Tough defense by both teams kept the outcome of this thriller undecided until the very end. Then, with only two minutes remaining, a blocked punt set up the final SAE score. Two safeties and touchdowns by Bill Bails, and Bill Lenoir, accounted for the SAE points. Theta Chi ended its season with a triumph over Burton House 20-0.

League titles in Division B were captured by Alpha Tau Omega, Alpha Epsilon Pi, Zeta Beta Tau, Graduate House Dining

Staff, Delta Kappa Epsilon, and Sigma Alpha Mu.

DIVISION A

League I	League II	League III	League IV
Beta Theta Pi 13, Phi Delta Theta 0	Delta Upsilon 25, Phi Kappa Theta 0	Lambda Chi Alpha 12, Delta Tau Delta 8	Theta Delta Chi 33, Sigma Phi Epsilon 0
Grad House 37, Baker House 0	Lambda Chi Alpha 12, Delta Tau Delta 8	Theta Delta Chi 33, Sigma Phi Epsilon 0	Sigma Alpha Epsilon 16, Phi Gamma Delta 12
			Theta Chi 20, Burton House 0

DIVISION B

League V	League VI	League VII
Alpha Tau Omega 26, Nuclear Eng. 0	Tau Epsilon Phi 6, Phi Kappa Sigma 0	Alpha Epsilon Pi 7, Walker Dining 0
		Phi Sigma Kappa 7, Phi Lambda Phi 0
		Phi Mu Delta 6, Phi Beta Epsilon 0

Zeta Beta Tau 18, Student House 0	League VIII	Grad House Dining 8, Sigma Nu 6
	League IX	Senior House 7, Theta Xi 0
	Delta Kappa Epsilon 19, Senior House 0	Delta Kappa Epsilon 25, Sigma Alpha Mu 12
	League X	NRSA 7, Kappa Epsilon 7
FINAL IM FOOTBALL STANDINGS		
League I		
Beta Theta Pi	W 3	L 0 T 0
Phi Delta Theta	1	1 1 1
Grad House	1	1 1 1
Baker House	0	3 0 0
League II		
Delta Upsilon	3	0 0 0
Sigma Chi	1	1 0 0
East Campus	1	1 0 0
Phi Kappa Theta	0	3 0 0
League III		
Lambda Chi Alpha	3	0 0 0
Delta Tau Delta	2	1 0 0
Theta Delta Chi	1	2 0 0
Sigma Phi Epsilon	0	3 0 0
League IV		
Sigma Alpha Epsilon	3	0 0 0
Phi Gamma Delta	2	1 0 0
Theta Chi	1	2 0 0
Burton House	0	3 0 0
League V		
Alpha Tau Omega	3	0 0 0
Phi Kappa Sigma	1	2 0 0
Nuclear Eng.	1	2 0 0
Tau Epsilon Phi	1	2 0 0
League VI		
Alpha Epsilon Pi	3	0 0 0
Phi Sigma Kappa	2	1 0 0
Phi Lambda Phi	1	2 0 0
Walker Dining Staff	0	3 0 0
League VII		
Zeta Beta Tau	3	0 0 0
Student House	2	1 0 0
Phi Mu Delta	1	2 0 0
Phi Beta Epsilon	0	3 0 0
League VIII		
Grad House Dining	2	0 0 0
Sigma Nu	1	2 0 0
Chi Phi	0	3 0 0
League IX		
Delta Kappa Epsilon	3	0 0 0
Senior House	1	2 0 0
Theta Xi	0	3 0 0
League X		
Sigma Alpha Mu	2	1 0 0
NRSA	1	1 0 0
Kappa Sigma	1	1 0 0

Cross - Country Squad Falls To Springfield; Frosh Run Strongly

By Mike Oliver

MIT's varsity cross country runners fell before mighty Springfield and Williams last Saturday. In cross country where low score wins, Springfield had 15, Williams 56, and MIT 71. The first Tech hill and dale man to cross the finish line was co-captain Roger Himrichs '63, followed closely by Chuck Sigwart, '64. Close behind these two were Dick McMillin, '65, Tom Goddard, '63, and John Dressler, '64.

Springfield, this year rated the strongest team in New England, lived up to its reputation as the first five finishers over the four mile course were wearing Springfield jerseys.

Brown Breaks Record

For the freshmen, Sumner Brown, '65, again topped a course record for the second meet in a row as he cut the freshman course time at Springfield. With Brown's outstanding performance and fine back-up strength from Rob Wesson, John Rible, and Bill Friedman, the frosh came quite close to the Springfield frosh. The final score was Springfield 30, MIT 37, and Williams 55.

Varsity Opposes Brandeis

Yesterday the varsity ran against Brandeis, and Saturday both the varsity and freshmen face the University of New Hampshire.

Fiji's Lead IM Sailing, NA Races End

Last week was the biggest week of the Fall for inter-MIT sailing competition. Tuesday and Thursday the Sailing Pavilion was the scene of the final regattas of the fall intramural season in which Phi Gamma Delta again showed their superiority; and Friday, Columbus Day, the annual competition among the Nautical Association members for the Vose, Nickerson, and Smith Trophies took place.

In the intramural competition, Sigma Chi, under the helmsmanship of Mark Hanson and Kym Byrd caused a stir of excitement when they cut the defending champion Fiji's lead down to

one point from their previous nine-point lead of the past week. But this was in heavy weather where in Sigma Chi seems to thrive. Light weather was the word on Thursday; and once again the Fiji's under skippers, Hastings and Strong, slipped away to a comfortable final lead of nine points.

Throughout all this Sigma Chi-Fiji struggle, SAE continued to sail a solid third, ending up with in striking distance five points behind Sigma Chi. Everything points to the fact that when this regatta ends up next spring, it

should be exciting. Until then the final standings are:

	Pts.
1. Phi Gamma Delta	132
2. Sigma Chi	123
3. Sigma Alpha Epsilon	118
4. Student House	93
5. Burton House	85
6. Sigma Phi Epsilon	79

In the Nautical Association competition in which eleven boats took part, Ken Klare '64 easily won the Vose cup for competition among varsity and JV lettermen. The Nickerson trophy for undergraduates holding no letters went to Don Schwan. And the Smith cup for grad students went to P. Beamish.

Second class postage paid at Boston, Massachusetts. The Tech is published every Wednesday during the college year, except college vacations, by THE TECH, 300 Massachusetts Avenue, Cambridge, Mass. Telephone: 4-6800. Extension 2131. U. S. Mail subscriptions \$2.75 for one year, \$4.25 for two years.