

## Comm. Budgets The Third

### s To Raise Amount; Solons Provide Rest

istance to the various activities by the Institute will, in the future, be two-thirds of the amount for that year, according to the Institute Committee. This ruling will be a boon to the society, according to the Institute Committee. The discussion of the

means that in the future will have to finance one budget for themselves. To do so at the present time the Beaver Key Society and the Tech Clubs raising the dues. The Society has no dues at the moment, however.

ers attended to at this time the raising of the Sophomore Prom from \$100; approval of an appropriation of \$200 for the ski team; and the possibility of having a publicize under- especially among pros-

to a motion made by the members, president of the class, the Soph Prom budgeted by \$150. This included to take care of the tax which was provided (Continued on Page 4)

## hop Plans Production

### "Guardman" J. Norris van Teylingen

Dramashop's first production of the year, Molnar's "The Guardsman" was announced last week. The leading roles will be portrayed by Andrew A. van Teylingen, J. Norris, and Robert L. Fuller. The play is directed by Pro-

### man Is Comedy

"The Guardsman" relates the story of an actress who grows to love her actor husband. In an attempt to win back his wife, the actor disguises himself as a Communist and begins to make love to her. She is determined to discover that she is being deceived, but he reveals his true identity. However, she takes it calmly and her husband that she recognizes the beginning.

will be presented on December 6, at the Elizabeth Theatre. Tickets will go on sale soon.

## usses tracts

dinner meeting of the Tech Conference took place last evening, November 12. At the meeting a resolution was discussed for a standard form to be used by all the dealings with dance. A motion was made for the Tech to bring more satisfactory relationships.

Lightman, '42, chairman of the committee, reported that a survey had been made in the survey of food buying. Edmund '43, was elected to the committee as member at

## Schmitt Heads New Research With Electron Microscope

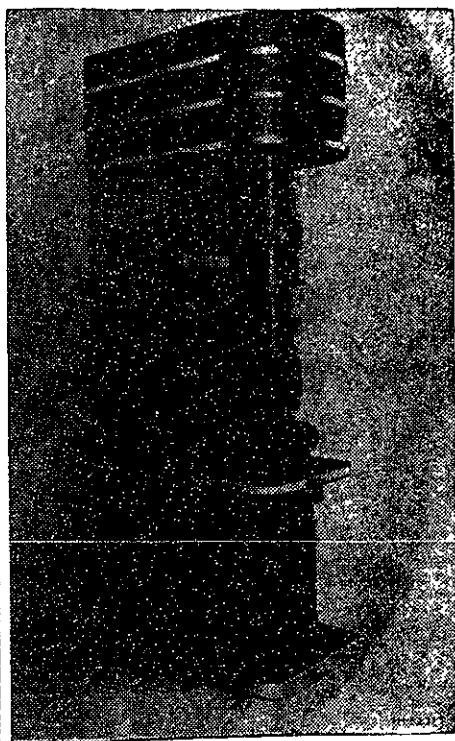
With a grant of \$70,000 from the Rockefeller Foundation for the establishment of a sub-microscope center at the Institute, Dr. Francis O. Schmitt, new head of the Institute's Course in Biophysics and Biological Engineering, is already pressing the electron microscope, newest and most powerful tool in man's quest for knowledge of the structure of matter, into service in biological research.

Capable at its present stage of development of producing effective magnifications up to 100,000 diameters, as compared with the 2,000 to 3,000 diameters available with the compound microscope, the electron microscope has already brought the largest molecules within the range of visibility.

### New Era Seen

"The electron microscope," Dr. Schmitt believes, "ushers in an era even more significant than that halled one hundred years ago when the com-

(Continued on Page 4)



ELECTRON MICROSCOPE

## Stratton Prize Aides Named

### \$100 Awards Offered For Speaking Contest On Scientific Subjects

The 1941-'42 competition for the Stratton Prizes, with prizes totalling \$100, received its first impetus this week when the committee in charge announced the appointment of seventeen course advisors. The annual competition has in the past been held with the cooperation of these departmental representatives, who are members of the instructing staff, and who advise candidates in regard to subjects and factual accuracy.

Open to all undergraduates, this competition is to stimulate interest and develop ability in the presentation of concise and interesting papers on scientific subjects of timely character and popular interest. In other words, it is to help cultivate the art of successful speaking on topics of technical significance.

### Cash Prizes

The first prize in the competition is fifty dollars; the second, thirty dollars; and the third prize, twenty dollars. (Continued on Page 4)

## Voo Doo Victorious In Football Brawl

Two titans of the football world met in the Tech Bowl last Saturday afternoon at 3:30 P.M. in what might have been the greatest football game of all time. Both The Tech and Voo Doo were undefeated, untied, unscored upon, and ungained upon. (It might be pointed out, however, that this was Voo Doo's first game of the season.) The prize, as has previously been announced, was a keg of beer.

With this as an incentive for victory, the two mighty teams swayed back and forth until well after dark. Time after time The Tech drove up to the Voo Doo goal line, only to have the referee think up some ingenious excuse for a fifteen or twenty-five yard penalty. Also time after time the referee would award the ball to Voo Doo in the shadow of The Tech's goal posts, until finally, with the aid of Seeley (a Novar, not a member of Voo Doo), the misguided antidotes for a joke managed to push over a touchdown.

Finally, after the referee, with the aid of the water-boy and a couple of black-jacks, had been persuaded to see the light, The Tech's backfield sparked by General Manager, "Fightin' Al" Clear, pushed its way down for an easy touchdown. It was on the verge of a second score, when the final gun went off. Final score: Voo Doo 7, The Tech 6.

## Medical Dept. Announces Results Of Examinations

With 2798 out of 3,055 students already having been examined, the Institute Medical Department today announced some of its findings about the health of the student body. In announcing the results, Dr. George W. Morse, Medical Director, emphasized the necessity of proper physical care during the college years.

Many cases of defective vision were found, it was announced, and measures for their correction were being prescribed and taken. One interesting thing found was that more of the men examined were underweight than overweight. A number of instances of defective hearing and minor defects of the feet were also discovered.

### Dental Clinic Is Success

Dr. Morse expressed satisfaction with the activity in the new dental clinic which has already had more than eleven hundred visitors. More than 800 students have already had a thorough oral examination. Dr. John J. Gibbons, who is in charge of the dental clinic, has reported that active decay was found in the teeth of approximately 50 percent of the students examined, of which most decay was in the early stages. The clinic has proved of great value to students for diagnosis and for emergency treatments.

The psychiatric service, established under the direction of Dr. John M. Murray this fall, has already been very active in helping students solve the common problems of adjustment in a new environment, and giving advice in mental hygiene.

## Wellesley Invites International Club

The members of the Technology International Club have been invited to a tea dance by the Wellesley Cosmopolitan Club, it was announced recently. The dance will be held from 3:00 to 6:00 P.M. next Saturday, November 15, in Alumnae Hall at Wellesley College.

Since admission will be by invitation only, members who wish to attend are asked to sign up at the bulletin board opposite the Bursar's Office. Transportation is to be provided by the club at \$25 per person, and the party will leave from the steps in front of Walker Memorial at 2:15 P.M.

As a sequel to this the International club will sponsor a record dance on Friday, Nov. 28 to take place in Pritchett Hall from 8:00 to 11:00 P.M. The dance will be open only to members and their friends.

## T. C. A. Financial Drive Reaches Record High, Collects Nearly \$4,400

### All Activities Affected By New Admissions Tax

The effect on Institute activities of the new Federal Admissions tax on all social functions, effective immediately, was explained recently by Mr. D. L. Rhind, Institute Bursar. All events for which admission is charged must meet the following requirements:

1. The event must be reported one week in advance to the Walker Memorial Committee. This committee will report to the Bursar's office which will in turn inform the Collector of Internal Revenue.
2. The Organization sponsoring the affair must fill out form No. 754, and send tax payment directly to the Collector of Internal Revenue, Boston, Mass. These forms may be obtained from the Walker Memorial Committee.
3. All records of affairs must be kept by the organization.
4. Every affair must provide tickets that have the tax portion separately printed. "Tax included" is not permissible.
5. The M.I.T.A.A. will report any sports functions directly to the Bursar's Office.

## Sophs To Revel Tonight At Prom To Krupa's Music Voo Doo To Appear; Ushers, Chaperons Announced For Affair

The Sophomore Promenade will start tonight at 9:00 P.M. when "Ace Drummer Man" Gene Krupa, starts his boys sending and puts the feet of an expected 350 couples beating time to the strains of his music. The setting will be the Imperial Ballroom of the Hotel Statler.

With a large percentage of the Class of 1944 expected to be present, the dancegoers are probably eager to see what the efforts of their hard-working dance committee will bring forth to entertain them. According to critics, the dance is expected to be a big success.

### New Voo Doo Out

Sidelighting the big hop will be the appearance of the new Voo Doo, which, according to a communique received from a member of the staff, will feature a large number of cartoons, several pages devoted to Gene Krupa and his assembly, colorful stories, and the usual number of jokes. An unusual cover has been designed which depicts the embarrassment of a boy and girl who have uncovered some item of unusual interest between the covers of the magazine while a waiter looks on and spills the drinks he is serving in attempting to get a look himself.

### Chaperons, Ushers Announced

Announcement of the chaperons and ushers for the dance has been made by the Committee and will be as follows. The chaperons chosen are: Dr. and Mrs. Karl T. Compton, Dean and Mrs. Thomas P. Pitre, Professor and Mrs. B. A. Thresher, Professor and Mrs. Raymond D. Douglass, and Mr. Walter C. Wood.

The ushers will be: Carl Lindemann, Jr., '44, head usher, William M. Heyser, '44, Roger W. Patterson, '44, Paul M. Heilman, II, '44, Franklin C. Loesch, '44, John E. Ward, '43, David Christison, '42, Eric M. Wormser, '42, Fletcher H. Moore, '44, and Norman Kendall, '44.

## \$3855 Covers T.C.A. Budget; Red Cross Receives \$320, Rest Goes to Student Fund

The Technology Christian Association's annual financial drive, which closed last Friday night, realized the new record high of \$4,393.40. Of this amount, \$3,855 goes to meet the expenditures of the Association for the coming year, while \$320 is distributed to the American Red Cross, and \$218 to the World Student Service Fund. Although this total was the highest ever collected in the history of the drive, the amount collected for the T.C.A. itself fell short of the expected quota of \$4,100.

The difference between the amount collected and the \$4,100 budget will be made up from the excess collected last year, according to Clinton C. Kemp, '43, drive chairman. The largest single sum of the budget, amounting to \$1,000, has been assigned to the boys' work division to be used in sending underprivileged boys to camp next summer.

### Money Goes to Department

The Employment Bureau calls for \$400, and the Tech Cabin is assigned an equal amount. The meeting department, the information service, the foreign students service, and the book sales department also receive substantial amounts for their operation.

Warren I. Signell, '44, of the ticket sales service announced yesterday that \$506 worth of tickets to the Harvard-Army game were handled through his organization last Saturday, which is the greatest turnover in the history of the service.

## Professors Dine With Students

### Faculty Receive Polished Apples From Hosts

A day earlier than previously announced, the Dormitory Bull Session Dinner will be held next Monday, November 17, in Pritchett Hall of Walker Memorial. Among the Professors who will attend this first dinner of the season are Professors Avery A. Ashdown, James A. Beattie, Ralph G. Hudson, Ernest H. Huntress and Joseph H. Keenan.

The dinner, which was arranged by the Dormitory Committee to help break down the impersonal barrier between professor and student, will offer many interesting features. Included among the new ideas is the presentation by each student of a polished apple to his professor.

Although reservations have been going "fast and furious", according to Emilio Touche, '42, there are still a few tables vacant. As there is a definite limit to the capacity, any further reservations should be made immediately with Touche.

## Coeds Are To Hold Mixed Teas Bi-Weekly

For the first time in the history of Technology, the Association of Women Students sponsored a mixed tea last night at 5:00 P.M. The idea of having the tea was brought up at a meeting of the women's association and proved quite popular with the girls. These teas will be a weekly affair, with every other one to be open to invited guests (male).

Besides the sundry foods generally found at such affairs, the girls reported that a hilarious session of ping-pong was continually underway in the kitchen. Chaperons were Miss Florence Styles, Dean of Women, Professor William Green of the English Department, and Mrs. Green.

# The Tech



Vol. LXI Friday, November 14, 1941 No. 44

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Night Editor: Paul Talalay, '44.

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## THE CHASE IS ON

Latest reports from the wilds of New Hampshire indicate that all the game wardens in the state are scouring the woods for a beaver to serve as the official Institute mascot.

The beaver long overdue, the authorities are having difficulty in catching one of these broad-tailed animals, but they promise that we shall have a beaver at any odds.

The movement to get a beaver was initiated by the Beaver Club, honorary junior society, last year upon a suggestion by The Tech. Over two weeks ago plans were completed for delivery of the beaver but the elusive beaver has taken matters in its own hands by playing hard to get.

Plans are being formulated for a grand presentation by the M.I.T.A.A. when our illustrious mascot arrives. The A.A. president, Frank Herlihy, has consented to retain custody of the beaver upon its arrival so that interested students will be able to meet the "Bronze Rat" formally by visiting "Poppa" Herlihy.

## A WORTHY RIVAL

The latest issue of the Tech Engineering News proves that our undergraduate engineering magazine is one in which the whole Institute can justly take pride. If it isn't the finest in the country it certainly can stand up with the best.

Several years ago, T.E.N. won for the third successive time the existing cup for the most outstanding engineering magazine in the country, and thereby gained permanent possession of the trophy. Being the undisputed king of publications of its type, T.E.N. fittingly offered its own cup, which is now presented annually at the Gridiron banquet.

The most noteworthy attribute of T.E.N. is the fact that it has not been content to rest upon its laurels. Each succeeding managing board has found means for improvement, and the present board has been one of the most progressive. New cover designs, all in keeping with good journalistic taste, have been successfully tried without clinging to any outworn tradition.

T.E.N.'s literary selection and treatment has always been above average, covering ma-

terial of interest to future engineers and scientists in a manner that is not so technical as to become uninteresting to the average reader. In addition, its use of photography has been steadily more effective and original.

While not part of the magazine, the lobby displays staged by T.E.N. on days of issue have been excellent and indicate the excellent quality of the staff and the spirit behind the magazine.

We feel that the Institute is exceedingly fortunate in having a magazine of T.E.N.'s caliber to represent it in intercollegiate circles, and that the student body should stand behind T.E.N. one hundred percent. We wish to extend our congratulations to T.E.N. for its last issue.

## ACTIVITIES AND THE TAX LAW

One of the latest governmental acts that has a direct bearing upon student activities is the tax on admissions which removes the exemptions formerly given to activities sponsored by educational groups. In order that all the Institute activities may be fully informed of the details required by this new act, the general rules are listed below. Definite instructions are printed on the front page.

### TAX ON ADMISSIONS UNDER THE UNITED STATES GOVERNMENT INTERNAL REVENUE CODE EFFECTIVE OCTOBER 1, 1941

The new Federal tax law imposes a tax of 1 cent for each 10 cents or fraction thereof of the amount paid for admission to any place, including admission by season ticket or subscription to be paid by the person for such admission, regardless of the amount charged.

All Institute affairs, including dances, plays, athletic events, social functions, etc., for which admission is charged will be subject to the tax.

The general rules of the law are as follows:

1. Persons admitted free or at reduced rates must pay a tax equivalent to the regular price.
2. Children under 12 years of age when admitted for less than 10 cents are exempt and when admitted for 10 cents or more, pay tax on the amount actually paid.
3. Accurate records must be kept of all classes of admission, including free admissions. These records must show all the figures necessary to compute the tax.
4. Returns must be filed on form 729 and must be in the office of the Collector of Internal Revenue on or before the last day of the month succeeding that for which returns are made.

The requirements regarding tickets of admission and signs are:

1. Every affair which is subject to the tax must provide tickets or cards to show every admission which is subject to tax.
2. Every ticket or card must have printed on the portion taken by the management, the established price, tax and total. The phrase "tax included" is not permissible.  
 Example: Established price . . . . .10  
 Tax . . . . . .01  
 Total . . . . . .11
3. The name of the place to which the ticket or card of admission is valid must be shown on the ticket.
4. Tickets which are valid for admission to a particular seat must show the seat number on both the management's and patron's stubs.
5. All tickets must show the date for which they are valid.
6. The management must preserve their portion of the tickets for a period of not less than three months for possible inspection by revenue officers.
7. Every affair which is subject to the tax must post a sign stating the established price, tax and total.

## THE READER SPEAKS

### Credit Where Credit Is Due

November 7, 1941

Editor, The Tech,  
 Dear Sir:

I am grateful to you for giving some of your space to a notice of the map of Technology, illustrated by whimsical symbolic sketches. In the preparation of this drawing, Professor William H. Brown of the department of Architecture took a constructive part; and a committee of students of that department worked earnestly, drawing the buildings and guide-lines, and inventing a number of the best sketches.

I should be sorry to receive credit for the map as though I did it singlehanded, and hope you may find room in your paper to give credit to my colleagues.

Sincerely yours,

FREDERICK K. MORRIS  
 Department of Geology

## For Boys To Play

by Stewart Rowe and Joseph Tankoos

With Gene Krupa back again at the Statler for another Sophomore Dance and the inspirational '44 Dance committee promising big things, this evening looks like the first night of a huge fun-group week-end.

Incidental entertainment at the Statler will be provided by attempted high pressure sales of Technology's widely scorned pseudo humor magazine.

Despite the fact that "Horrible Hawk" Shaw has gone scurrying about the Institute looking in dank corners for what may be called talent (for want of a more euphonious term) and has managed to scrape up one or two writers of dubious merit, V. D. still presents a wonderful opportunity for improvement.

### Parties Planned for Saturday

Tyree and company have apparently sold fraternity dance chairmen a bill of goods because there is an imposing list of parties on the agenda for the following night.

First on the list comes the Pledge Formal of the Delta Kappa Epsilon—known from coast to coast in pub after pub as the "Dekes" in their Memorial Drive entertainment emporium. Altho this may be the official opening of the D.K.E. social season the boys have been at it since rush week started and by this time should be well wound up.

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## Fall Interclass Track Draws 60 Contestants

### Frosh Favored To Win; Harriers Finish Sixth In New England Meet

About sixty contestants, over half of whom are members of the freshman class, will compete in the annual fall interclass track meet tomorrow at 2:00 P.M. at Briggs Field. Hedlund predicted that the freshmen would win the meet this year, and named the following men to win their events.

Soph Bob Meny, who won last year in the hundred yard dash, is predicted to repeat his performance this year. He will also win the broad jump.

Junior Sid Hall is to place first in the 220 yard dash, repeating his last year's victory; he is also the favorite for the quarter-mile event.

#### Van Voorhees Favored

Junior Van Voorhees will win the javelin throw, while Junior Stewart will take firsts in the 120-yard high hurdles and the 220-yard low hurdles dashes. Senior Hoover Shaw is slated to win the 2-mile run. Remainder of the fifteen events will be taken by the frosh, except for the pole vault and the discus throw, the results of which will be very closely contested, according to Coach Hedlund.

#### Harriers Sixth

The Beaver varsity cross-country team returned on November 10 from Franklin Park in Boston, with sixth place in the annual fall New England Inter-Collegiate Cross-Country Meet.

Competing against such doughty opponents as Bob Nichols of Rhode Island, who set a new record for the course, the Beavers chalked up a score of 177. The first man of the Beaver squad to pass the tape was Mal Macgregor, who came in 24th, with Hoover Shaw immediately behind him. Ken Joseph came in 34th, while Bob

(Continued on Page 4)

## Booters Play Dartmouth In Last Game Tomorrow

The closing game of the soccer season will be played tomorrow at Hanover, N. H., when the booters meet the Green. Captain Fay would only comment, "The Dartmouth game will be well fought, and the team will show fighting spirit." Both Captain Fay and Coach Craig agreed that Dartmouth has the advantage.

The Beavers, who have won one game from Trinity and lost three to Brown, Coast Guard Academy, and Connecticut by close scores, consists mainly of Sophomores. "This year is the beginning of a climb that will lead us to the top in two years," Coach Craig said.

Dartmouth boasts the second ranking league scorer, J. Deane, and has won four of its seven games.

## Touch Teams Play Sunday; Four Undefeated

The eighteen remaining Beaver Key touch-football teams will clash this Sunday on Briggs Field, many of them for the last time.

At 9:00 A.M., Alpha Tau Omega will meet Phi Mu Delta, Phi Kappa will engage Sigma Chi, and Phi Delta Theta will play Delta Tau Delta.

At 10:15 A.M., the schedule indicates Goodale vs. Wood, Senior A vs. Sigma Alpha Epsilon, and Phi Kappa Sigma vs. the Phi Gams.

When the morning fray is over, Chi Phi will play the Commuters at 2:30 P.M., the Dekes will meet Phi Beta Epsilon, and Kappa Sigma will oppose Delta Upsilon.

The only four teams that remain undefeated to date are Phi Gamma Delta, S.A.E., Phi Kappa Sigma, and Senior A. Since only two defeats are necessary to drop a team from the tourney, at least six teams will be eliminated this week, if no ties result.

## Frosh Dinghymen Trounce Sophs

The freshman sailors defeated the Sophs by a decisive 59-46 score Armistice Day on the Charles Basin. The frosh took the first race by a 23-10 count while the Sophs rallied to gain a tie in the second. King led the victors in scoring with 18 points followed by Danner and Evans at 17 and 10 points respectively. Parkinson led the Sophs with 11 points while Bromfield and Mavor shared 10 points for second position.

On Sunday the Northeastern skippers edged out the Tech tars to take the greater Boston Intercollegiate Dinghy Championships against a strong field. The percentages were N. E., .733; Tech, .717; Harvard, .607; Tufts, .520; and Boston College, .470. Tufts was able to put only two crews on the water and it was necessary to use a percentage basis for scoring.

This afternoon the Nautical Association Pavilion will be the scene of the annual Women's Intercollegiate Regatta which was won last year by Radcliffe. The field competing will include Radcliffe, New Hampshire, Sargent, Jackson, and M.I.T.

## Novars Tackle Crimson Jayvees At Noon Saturday

### Fore River Scores In First Minutes, Downs Novars 3-0

Reaching the high point of the season tomorrow the Novars are to face the Crimson Jayvees at Harvard at 12:00 noon. The Novars lost a heart-breaker to the Fore River Apprentices at Quincy Stadium Armistice Day. The five hundred spectators who braved the chill November air saw a fighting Tech eleven attempt to overcome the heavier Fore River outfit's early lead. The Apprentices had scored in the first three minutes when they tried a field goal after running plays had failed. Never again did the Fore River boys threaten the Tech goal.

Fore River kicked off again to Tech, and after some punting the Novars began a passing attack. Monk Bunn completed one for fifteen yards. Then Bunn carried around right end for another first down. The attack, however, bogged down and Tech punted out on to the Fore River one-yard line.

#### Apprentices Didn't Click

The Apprentices' offense didn't seem to click, and they engaged in a punting duel. Hathaway of the Novars returned a long spiral to the fifty only to be felled by a perfect field block. Big Bob McBride hit the line for some sizeable gains as the first quarter ended.

Bob Bunn's end run netted the Novars six yards as the second quarter began. Fore River recovered a Tech fumble, but they also received fifteen yards for holding. They attempted to punt out of danger, but Coles of the Novars came through to

(Continued on Page 4)

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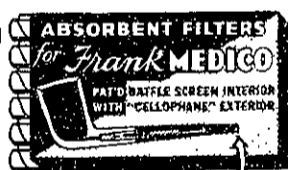
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## Intramural Crew Races Won By Sophs, Dorms

The Sophomore Class crew out-rowed the Junior, Senior, and Graduate eights, in the annual Richards Cup Race, run off on the Charles River last Saturday.

The Class of '44 took an early lead and held it in spite of the challenge of the '43 shell near the end of the 1 1/16 mile course.

The intramural race, which followed, was won by the dormitory eight in an event closely contested by the S.A.E. shell. Third, fourth, fifth, and sixth places were taken by the Phi Kappa Sigma's, Deke's, A.T.O.'s, and Beta Theta Pi's respectively.

## Kaneb Defeats Stouse, Takes Tennis Trophy

To Fred Kaneb, '43, goes the silver trophy which is awarded annually to the winner of the fall tennis tournament for upperclassmen at Technology. Kaneb defeated Stouse 6-3, 11-9 in the finals last Monday, culminating a month-long process of elimination on the courts. No letters will be awarded at this time, since the object of the tournament is to select the top courtmen at M.I.T. for the varsity next Spring.

In the frosh tournament, Stanley Roggenburg came out on top, wearing down Sanford Stoutenburg, 8-6, 6-3, 6-0.

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# CALENDAR

## FRIDAY, NOVEMBER 14

5:00 P.M. Senior Week Committee Meets—Litchfield Lounge.  
8:00 P.M. A.I.Ch.E. Meets—Litchfield Lounge.

## SATURDAY, NOVEMBER 15

12:00 Noon Novars vs. Harvard J.V.—Harvard.  
2:00 P.M. Interclass Track Meet—Briggs Field.  
3:00 P.M. International Club Dance—Wellesley.  
8:00 P.M. Menorah Society Dance—Pritchett Hall.

## MONDAY, NOVEMBER 17

6:30 P.M. Bull Session Dinner—Pritchett Hall.  
8:00 P.M. M.I.T. Chemical Society Meets—Room 2-390.

## TUESDAY, NOVEMBER 18

5:00 P.M. Debating Society Meeting—Litchfield Lounge.  
7:30 P.M. Student Staff Meeting—Litchfield Lounge.

### Institute Comm.

(Continued from Page 1)

for by Congress a few weeks after the approval of the original budget.

#### Ski Team

The ski team appropriation was made after the members of the Committee had investigated the organization and activities of the ski team, and its relation to the Outing Club and the M.I.T.A.A. The motion for the appropriation was tabled at the last meeting, until a committee appointed to find out the necessary information should report. Frank Herlihy, presenting the report of this Committee, announced that Tech's ski team was organized like those of the other New England colleges. Hans Aschaffenburg, '42, a member of the ski team gave the further information requested by the members, before the vote was taken.

The committee reports given at the meeting include a report of the Senior Ring Committee that rings would be delivered in the Main Lobby of Building 10 instead of to the owner's home as previously announced; and an announcement by the Walker Memorial Committee that in the future all organizations running dances should make arrangements before-hand with the Walker Memorial Committee for the payment of the taxes on the dance.

### Harriers Sixth

(Continued from Page 3)

Miller passed the finish line 44th, and Art Gow, the remaining scorer, finished in the 50th place.

#### Rams Win

The teams that competed were Rhode Island, Connecticut, Northeastern, Vermont, Maine, Technology, Bowdoin, Springfield, Tufts, Mass. State, B. U., New Hampshire, Bates and Colby. The squads finished in this order.

Yesterday evening the freshmen won a cross-country meet from the Tufts frosh, scoring a faultless score of 15 to the Jumbo's 45, on the latter's home grounds.

On the frosh team are Warren Spear, who was elected captain yesterday; Robin Stevenson, Pedro Cabral, William Rockholz, Harold Knapp, Dave Bailey and Collier.

### Stratton Prizes

(Continued from Page 1)

dollars. The material presented by a competitor may not take more than fifteen minutes to discuss, and need not be a report of his own original work. It is commonly a semi-popular elucidation of some development in the field of pure science or engineering which has or is likely to have a bearing on the progress of industry, commerce, or other aspects of public welfare.

Preliminary presentations of papers before the student societies serve as a means of selecting the candidates for semi-final competition, which is limited to three men from each professional department of the Institute. In the semi-final competitions before judges appointed from the staff, the number of competitors is reduced to six, and these present their papers at a convocation presided over by President Compton.

The seventeen departmental advisors as selected are Professors John D. Mitsch, Course I; Alvin Sloane, Course II; Robert S. Williams, III; Henry L. Seaver, IV; Miles S. Sherrill, V; Malcolm S. McIlroy, VI; Charles H. Blake, VII; Julius A. Stratton, VIII; Ralph G. Hudson, IX; Charles E. Reed, X; Hervey W. Shimer, XII; Evers Burtner, XIII; Rosh M. Cunningham, XV; Joseph S. Newell, XVI; Walter C. Voss, XVII; Raymond D. Douglass, XVIII; and Donald S. Tucker, Economics.

### Electron Microscope

(Continued from Page 1)

pound microscope enabled the formulation of the cell theory of life."

An R.C.A. electron microscope has been in operation in the Institute's Department of Biology since the middle of last July under the direction of a small, but enthusiastic group of Technology biophysicists headed by Dr. Schmitt. In the department of Physics, a second electron microscope constructed under the direction of Professor George G. Harvey is nearing completion. In the near future, two separate electron microscope centers will attack research problems from the organic and inorganic point of view respectively.

#### Ultra-Short Waves

Using for its source of "light", a narrow beam of electrons of ultra-short wave length, the microscope focusses this beam by means of a "lens" system of electromagnetic fields, which may be compared to the condenser and lenses of the compound microscope. The focussing of the electron beam on the photographic plate is accomplished by varying the current through the magnets, and thus changing their magnetic fields.

To the biophysicist work with the electron microscopes presents many difficulties. For obtaining many pictures all the objects must be thoroughly dried so that they can be introduced into the vacuum chamber. This means that work must be confined to dead material almost exclusively. Drying and killing the object may introduce artifacts into the picture which were not originally present in the living cell. The interpretation of electron microscope pictures is therefore a matter requiring great experience.

### Novars Downed

(Continued from Page 3)

block the punt. After sorting out the pile of players, the referee awarded the ball to Tech. McBride smashed the line for a gain; Henning passed to Evans—first down and goal to go. Then Bunn was thrown for a loss on a try around right end and the Novars elected to try a field goal on their last down. They were unsuccessful and lost the ball on the Apprentices' fifteen-yard line.

#### Tech Rallies

A Fore River fumble started a Tech rally in the last of the fourth quarter. They passed for six yards; ran the ball for a first down; bucked the middle and reached Fore River's twenty. Just as a touchdown seemed certain, the horn blew and the game was over.

Tomorrow the Novars reach the high point of their season when they play Harvard Junior Varsity.

The lineup for the Fore River game was as follows: L.E. Dunwoody; L.T. Fleming; L.G. Givens; C. Foote; R.G. Anisz; R.T. Sadowski; R.E. Evans; Q.B. Leader; R.H.B. Bunn; L.H.B. Hathaway; F.B. McBride.

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### Outers Plan Week-End With Mount Holyoke

Walter G. Wells, '43, will lead a dozen Technology men through a strenuous program of square dancing and hiking at Mount Holyoke College during the week-end of November 15-16. After leaving Walker Memorial at 1:30 P.M. on Saturday, the group plans first to attend the annual I.O.C.A. square dance at Holyoke, and then to spend the night at the Holyoke Cabin. Sunday is to be spent in hiking, with the return to Cambridge scheduled for some time that evening.

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