

## New VooDoo Meets Favor Of Dean As Plans Are Made For Next Issue

The first issue of the new *Voo Doo*, which came on the stands last Friday the Thirteenth, has been deemed thoroughly acceptable by Dean Rule. In a statement made on the day of publication he said that he enjoyed the magazine as it now stands, and that even the new joke policy was a sign of healthy satire. This policy was the printing of two jokes, each repeated twice, concerning the restrictions imposed upon the content of *Voo Doo*. Dean Rule said that he had hoped that *Voo Doo* would delay publication prior to this issue to allow them to recruit additional literary and artistic talent, but that they had managed to put out an interesting issue this month.

### Sales Remain Even

When asked about sales of this issue, Vigdor Teplitz '58, Editor of

*Voo Doo*, said that sales were running close to the expected average for the Christmas Issue. The effects of the publicity given to the magazine by the investigations of Inscomm and the Dean's office seemed to balance each other out. On the one hand, a number of sales were made to people who were interested in seeing what effect of the new rulings would be; however, a number of possible sales were lost on the basis of the possibility that the magazine was not worth buying under the new restrictions.

Teplitz said that *Voo Doo* is going right ahead with plans for publication of the next regular issue. It will be written along the same lines as this month's issue, with the exception of the editorial and the open letter. There will be a liberal supply of jokes in the magazine once more, and there is a possibility that the color plates in the centerfold may be eliminated. The details of policy, Teplitz explained, are still being settled.

He also explained the meaning of the final cartoon in the December issue, which showed Phosphorous, *Voo Doo*'s office cat, trudging away in a series of spotlights, as in the well-known "Jimmy Durante exit". This cartoon did not mean that *Voo Doo* was folding up and making its exit, but rather that the spirit of *Voo Doo*, as symbolized by Phosphorous, was in the spotlight at present.

### Publications Council Suggested

Dean Rule repeated his suggestion that an alumni advisory board, to be called on when the publication sees fit, would be a useful institution. *Voo Doo* has been in touch with Dean Rule, Professor Hartley's Committee on *Voo Doo*, and Prof. Norman Holland '47, who was on the managing board of *Voo Doo* ten years ago.

## Faculty To Vote On Deleting Cum

by Jon Wigert

On January 19, the faculty will decide whether or not to change the present marking system. The Faculty Committee on Academic Performance headed by Professor Leicester Hamilton of the Chemistry Department will submit its recommendation at this time.

The expected change in the marking system will hinge around the controversial term rating and the related cumulative rating, which have been the subjects of much recent discussion by both students and faculty. Last year, SCEP, the sub-committee of Institute Committee on educational policy, undertook to resolve the question of what is the best scholastic rating. The findings appeared in the spring of 1956.

The sub-committee, working on the assumption that too much emphasis is laid on the cumulative rating and term rating, saw that there was a need for such marks. This necessity they felt was due to the need for a method for determining scholarship receipt, professional ability, and drunk outs, as well as the Dean's



PROFESSOR LEICESTER HAMILTON

list and individual standings with the selective service.

The committee's recommendations to Institute Committee were: to de-emphasize the cumulative rating and term rating, and to delete both from the student's semester reports. But they also recommended that the present ratings still be kept on file in the Dean's office, this for want of a better system.

Allen Bufferd '59 and Bob Jordan '58 comprised the special sub-com-

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## Fraternities Due For Rule's Investigation As Dormcon Prepares Open House Report

There will definitely be a change in the present open house system in the dormitories, according to Dormitory Council President Bob Hecht '58, Dormcom Secretary Gerald Stephenson '59, and Dean Rule.

Following a meeting of Dormcom last night, the special committee on investigation of open house hours met and discussed a rough draft of a report prepared by Stephenson. The actual report, as approved by Dormcom, to be submitted to the Faculty, Administration, and Corporation, will be prepared in the near future.

The report was made from discussions with Deans Rule and Fassett, house presidents, and deans of local girls' schools. These girls' deans felt that the major problem involved was not simply the hours, but the fact that it was impossible to reach the girls once they were in the dorms. This problem could be solved by institution of regular sign-in lists for guests.

This recommendation was discussed last night. However, the problem of what hours to recommend was not settled due to lack of agreement on details. Other suggestions, such as requiring doors on rooms to be kept open when guests are present, were discussed and dropped.

### Jurisdiction of Dormcon

Dean Rule said that the decisions reached in Dormcom's report will be subject to review by both Institute Committee and the Administration. He said that a final decision will be reached by mutual agreement between representatives of all sides concerned. Although the Administration has the right to impose what rulings it likes on dormitory, it is hoped that a compromise can be reached which will be satisfactory to all.

## Our Nation's Defense

### Draper Says U.S. Guessed Wrong



PROFESSOR C. STARK DRAPER

The U.S.S.R. has "taken several free laps around the track with no running competition from the U.S." in the race for the first reliable ICBM, says Professor of Aeronautical Engineering, C. Stark Draper, who heads MIT's Instrumentation Laboratories. However, we can still catch the Soviets and finish first, "if we're not killed first", says Dr. Draper.

"This country guessed wrong in 1945, when it (decided to concentrate on) heavy bomber development and ignore Russia's interest in missile experimentation. I still don't understand why that decision was made," says Dr. Draper, "but then I'm not a politician, but simply a man with work to do."

More specifically, Dr. Draper holds that the work necessary to regain the lead in the missile race will have to be done here and now—and this means that he and his contemporaries throughout the country will be the ones to do it. "We can't fix this situation by changing our high school program," says the professor. He added that the effects of such a change would not be felt until those high school students who had experienced it had become engineers, requiring about five years' time on the average. The work, he emphasized, must be done now.

Contrary to much popular opinion, the necessary kind of work is not basic research but engineering, according to Dr. Draper. "I believe our basic research is equal to that of the Soviets, but we are behind in the application (of that research)," he says. Too often we lay a burden on the scientist's shoulders which belongs on the engineer's. "If our engineers will work overtime, we can, perhaps, reach the Russians' present level of development in two years," says Dr. Draper.

But despite some bleak aspects of our situation, we are not behind in all fields connected with defense. If we can extrapolate from recent historical fact, we probably still lead the Russians in inertial navigation and fire control systems, since Dr. Draper recalls that our F-86 Sabre jets, equipped with the MIT-developed A-4 fire control system, shot down

(Continued on page 6)

## Toward Quasi-Fraternity Spirit

### Study Housemaster Plans

The administration is strongly considering placing housemasters and resident tutors in the dormitories in the near future. The movement toward this has gained strength ever since the meeting of the Corporation Committee on October 6 with dormitory leaders. As it stands, the system would involve assigning junior faculty members to live in the halls of the dormitories, and participate in the activities of the residents. The Dean's office sees three distinct advantages to this system:

1. By fostering contacts, supervision, and organization, it will make dormitory living more enjoyable.
2. It will provide an economic basis for house purchases of food, services, etc.
3. It will provide closer control over student activities in dormitories.

### Loyalty Structure Desired

The effect of this system, according to Dean Rule, will be to attain a "loyalty structure" within each house. It will implement one section of the Ryer Report in establishing a quasi-fraternity spirit in the dormitories.

The purpose of implementing such an attitude with housemasters reflects on the basic purpose of the Institute. Dean Rule stated this as follows: "The chief purpose of the MIT is educating young people to be, not only good engineers and scientists, but good citizens with high standards." He feels that anything in a bad light, such as the December Is-

sue of *Voo Doo*, or certain abuses of open house hours, detracts from this purpose. Part of this bad light lies in the view of observers outside the Institute, and part as abuses of the education offered here.

Referring to the present open house hours situation, Dean Rule said, "MIT should not go beyond the normally accepted practices of the community." He stressed that the goal of MIT is not conformity, but comportment with the standards of the community. The Institute should not be in a situation in which it is open to criticism in the case of any trouble arising.

### Policy Remains Liberal

According to the Dean, the policies of the Institute have been, and always will continue to be, very liberal. As regards the present concern of the Administration concerning liberality of open house hours, and literary taste in *Voo Doo*, there are two outstanding reasons for the increased supervision. One reason is the opinion of people outside the Institute, now that MIT is looked to as one of America's leading educational institutions.

Another is the fact that most of the liberality which had been prevalent in the Institute in past years was a recent addition, due to the influence of veterans immediately following World War II. In cutting back on the liberalities, Dean Rule says that the Institute is returning to its accepted pre-war standards.

Dwight C. Arnold '27, chairman of the Corporation Committee which first asked for the investigation into Open House hours, said Sunday night that the dormitories are very much out of line with the standards of the community. He feels that, after a thorough investigation of the open house situation in the dorms, it would be advisable to undertake a study of this same situation in the MIT fraternities.

### Fraternity Open House Hours

Mr. Arnold communicated this plan to a recent meeting of fraternity alumni advisers. No pressure is now being applied to the IFC to act upon this recommendation, according to IFC President Bob Jordan '58. It is felt, though, that a uniformity in the parietal rules would be desirable.

If such action were taken, the IFC would investigate the situation, as Dormcom is now doing. The findings of IFC would be binding with the consent of the individual houses, according to Dean Rule. The Administration could set the rules for fraternities as well as dormitories, but doing so would be totally out of keeping with the Administration's past attitude to fraternities.

## Financial Handbook Explains Economics Of MIT Operations

A neatly worded twenty-four page booklet, outlining "some of the factors affecting the cost of an undergraduate education" at MIT, went into the mails today, headed for all undergraduates and their parents.

The issuing of the booklet is generally regarded as an effort on the part of the administration to regain the goodwill of that segment of the student body which was alienated by the abrupt announcement, last February, of a rise in dormitory rents. The protest against that announcement eventually took the form of demonstrations along Memorial Drive at which twenty-nine students were arrested. Students who received advance copies of the booklet also see it as a symbol of the administration's determination to keep the student body more fully informed of the operational set-up at the Institute.

Topics covered in the booklet include: tuition, student aid, dormitory rentals, dining services, and alumni support. Two pie graphs and a brace of bar graphs support the text.

One pie in particular shows MIT's 1956-57 income from dining and student housing to be nine per cent of the total income. Another pie gives the corresponding expense—ten per cent (of the expense total).

One administration spokesman calls the booklet a "financial primer".

(Continued on page 3)

**SECOND TERM REGISTRATION MATERIAL**

All regular students may obtain registration material after presenting their registration certificates in the Building 10 Lobby on Tuesday, January 7, from 8:45 a.m. to 4:30 p.m. After this date, material must be obtained at the Information Office. Special students and students entering their graduate year may obtain registration material from the registrar's office after application has been approved by the admissions office.

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it could have been. It far outshone the voice in the aria "The Trumpet Shall Sound"—not that it should or actually did but the audience seemed much more interested in it than in Mr. Matthen's "rendition". In several arias the orchestra lagged the soloist as much as two beats, particularly in the soprano aria "I Know That My Redeemer Liveth". And one last remark on the orchestra. It was much too weak for the chorus: for example there is an orchestral solo in the "Amen" Chorus after which the choir enters fff. Really, the orchestra sounded anemic compared with the magnificent chorus.

Poor, unexciting climaxes were your reviewer's chief criticisms of the chorus. Although fantastic attacks, diction, and balance pervaded all of the chorus work, and the bell-like quality of the soprano (especially on the high A in "And the Glory . . .") was literally ethereal, your reviewer felt somewhat disappointed. So much can be gained through the discreet use of crescendo and decrescendo.

Miss Boatwright, as I have said time and again, is an artist of the first magnitude. A crystal clear voice, combined with marvelous control made her arias noteworthy. Your reviewer is sorry to say that he cannot report the same of the other three soloists. Mr. Sullivan had a disturbingly harsh voice, exhibited no dynamics, sang with his head buried in the music, and was below par the whole evening. Mr. Matthen too exhibited these faults and in addition had to slow down on fast passages which he found difficult to articulate, as well as singing many untrue notes, and wavering on held notes. He exhibited wretched breathing. Miss Tobias attempted to be somewhat too dramatic (after all we didn't go to see grand opera) and in several instances blurted forth her entrances instead of easing into them. She did, however, perform the "Oh Thou That Tellest . . ." very beautifully. Your reviewer likened her in this aria to a person telling an exciting fairy tale to a group of anxious youngsters.

Judging from the audience response the performance was extremely well received. Certainly the MIT Choral Society is a match for any professional group in the country, and of which we should be justly proud. Recognition should be afforded Prof. Liepmann for his work in training these people and for his profound interest in music at MIT.

—ACL

## review

**THE MESSIAH**, for chorus, soloists, orchestra and organ. Klaus Liepmann, conducting; Helen Boatwright, soprano; Margaret Tobial, alto; Donald Sullivan, tenor; Paul Matthen, bass; Daniel Pinkham, harpsichord; David Johnson, organ; Robert Brink, concertmaster.

On Friday and Saturday evenings, December 13 and 14 in Kresge Auditorium, the MIT Choral Society, under the direction of Klaus Liepmann, and soloists Helen Boatwright, soprano, Margaret Tobias, alto, Donald Sullivan, tenor, and Paul Matthen, bass, performed Handel's oratorio, *The Messiah*.

Instrumentalists were David Johnson, MIT organist, David Pinkham, harpsichordist, and a small orchestra including strings, woodwinds, trumpet, and tympani.

Opening with the overture, Prof. Liepmann performed most of the oratorio with the exception of a few arias and choruses that are generally omitted, anyway.

Throughout the work the orchestra was good—tempo were brisk, yet not fast, and the many ornaments which greatly enhanced the performance were executed with deft precision; however the dynamics were poor. This is not to say that attacks were not firm and decisive but rather that monotony settled in after a while. Climaxes were not felt, they were just played. Then too, the organ part, while very good, was a bit chaotic. In the overture only a few randomly played chords were forthcoming and with the exception of the Hallelujah Chorus and the Amen Chorus the organ could barely be heard.

Your reviewer feels that the organ could have been used quite advantageously in many places, but was not. None the less in the Hallelujah Chorus we have a wonderful example of how the organ was effectually used. For on the last chord Mr. Johnson held this chord a second or so longer than the chorus and orchestra and it was definitely a thrilling close. Now many will disagree with this practice and I for one do not know whether or not it was intentional but the effect, nevertheless, remains.

A special note of commendation should be accorded Mr. Pinkham, the harpsichordist, for his playing was superb. Also your reviewer feels that more trumpet and tympani should have been used. The trumpet was not as telling as

## flask and flagon

With the gala Yule season already begun, discerning drinkers everywhere are forced to consume the somewhat nebulous beverages which are the American interpretation of the old Wassail tradition.

Liquor lovers who wish to celebrate the season in the traditional manner would do well to abandon the egg-nog (which in these tasteless days is too often a repulsive concoction of prepared mixes and third-rate alcohol) and consider the aristocratic English Bishop.

The history of this classic dates it to medieval times but in this area it is known to be served only at the traditional Ware Christmas party where its brewing and drinking has become a yearly ritual, and where participants in the rite recall its observance with loving memory and await the coming of the winter with baited and fragrant breath.

Brandy is the base of the Bishop, and Armagnac has always been the favorite at Ware. Cognac, its more celebrated sister, is best reserved for the snifter and a less princely potion would be little more than sacrilege.

An iron cauldron should be used but if unavailable any stout kettle can be used. Into the cauldron, a fifth of brandy is poured and cut fruit is added (for best results, firm fresh slices of apple, pear, orange and pineapple should be used).

The cauldron is then placed over a fire and warmed, briefly, removed and then mulled with glowing poker. Served in stout mugs, the Bishop has a hearty aroma and a rich fruity taste.

Faint hearts and fragile drinkers are warned, the Bishop is not to be trifled with. One mug will warm the heart and bring spirit to the merest slacker, two will make a strong man weep and none have ever finished three and remembered enough to tell about it.

A necessity for traditionalists and a luxury for all, the serving of the Bishop and the usually consequent caroling insure a festive Yule evening.

Cheers.

—Jafray Chaucer

### JOB OPPORTUNITY

There will be a Dinner-Discussion Meeting on "Franciscan Monastery Life" in the West Dining Room of the Graduate House, at 6:15 p.m. The speaker will be a Franciscan priest from St. Anthony's Monastery in Boston.

### ENGINEERING SEMINAR

The Aeronautical Engineering Department is presenting a seminar today entitled "Combustion and Aeronautical Applications: Film Combustion." The speaker will be Howard W. Emmons, Hunsaker Professor of Aeronautical Engineering; the seminar will take place in Room 33-319 at 4:00 p.m., and coffee will be served in the Given Room, Building 35, at 3:30 p.m.

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### ARAMAN SOCIETY

The Araman Society will hold its annual Christmas Party tomorrow evening at 8:30. Admission is free to all those who wish to be considered for membership in the society. Refreshments and music will be provided.

### CYCLOTRON SEMINAR

The Nuclear Engineering Department is presenting a seminar entitled "Time of Flight at the MIT Cyclotron" today. The speaker will be Paul Klein and the seminar will take place at 138 Albany Street, from 1:00 to 2:00 p.m.

## SHERATON HOTELS

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# Excerpts From Financial Primer

(Continued from page 1)

(The following are excerpts from "A brief explanation of some of the factors affecting the cost of undergraduate education at the Massachusetts Institute of Technology in 1956-57.")

MIT is a privately controlled, endowed institution. It receives no subsidy from the state as do the state universities and other publicly supported institutions. The Institute's present endowment, land, and buildings have thus been financed largely by gifts; no part of the tuition paid by students is being used to provide these capital resources.

For the academic year 1956-57, the Institute's budget for educational and general expenses totaled \$19.5 million.

One item of discrepancy will be noted between the charts of expense and of income. Dining and student housing used up about 10 per cent of the Institute's expenses but brought in only 9 per cent of its income. Thus the dormitories and dining service did not operate on the expected no-profit, no-loss basis.

A recent study of sixty colleges and universities by their business officers showed that the average income from auxiliary enterprises (such as dormitories, dining halls, faculty housing, and student unions) slightly exceeded the operating expenses. These colleges, on the average, were showing a surplus from these auxiliary activities, and this money was turned over to the educational operations of the institution.

The Institute has applied more than \$4.6 million of its endowment funds to make today's dormitory system a reality.

Until this year, MIT dormitory rentals had not changed since 1951.

The MIT dining services are planned on a no-profit, no-loss basis, just as are the dormitories, sponsored research, and many other aspects of the Institute's operations.

## George Adams, Noted London Bookmaker To Study, Work Here

George A. Adams, lecturer in the Design Department at the London School of Printing and Graphic Arts, will join the staff of the MIT Office of Publications for three months beginning in January, 1958.

Known as a distinguished designer of books and other printed matter in England and on the continent, Mr. Adams will assist in the design of various MIT publications and will also study graphic arts instruction and American design and printing methods.

A native of Austria, Mr. Adams studied at the Vienna Academy for Arts and Crafts and at the Bauhaus. He has held design and art direction posts in Vienna, Hamburg, Berlin, Barcelona, and London, where he is now a consulting designer to Thames and Hudson, Ltd., and operates his own studio.

# Award-Winning Rocketeer Is Grounded

Unlike scores of youthful novices, in schools and colleges across the country, who are meeting the challenge of Sputnik with a flurry of firings—mostly misfirings (see *Life*, December 16)—East Campus' J. Reece Roth will launch no rockets.

Roth, who recently accepted the \$1,000 American Rocket Society-Chrysler Award from Dr. Wernher von Braun himself, an event widely publicized in the nation's press and magazines, is now gaining regard as a spiritual leader of rocketdom's mushrooming teen-age *avant-garde*. But he, and the MIT Rocket Research Society of which he is vice-president, have been forced to cancel plans to propel a rocket thirty miles in the general direction of the moon because of certain pre-Sputnik safety regulations which apply throughout the eastern United States.

The Society will confine its research to propulsion studies in the basement of the main buildings, declining to putter outdoors with tiny firecracker-rockets. Roth is certainly no putterer, as illustrated by the technical nature of the paper which won him the award: "An application of particle dynamics to the measurement of rocket exhaust velocity".

Roth began work on the paper in the Society last spring, but did most of the work over the summer while employed by the Aerojet-General Company in California. There he built an apparatus in which the exhaust is passed between two electrically charged plates surrounded by a magnet. The potential between the



J. Reece Roth '59 displays a photo of his rocket exhaust velocity measuring device. Behind him is a favorite still-life woodland scene.

plates is a function of the exhaust velocity and is used to measure it.

The main report of the experiment was given to the Aerojet General Company and a condensation was submitted to the Chrysler Corporation. Dr. von Braun made the award presentation at the Regional Students Conference of the American Rocket Society at the Statler Hotel in New York.

Roth was then offered a chance to appear on "The \$64,000 Question", but declined because of the excessive amount of time he would need to prepare for an appearance.

## NSA Discusses Aims Of Student Activities

The National Student Association held a conference in Emmanuel College which discussed the problem of the purposes of student government. The representatives from MIT were NSA Sub-committee chairman Gerald Stephenson '59, as well as Gene Zob '59 and Vic Parker '60.

The keynote of the meeting was the idea that most student governments get tied up with minor busy-work, and do not have a chance to take up significant activity. This whole problem will be discussed in the context of MIT at the Incomm meeting this Thursday. At this meeting, the delegates will discuss and submit papers on their idea of the purpose of Incomm. Interested students are asked to submit their ideas for Incomm action to their representatives.

### CUMULATIVE RATING

(Continued from page 1)

mittee reviewing these recommendations this year. The recommendations were approved at the last meeting of the Institute Committee and forwarded to the Faculty Committee.

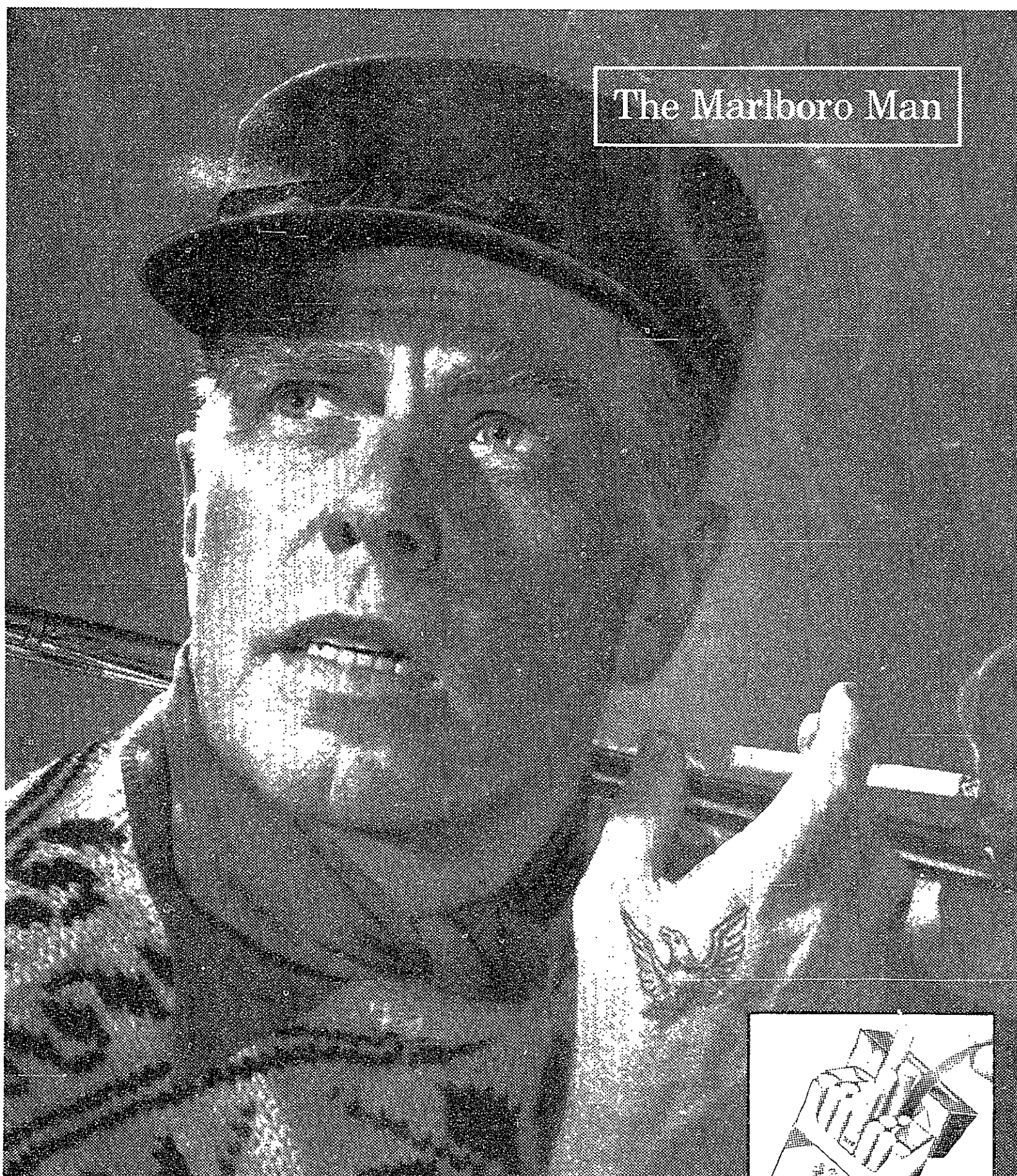
Both of the Institute sub-committee members felt that the key question was, what purpose does the cumulative rating serve? Jordan in a statement said that he considered the present rating system a poor attempt at determining of a person's abilities. He said that the three digit accuracy of the "cum" was deceptive and variation in ratings was probably due more to different courses and electives than to any variation in student's abilities. He said he thought that it was more important, and only practice, to determine whether a student was a "B" or a "C".

Jordan went on to say that he has found the reaction of the faculty mixed. Some were definitely distressed at the significance of grades in the student motivation where the will to know and the quest for knowledge should be primary. Other of the faculty Jordan found looked upon the cumulative rating as highly desirable for the purpose of selection, as in Course 6-A where students must meet a certain rating to qualify for acceptance.

Jordan was willing to predict that the cumulative rating will undergo a change this year. This prediction is certainly consistent with the Institute's striving to find the best in educational policy. The numerous changes in marking during the past bear out this experimenting spirit.

The earliest student records only noted whether a student passed or flunked. However, it was found that some students passed and flunked better than others, so four marks were assigned. Later this was revised to the five letter marking system; and finally the five letters were assigned numerical values and the cumulative rating and term rating calculated.

The abolishment of the cumulative rating, which doesn't seem likely because of its importance to selective service standing, or an attempt at the reduction of its importance may be the next small step in the direction that could some day abolish grading completely.

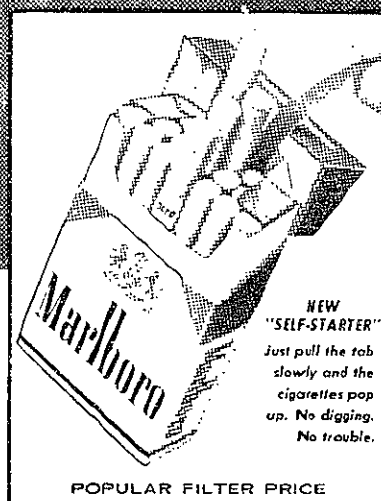


A lot of man... a lot of cigarette

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A filter that means business. An easy draw that's all flavor. And the flip-top box that ends crushed cigarettes.

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POPULAR FILTER PRICE

# The Crimson Downs Beavers 81-61 Before Capacity Crowd

Playing before a capacity home crowd, the hustling MIT varsity basketball squad dropped an 81-61 contest to Harvard last Saturday. The Engineers, led by high scorer Eric Hasseltine '59, were unable to use their pressing defense to contain the taller Cantabs, who controlled the backboards for most of the game.

The first ten minutes of the game saw the lead change hands several times, with Tech ahead 23-21 by virtue of successive one hand push shots by Hasseltine and captain Mac Jordan '58. The Crimson surged ahead with nine straight points, before a foul by Dennis McGinty '59 and a one hander by Jordan cut the Harvard lead to four points.

Harvard center Bryant then dropped in three straight buckets, and George Harrington scored on a layup to give the Crimson a 40-28 lead. Herman Burton '60 scored for the Techmen with a desperation shot at the end of the first half to make it 40-30.

After the intermission, Harvard guard George Harrington hit with two set shots and a foul to give the Crimson a fifteen point lead. Sharp MIT ball handling then allowed them to cut this lead by virtue of a layup by Burton and a jump shot by Hasseltine. Burton followed with a foul after the visitors had scored two straight baskets to leave them ahead 51-36, with fifteen minutes remaining.

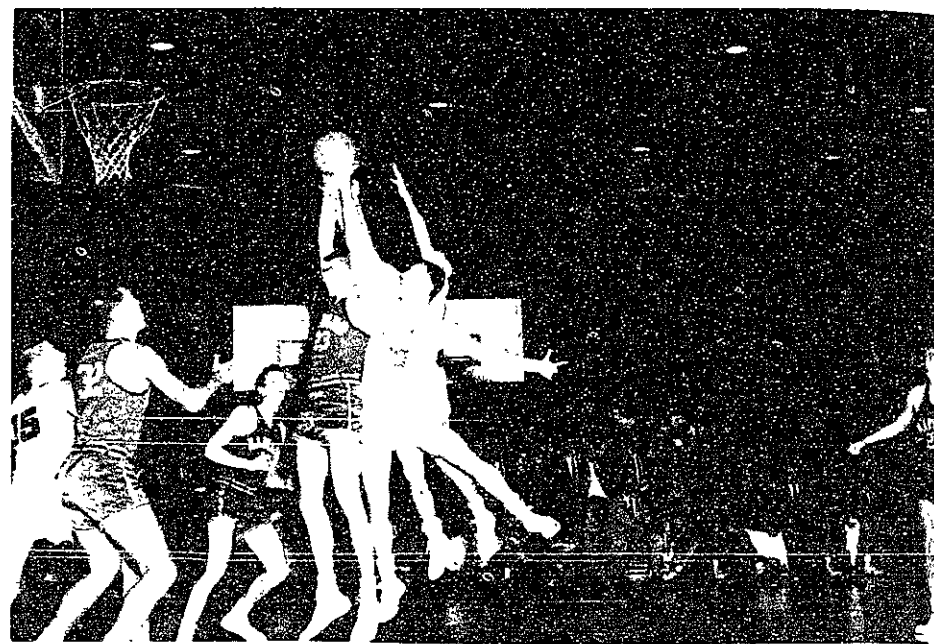
### Hasseltine Stars

After a basket by Harvard's Monk Manchester, the Burkemen scored on a tap in by McGinty and a foul by Jordan. Alert pressing by Hasseltine led to several steals and four baskets for the spirited guard, who now had seventeen points for the evening. Bryant and Manchester tallied for Harvard to give them a 62-45 edge at the middle of the second half.

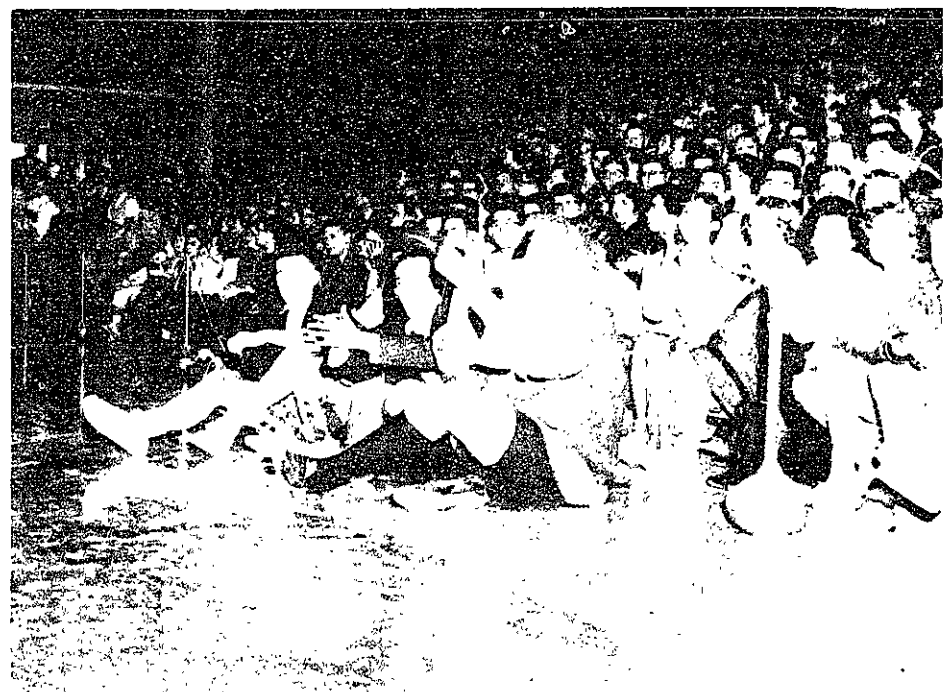
Dependable Mac Jordan then swished a jump shot and Hasseltine followed with another one hander to cut the MIT deficit to thirteen points. Harrington's accurate set shooting then accounted for two more Cantab baskets before the Engineers' pressing led to field goals by Jordan, Paul Repetto '58 and McGinty.

With three and one-half minutes left in the game, Harvard opened up a twenty-four point lead largely through nine foul shots scored, because of MIT's committing seven fouls in the second half making all free throws one and one. In the last minute of play, a steal and layup by Jordan and a layup by Lee Cooper '59 completed the scoring, giving Harvard an 81-61 edge.

The Beavers travel to the University of New Hampshire tonight and face Middlebury here Thursday evening before taking their Christmas vacation.



MIT's Jack Pogarian '59 (No. 30) tries in vain to block a Crimson shot late in the game, as Tech captain Mac Jordan '58 awaits the rebound.



Spontaneous spirit at the game was provided by the antics of Carl Swenson '60 (top hat) and his Bermuda-wearing companions shown here watching the action.

### Clark Cagers Top Beavers Thursday

In a tuneup for the encounter with the Crimson, the Beaver varsity hoopsters were edged by Clark 55-52, Thursday evening at Worcester. The visitors trailed throughout the contest, closing the gap from eight points to three in the closing moments. High scorer for the Burkemen was Lee Cooper with 22.

### bushleaguer

Intramural basketball League play draws to a close this week with the completion of over twenty games in the last several days. Tonight should finish off all but a few of the games, and championship play will start the first school week of the new year.

The finals will be run by a double elimination system; meaning that there will be a winners and a losers bracket, and that any team would have to lose two contests to be ousted.

The top two teams from each league will be entered in the finals, and it is hoped that the playoffs will be completed before exams begin. This schedule, however, may be delayed if there are many second and third place ties in the leagues which would necessitate playoffs.

In late last week's play only three games were played. Lambda Chi Alpha bowed to 5:15 Club 49-40; the Delts ran over Dover Club 51-32; and Westgate did the same to the Sammy's 62-31.

### COMPUTATION CENTER TOUR

There will be a tour of the Compu-

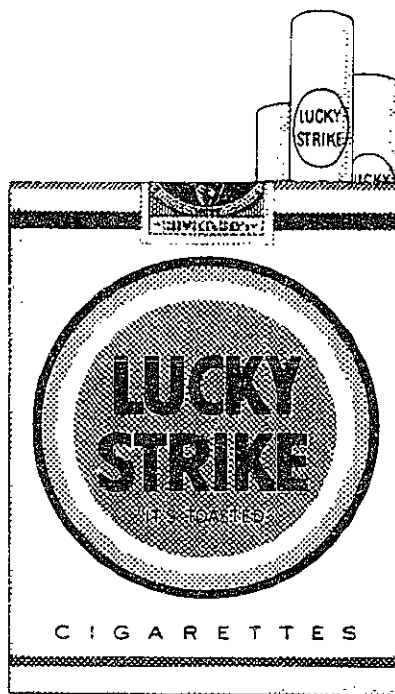
tation Center (26-168) today at 4:00 p.m., together with a lecture and demonstration.

# Sticklers!

WHAT'S THE RESULT OF A GLEE CLUB REHEARSAL WITHOUT A LUCKY BREAK? (SEE PARAGRAPH AT RIGHT)



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### Engineer Squashmen Taken By Wesleyan While Yearlings Win

The Crockermen went down 8-1 against Wesleyan in their first home game last Friday evening. The starting nine showed an improvement over the opener with Dartmouth the previous week. Jessie Wallace '58, at number one played a strong game but, unable to retaliate against his opponent's hard serve, he lost 15-11 13-15, 15-9, and 15-2. Cal Morse '53 and Chuck Leonard '58, two and four, each carried their sets to five games. Cal, showing improvement over the opener, lost 11-15, 18-15, 15-12, 6-15, and 15-11. Chuck, after winning the first two games 9-15, 11-15, tired out and lost the next three 17-15, 15-11, and 15-10.

Tech's only win was scored by sophomore Bob Hodges in the eight spot. Bob, continuing the good showing he made in the Dartmouth match, won easily in three games, 15-11, 15-10, and 15-8.

Rallying to save face for the racquetmen, the Little Beavers smashed the Wesleyan Frosh 7-2 in their opening match. Faid Saad quickly won his set in three games, 15-4, 15-4, and 15-7. Faidr stuck to the T and controlled the play all the way. Raul Karman, who has been playing for only a month, defeated the Cardinals' number two man, 15-3, 15-4, and 15-6.

The next three men also won in three straight games. Loutfy El Sherbiny, who played with Faidr in Egypt, monopolized his set 15-5, 15-5, and 15-1. Jack Klapper and Leon Borstein, both former tennis players, clipped the four and five visitors' winning 15-5, 15-6, 15-3, and 15-9, 15-4, 15-10, respectively. Monroe Labouisse and Mike Willingham rounded out Tech's wins each going four games. Monroe got a slow start losing 12-15, but warmed up to take the next three 15-8, 15-10, and 15-12. Mike also dropped the first one 8-15 but romped to victory 15-2, 15-4, and 15-5.

# Hamilton Overcomes Icemen 5-0, MIT Yearling Pucksters Win 2-1

## Four First Period Goals Sink Tech

An improving Beaver varsity hockey squad tightened their defense too late, as they dropped a 5-0 decision to Hamilton Saturday afternoon at the Briggs Field Rink.

Tech's Coach Ben Martin surprised local rooters by starting sophomore Sid Altman in the nets despite the fact that he had worn the goalie pads only twice in practice. However, his inexperience was not the only reason for the quartet of goals tallied by the visitors against him. Of the four, two were screen shots, one a breakaway and the other the result of action in front of the nets.

## Fencers Cop Opener

### 19-8 Victory Paced By Sweep In Foils

MIT's Varsity fencing team got to a fine start by trouncing their first opponent of the year, Bradford Durfee Technical Institute (Fall River, Mass.) 19 matches to 8, last Saturday afternoon at Walker Memorial.

In the foil events, the Beavers won 8 out of 9 paced by Barry Shabel '59, who won his three matches without an opposing touch, which is quite an outstanding feat. Other scores were: Jerry Yarbrough '60, 2-1; Mike Fein '58, 1-0; then substituted by Sherman Karp '60, whose score was 2-0.

In the Sabre, the visitors were edged 5-4, as Larry Campbell '59 won his three encounters by scores of 2-5, 1-3, and 3-5. Other scores were: Karl Koepke '60, 2-1, Joe Verderber '60, 2-2 and substitute George Whitman '60, 0-1.

The team captain and number one man Les Dirks '58, was sidelined because of a minor injury, which will not hinder him, however, for the rest of the season. Nevertheless, Bill Hudson '60 turned in a fine performance by winning his three matches 3-5, 4-5, and 1-5; the second contest being a thriller as Hudson, behind 4-2, managed to figure out his rival in time to win in the last half minute by the maximum score. The total was a 6-3 victory for MIT, other scores being: Chuck Haspel '60, 2-1, Ron Wempen '59, 1-1 and Joe Pedlosky '59, 1-0.

Coach Silvio Vitale was very pleased with the performance of the team, and is confident that the squad will take our traditional BU rivals in the night match of Wednesday, January 15, 1958.

## Matmen Blanked By

### Springfield Saturday Army Downs Frosh

Wrestling their second meet of the season Saturday, the Tech matmen bowed to Springfield 34-0. No Tech wrestler managed to score in the Saturday afternoon duel on the Teachers' home grounds.

The afternoon got off to a bad start when the first three MIT contenders lost their matches by decisions. Things got worse, however, as the next four, in the 147 to 177-pound classes all met with Springfield pinnings. Tech forfeited the unlimited class to give the Teachers a 4-point spotting.

### Meet In Spring

Several observers commented that the Tech matmen were scared by the opposition, and thus unable to wrestle as well as they should. The next meeting with this opponent will be in the New Englands this Spring, and hopes are high that Tech will do better against them then.

The matmen meet Harvard tomorrow night at 7:30. The Crimson were beaten by Brown, which lost to Springfield, so chances are that this match will be close.

### Frosh Defeated

The frosh wrestlers also were defeated Saturday by a strong Army team, as the plebes compiled 2 points against Tech's 8.

Winning points for the Cardinal and Grey were Andrew Bulfer in the 220-pound class who took a 5-0 decision and Reed Freeman who pinned his opponent in the last of the three-minute periods.

In other matches, Dave Latham lost a decision 7-3, Bob Forsten was pinned in the second period, John Sullivan came out on the short end of a 8-4 decision, Dick Meekan was pinned, and Jack Smith went down in a 4-0 decision.

With moments remaining in the opening session, Altman was removed for regular goalie, Dick Burgie '58 who finished out the contest, allowing only one score in the final period.

The Beavers put on a spirited display of defense in the second and third periods at the expense of their offensive attack.

Another change in the Beaver lineup was the appearance of star defenseman Paul Ekberg '58 at right wing on the second line. Ekberg, team captain, injured his knee in a collision with the boards in the third period, but he'll be ready for the game at University of New Hampshire, Tuesday night.

The successful Hamilton defense consistently had one defenseman in the goal mouth when the puck was moved across the blue line into their zone. The Beavers did not use this method at all, hence leaving the visitors a greater target to shoot at.

## Engineer Swimmers Surprised By RPI's Strong Team, 59-27

A greatly surprised MIT Varsity swimming team saw last year's score reversed as RPI piled up a 59 to 27 victory at Troy last Saturday afternoon.

In every event, the Beaver aquamen faced much improved competition in comparison to what the New Yorkers offered last season.

### Kane Outstanding

Roger Kane '59 and Jack Kossler '59 turned in the Techmen's only two outstanding performances. Kane won the 50-yard freestyle in 24.8, his best time to date while Kossler swam a 57.5 leg in the 400-yard freestyle relay.

### Kohlman High MIT Scorer

Beaver co-captain Murray Kohlman '58 was high scorer in the losing cause as he copped the 440-yard freestyle in 5:22.4, and placed second in the 220.

MIT was hurt by a lack of much needed depth, evidenced by their capturing four first places and only one second.

## Beaver Weightlifters Shaded By Harvard; Three Techmen Win

In a closely contested meet Saturday the MIT Weight lifting team lost to Harvard 15-12. Though plagued by the lack of an entry in the 132-lb. class, the Weightmen gave an excellent account of themselves taking three first and three second places.

Team captain Herb Kavet '58 overtook a substantial Crimson lead, finishing with a lift of 240 lbs. to capture a first place in the 165 pound class. Ken Krohn '59 and Jay Stark '61, both lifting in competition for the first time, gave a splendid exhibition, winning their classes with lifts totaling 585 and 550 pounds respectively. Last years' reliable Harry Kamamis '59 and Gary Miller '60 both were on hand to take second places in the heavy and unlimited classes.

Coach Harvey was extremely pleased with Saturday's meet and is confident that the team will have a winning season and a good chance for the title of eastern Collegiate Champions which was lost to New York University last year.

The meet took place in the team's newly acquired room in the basement of the armory. The improved facilities have been a great asset in the team's workouts and in encouraging new lifters.

A highly promising freshman hockey team took its first game of the season last Friday by defeating Browne Nichols 2-1 on the Briggs Field Rink. The teams were evenly matched throughout the game, which was also the Browne Nichols' opener.

Tech went into the lead 1-0 early in the opening period as center Charlie Hendrick took a shot from

wing Walt Cluett and put it past the goalie.

The second period provided no further scoring, but the Tech Frosh kept up their highly spirited play, and with 3:14 gone in the closing period, right wing Jim Seppala slashed in for the final Beaver score.

Browne Nichols made an attempt to tie it up in this stanza, scoring

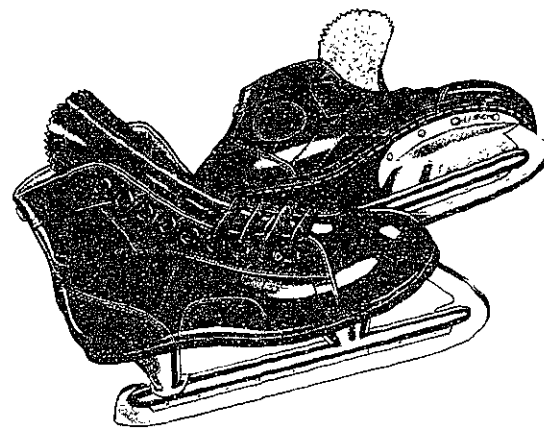
at 13:54, but the frosh defense prevented their scoring again before the final gun.

Both teams took about the same number of shots as the Browne Nichols' goalie stopped 16 and Beaver goalie Dave Peter tallied 15 saves.

Attempts are now being made to expand the frosh icemen's schedule which at present includes only three games.

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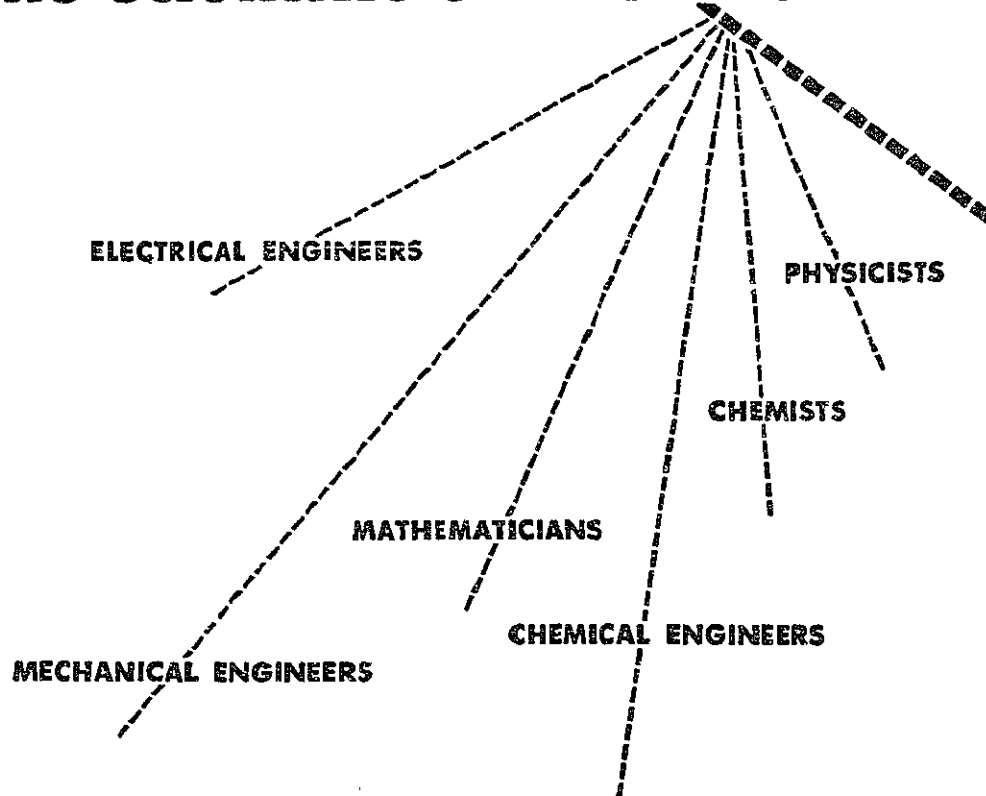
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### Burton Chess Meet Holds First Rounds

The first round of the Burton House chess tournament was held Saturday afternoon, with twenty-six players competing. First standings have been posted, and the second round will be completed soon after the Christmas vacation.

A feature of this tournament was the technical advice and demonstrations by Orest Popovych, New England chess champion, and Carl '61 and Larry Wagner '60, Baker House champions. In a series of twenty-five one-second move games between Popovych and Wagner, Popovych won twenty-three. Later, he will play simultaneous boards against amateur challengers. Popovych is unbeaten in this type of exhibition.

#### CLASSIFIED COLUMN

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WANTED—Motor scooter or small car. Call CO 5-3498.

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WANTED—Freshmen and Sophomores who have, or think they might have, financial and business abilities. (Also those who just want to make money.) Contact THE TECH Advertising Department, Walker 032, Sunday or Wednesday afternoons, or call Bemis 504, East Campus for information.

#### NATIONAL DEFENSE

(Continued from page 1)

the aerodynamically superior Russian MIG-15's in a ratio of fifteen to one in Korea. And we have not allowed such successes to lull us to sleep. MIT's Instrumentation Labs have since designed, developed and delivered a submarine inertial navigation system for the Navy's undersea-launched Polaris missile, and did so "before the Navy knew it needed such a device," declared Dr. Draper.

Twelve million dollars annually are now being spent for research in MIT's Aeronautical Engineering department. We do not intend, says Dr. Draper, to fall farther behind.

#### MONTE CARLO CALCULATIONS

There will be a seminar entitled "Monte Carlo Calculations of Neutron Thermalization". The speaker will be Professor Robert Richtmyer of the NYU Institute of Mathematical Sciences, and the seminar will take place today at 3:00 in 26-168, the computation center.

#### "REMEDY FOR SIN"

The Graduate Christian Discussion Group is presenting a talk and discussion entitled "God's Remedy for Sin". The speaker is Robert Herrman, an MIT graduate student; the discussion will be held tomorrow at 8:30 p.m., in the West Dining Room of the Graduate House.

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