

## TECHNIQUE ELECTORAL BALLOTS IN SATURDAY

Last Chance to Turn in Ballots  
At Information Office Set at  
1 O'clock by Committee —  
Hare System Explained

### LARGE VOTE EXPECTED

Saturday at 1:00 o'clock has been set as the last chance to turn the Ballot for the Technique Electoral Committee in at the Information Office. The committee wishes to stress the point that the more men who vote, the more representative will be the resulting body.

Donald F. Carpenter '22, editor-in-chief of this year's Technique, has written for THE TECH the following explanation of the Technique Electoral Committee and how it functions:

#### The Electoral Committee

The Technique Electoral Committee is a committee of 25 members of the Sophomore Class elected in the middle of the year by a popular election. The object of the committee is to elect a board of publication of the Technique to be published by the class the following year, the board being made up of the following: Editor-in-Chief, Business Manager, Treasurer, Societies Editor, Portfolio Editor, Athletic Editor, Grinds Editor, Statistics Editor, Faculty Editor, Photograph Editor, two Associate Business Managers, Art Editor, two Associate Art Editors, and Associate Editor.

(Continued on Page 4)

## GRAPPLERS TO MEET SPRINGFIELD Y. M. C. A.

Humphrey and Thomas Out of  
Running—Briggs to Show In  
158 Pound Class — Scott  
Wrestles for Humphrey

### CUBS TO WRESTLE ANDOVER

The Institute matmen meet Springfield Y. M. C. A. College tomorrow night at 8 o'clock in Walker with two of the Beaver's contestants out of the line-up. This is the team's first home meet.

Thomas, who held down the 153 pound berth, is "hors de combat" due to injuries sustained in the Princeton meet, while Watts Humphrey, the 175 pounder, has been ordered by his physician to forego mat-work for a while, due to an injured back.

However, there is no misgiving as to the sort of opposition the secretary grapplers will meet tomorrow afternoon. Davis, the Beaver's 115 pound mat man doesn't know the meaning of the word "defeat", while Captain Butler's work in the 145 pound class needs no comment. Richards will be in the 135 pound bout and Warburton the 125 pound class.

Russell will represent the Institute in the heavyweight class, while Briggs and Scott have been selected to hold down the 158 and 175 pound berths respectively.

#### Freshmen Meet Andover

Last Friday's affair in which the frosh wrestling team was physically prominent and pre-eminent, resulted in a fiasco for Choate school to the tune of 25-5.

The Beaver cubs meet a more worthy opponent tomorrow when they will journey to Andover. The line-up of the Tech cubs is as follows: McPherson, 115 pound class; Tuttle, 125 pound class; Weatherley, 135 pound class; Ames, 145 pound class; Warner, 158 pound class; Graham, 175 pounds class. There will be no bout in the unlimited class.

### WORK ON THE RANGE DELAYED

Completion of the rifle range has been delayed by the strike and by the recent cold snap, the latter holding up the pouring of the concrete. However, according to present indications, the range will soon be ready for use.

## CHESSMEN USED AS MISSILES CAUSES CLOSING OF LOUNGE

A battle royal of chess men raged in the east lounge of Walker, Tuesday night, judging from appearances. In the confusion resulting from the flying pieces, the globe of the chandelier was pierced. Whether or not the propelling force was that of a human hand or that of some other motive power is a matter of conjecture, nevertheless, to prevent a possible recurrence of such a battle, waged by human beings with chess men as missiles, Dean Alfred E. Burton has ordered the closing of the lounges, both east and west, at 5:30 o'clock every afternoon. To obtain the use of the room after that time, the applicant must register with the Walker Committee and proceed in the usual way to gain admittance.

## T. E. N. LESS TECHNICAL

Appears Monday With More  
Human Interest Stories

With the appearance of the T. E. N. Monday, stories of more interest than have been published in the past will be found. It will contain fewer technical stories and more of human interest. The feature of the magazine will be an article on pile driving. This should appeal to course II Juniors especially as they are taking a course in "foundations of structures" this term. Part of the article is devoted to the details of the laying of the piles of the Harvard bridge. Another interesting paragraph contains the details of the piles of the Willamet bridge in New York, which were laid a hundred feet under water. It is written by a Technology graduate, J. W. Rollins '78, president of the firm of Holbrook, Cabot and Rollins. "Geographical Distribution of Tech Men" is an article telling of the distribution of the graduates throughout the world, and gives the proportion of these men from the various courses. A new form of cement which is so porous that nails can be used to hold slabs of it together is explained thoroughly. The name of this remarkable substance is "por-ete."

## CO-OPERATIVE SOCIETY SHOWS HEALTHY GROWTH THIS YEAR

The Harvard Co-operative Society, in its semi-annual report issued by Professor W. B. Munro, '99, president of the society, shows an increase of more than \$39,000 in sales over the corresponding six months in 1919, and an annual total of sales of more than a million dollars.

The total sales at the main store and the Technology branch during the period from July 1, 1920, to Dec. 31, 1920, are \$515,712.56. The net profits show an increase also of \$3947.93 over the corresponding period of 1919, and the total net profits for the past six months are recorded as \$67,080.57.

The membership of the society has grown by more than 1000, the present total being 7026 as compared with 5963 in 1919. Plans are under way to start next spring, if the costs of construction are favorable, on the erection of a new main store at Harvard Square, which will have three floors of selling space and will be considerably larger than the present quarters, also being equipped with every modern retail store facility.

At a recent meeting of the society, Mr. Jasper Whiting of Boston was elected to the board of directors to represent the Institute.

## CUT BALLET TO 20

The Tech Show ballet, after arduous rehearsing, has been reduced until the following men have survived the last cut: Girls, J. W. Strieder '22, C. F. Harvey '23, H. V. Harper '24, C. B. Miller '22, J. K. Macomber '22, G. Putnam '23; Chief, F. O. Rickers '22; Traveller, W. H. Donnelly '23; Danseuse, W. C. Gray '23; Robbers, F. M. Kurtz '22, E. K. Duvey '24, G. A. Rowen '23, H. R. Ten Eyck '22, W. D. Elmer '22, C. K. Crofton '22, C. T. Robbins '24; Soldiers, P. P. Hughes '24, T. H. Royd '23, G. H. Cowan '24, L. W. Kendrick '22.

The ballet depicts the story of a traveller who is held up by robbers and rescued by soldiers.

## Pick Mile Relay Team to Win

Quartet Runs Harvard at B. A.  
A. Games Tomorrow

Yard Chittick, Bill Gurney, Ollie Bardes, and Mich Bawden, composing the mile relay that races Harvard in the B. A. A. games tomorrow night, are expected to bring home the bacon. Coach Frank Kanaly has put his best into this team and it is one of the speediest that have represented the Engineers in the last few years. Unless the Crimson has a superlative team, this victory is assured.

The two-mile team which faces Dartmouth and Syracuse, is a fast team,

but its prospects are not as bright, for Bawden and Bardes, two of the Institute's best half-milers, are on the mile team and Syracuse has a wide reputation for the superiority of its half-milers.

In the 50-yard dash Ted Bossert and Jack Poole have been picked to represent the Institute. Al Hayes, who won the fast hundred in the Harvard meet last spring, could not prove the class necessary for a place.

Earl Eby, the Penn star, Jake Driscoll, who won the quarter in the New England last spring, and O'Brien are among those who will run the 600-yard event. Earl Thomson, the famous Dartmouth hurdler, and Landon, the Yale high-jumper, are slated in their respective events.

The games are to be at the Arena, which has a 146 yard track, and is in consequence an improvement over Mechanics Building which has only a 130 track. All the tickets in the Technology section have been sold.

The frosh relay, consisting of Rowe, Read, Houghton, and Tench, has Dartmouth, Holy Cross, and Boston College freshmen for opponents. The yearlings have a good chance for a victory, although little is known of the respective abilities.

## Varsity One-Mile Relay Quartet



Left to Right—Chittick, Bardes, Bawden, Gurney

## OFF FOR WESLEYAN AND AMHERST TODAY

Natators Will Show Speed at  
Amherst—Tomorrow Swim at  
Middletown—Damon and Wil-  
liams Strong

BOTH TEAMS BEAT HARVARD

Prepared to score a win over Amherst and Wesleyan the Technology swimmers will leave today on the second trip of the season. As both of the adversaries have downed Harvard, and Amherst has defeated Springfield this year, the fish may have a hard fight.

As far as the plunge is concerned, three good men, Boyce, Kendall, and Stalbird have been battling for first place, and they seem to be making about the same distances of 64 and 75 feet. The 220 will be another trump in the hand of the engineers, and fast time may be expected from the relay. The Institute will have a mighty hard fight in the 50 at Amherst as Captain Damon holds the Intercollegiate Championship for this event. Although Palmer's time of 27 seconds last week was apparently rather slow, he took first place, and incidentally took a handicap of over a second at the start. At Wesleyan, Captain Williams is expected to make trouble in the century. His time is 57 2-5 seconds.

Both meets will be held in the afternoon. The team will go to Amherst first, and will remain there for the night. Saturday morning the natators will go to Middletown.

## AERO MECHANICIAN ARRIVES

Staff Sergeant Peter O'Rourke has been detailed for service with the Military Science Department at the Institute. His duties will probably consist in caring for the airplane engines and assisting in the instruction of those in the Air Service Unit. He has seen nine years' service in the army, part of which time he spent as pilot in the Air Service. Previous to being sent to Boston, Sergeant O'Rourke was stationed at Mitchell Field.

## CUBS SCORE AGAIN

Give Strong Brookline Team a  
Jolt in Four Events

Piling up an overwhelming score of 36-17 against Brookline High yesterday afternoon, the yearling watermen added a second victim to the season's roster. Every event was closely contested, the plunge being marked by excellent work by Gates and Henniger, who took first and second places.

Captain Marsh and Dunn defeated their opponents in both the 50 and in the 100, but in the dives, Kemp and Buerger found that the springboard was stiffer than they were accustomed to, and added only one point to the Institute score.

The relay was featured by close competition from the start. Dunn gained a slight lead in his laps, but Brookline cut this down to less than a foot before Marsh started. The race finished with victory when he came in only a few feet ahead of the Brookline anchor man.

The victory is rather significant as Brookline was champion of New England last season. The real test of the ability of the freshmen will come next week, when they meet Worcester, Saturday at Worcester. Worcester defeated Huntington's strong team which the engineers lost to two weeks ago.

#### The Summary:

Relay: Won by Technology, Dunn, Marsh, Taylor, Oxnard. Time 2.2 2-5.  
50 Yard Swim: Won by Marsh, T. Dunn, T. second, Williams, B. third. Time 1.6 3-5.  
100 Yard Swim: Won by Marsh, T. Dunn, T. second, Williams, B. third. Time 1.6 3-5.  
220 Yard Swim: Won by McHardy, B. Evans, T. second, Dunham, B. third. Time 3.10 3-5. (Thomas who was second was disqualified for not touching the tank at the end of the second lap.)  
Dives: Won by Williams, B. Schect, B. second, Buerger, T. third.  
Plunge: Won by Cates, T. 61 feet. Henniger, T. second, Terzis, B. third.

## JUNIOR PROM SIGN-UPS ON SALE FEBRUARY 23

The announcement that the Junior Prom will be the only Technology dance on the night of Friday, March 18, has suddenly put a stop to those rumors which have recently been circulated to the effect that the Class of '23 would run a "Baby Prom" on this date. According to present indications it will be possible to accommodate all who wish to attend, for the entire downstairs of the Copley-Plaza has been secured for the occasion.

Signups will be put on sale on Wednesday, Feb. 23, and will be disposed of for \$4.00. Particular attention will be paid by the committee towards arranging for decorations and favors.

Leo Reisman will conduct the best combination of 15 musicians that can be secured for the occasion.

The Prom, which will come as the crowning attraction of the day, will get under way at midnight, following immediately upon a theatre party which is planned for the earlier part of the evening, and will run until 5 o'clock.

## WHIPPLE TO SPEAK AT TEMPERANCE SOCIETY

Prof. Sedgwick was to have spoken before the Unitarian Temperance Society on "Public Health" in the Unity House, 7 Park Square, Boston, at 7:45 o'clock. In his place Prof. G. C. Whipple is to speak on "The Life and Work of Prof. Sedgwick."

The faculty and student body are earnestly invited by the Society to attend this meeting. Those attending who will notify the ushers that they are from Technology, will be admitted without ticket.

## CALENDAR

- Friday, February 4**
- 7.15 Daily trip to Stanley Steamer plant. M. E. Soc. main lobby.
  - 1.30 Cosmopolitan trip, main lobby.
  - 7.00 Chess Club Matches.
  - 8.15 Musical Clubs at Newton High. Catholic Club Dance, Copley-Plaza.
- Saturday, February 5**
- 5.00 Junior Week Committee meets, faculty room, Walker.
  - 6.30 Boston Bact. Club meets, faculty dining room, Walker.
- Tuesday, February 8**
- 5.00 Meeting of artists and literary men of Voo Doo.
- Wednesday, February 9**
- 5.00 Meeting of Business Candidates of Voo Doo.
  - 7.30 Naval Architecture Soc. Smoker, north hall, Walker.
  - 7.45 C. F. Soc. Smoker, north hall, Walker.
- Thursday, February 10**
- 8.00 Sophomore Valentine Hop, main hall, Walker.
- Friday, February 11**
- 8.00 Masonic Club Dance, main hall, Walker.
- Tuesday, February 15**
- 5.00 Meeting of artists and literary men of Voo Doo.
  - 5.00 M.I.T.A.A. meets.
  - 6.30 Episcopal Club meeting.

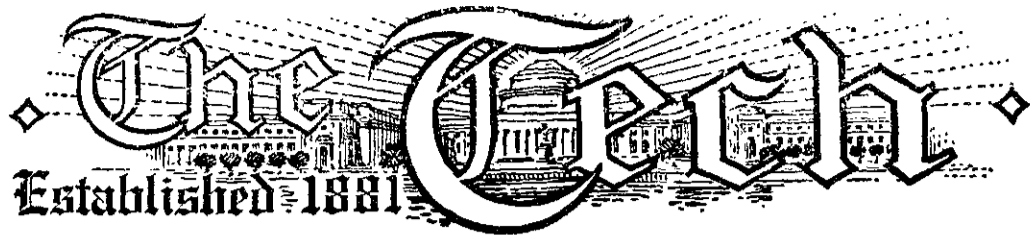
## DON'T MISS THE T. E. N.

To help all readers of the T. E. N. to save money for Junior Week, we are offering a special arrangement for the next five issues. For 75 cents you can buy a coupon book, good for all five copies, thereby saving 25 cents. Grasp your opportunity.

On sale Monday and Tuesday, February 7, 8.

C. W. GREENING

Acting Circulation Manager  
Tech Engineering News



MEMBER EASTERN INTERCOLLEGIATE NEWSPAPER ASSOCIATION

Published semi-weekly throughout the school year, and during the summer vacation by the students of the MASSACHUSETTS INSTITUTE OF TECHNOLOGY

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FRIDAY, FEBRUARY 4, 1921

YOUTH IS WITH US

**A**N unfortunate incident occurred in the East Lounge of Walker Memorial on Monday night. As the result of rowdiness and acts of a schoolboy nature, an electric light fixture of expensive design was broken. Because of this affair both lounges will be closed hereafter at five-thirty. As usual, a few selfish and thoughtless individuals will cause the innocent majority to suffer.

It seems to us that this act of thoughtlessness or indifference is evidence of an attitude which is apparent in many ways around Technology. It is shown by the men who are responsible for the present condition of the telephone booths and by the men who throw cigarettes in the corridors. We hope some day to be engineers. An engineer has to think continually of other people and he has to serve the community. Men who indulge in such performances as that on Monday night have no thought for their fellows, nor do they serve the community. We, on account of our training, should be in a position to realize the value of our buildings and their fittings, but apparently these men have not attained that position.

Let us all attempt to rid ourselves of this thoughtless and indifferent attitude, which will be an obstacle in our engineering career. We can do this by having some thought for our fellow students and by showing respect for the buildings in which we are obtaining an education.

A MUCH NEEDED IMPROVEMENT

**T**HAT Walker Memorial needs some sort of a driveway or curbstone is very evident to a number of us who attend dances there. In rainy weather those who bring their friends in cars cannot well alight upon the muddy terrace which, at such a time, is nearly always a veritable quagmire. The only alternative is to drive up over the terrace on to the sidewalk. However, this scatters mud all over the walk and not only makes the walk and the grass-plot very unsightly but makes the former quite disagreeable to less fortunate dancers who have to walk to the dance and who therefore are compelled to dodge the mudballs scattered across their path.

It would be a very easy matter for the Institute to put in a small paved driveway; or, better yet, build a walk out to the edge of the terrace upon which one can alight and thus not only save the patience of pedestrians but also preserve the appearance of the terrace and walk as well. An opportunity for you, Institute Committee.

A FIFTY-FIFTY JOB

**T**HE manner in which many of the walls around the Institute have been cleaned remind us of the small boy who washed his face and hands, but leaves a dirty ring around his neck and wrists.

In building two this is most noticeable. The lower half of the walls have been washed clean but about six feet above the floor the tell tale ring appears. Above that the dark sooty deposit stands out in sharp contrast to the clean lower half.

It is not the custom of Technology to half do things. We suggest that the cleaning be completed and in the future the walls either be entirely cleaned or else the dirtiness be not exaggerated by such a distinct line.

FROSH SELL TICKETS

Tickets for the 1924 Dance, which will be given in Walker Memorial on Feb. 24, will go on sale on Monday at noon. The attendance at this affair, which will be formal, will be limited to 150 couples. Tickets admitting one couple will sell for \$3.00. The music will be furnished by Bert Loew's orchestra, while the decorations and refreshments will surpass the standard attained in this respect at other Institute dances, at least so say the members of the committee, which consists of G. W. Bowers, chairman; A. J. Kemp, G. W. Knight, M. F. Taylor, and H. E. Whitaker.

Much favorable comment has been heard on the execution of the posters, and it is expected that the dance will be a complete success.

LARGE ATTENDANCE AT M. E. SOCIETY SMOKER WEDNESDAY

The Mechanical Engineering Society Smoker, last Tuesday evening was one of the best attended smokers of the year. About 150 men were present in the main hall of Walker Memorial.

Professor Hayward spoke first, on the different phases of mechanical engineering. The other speaker was Professor Miller, whose subject was the cost of maintaining the Institute. These addresses were followed by several reels of movies, mostly on technical subjects. There were, however, also two comedy films.

A special M. E. cheer was devised for the occasion and copies of it were distributed through the audience. Music was furnished by the Robbins brothers.

COMMUNICATIONS

To the Editor of THE TECH:— This communication is to clear up some misunderstanding of the writer of the letter in THE TECH issued on Feb. 1.

If the writer looks at things in that way, the things in the world are related to one another indefinitely, but don't we realize that we prefer to live according to the principle of the "Right person for the right place"?

Regarding the Waltham trip, a member of the Club may not have found any interest in the Cosmopolitan Club's trips, but he may find great interest in the Club in some other lines. Regarding the mathematical questions, those two questions just simply meant "Is the gain and the loss balanced?" It is not to be solved by applying regular mathematical ideas, but to be understood by applying common sense. The indirect method of expression is sometimes found more interesting and more effective than direct method of expression.

There are two kinds of intellectual training for a person, one from engineering and scientific education, and another from personal association. The former is not so hard as it seems; the latter looks like pleasure but is often difficult. I know a person very well, but I would not tell people "Who he is?" I tell "What he is?" He was good in his school work, receiving highest honors in college, but unsuccessful in doing business after graduation. The Cosmopolitan Club plays the most important factor of all to obtain intellectual training of personal society which is not in the courses of instruction of the school.

It is said that the word "NEWS" consists of the first four letters of North, East, West and South respectively. Reports coming from 4 directions constitute "NEWS." Reasoning according to the above "NEWS" coming from every corner of the earth, the word "COSMOPOLITAN" may consist of 12 letters—A. O.

(Atlantic Ocean), P. O. (Pacific Ocean), I. O. (Indian Ocean), L. (Link), T. (Toward), M. (Magnetized), C. (Compass), S. (South), N. (North Atlantic Ocean, Pacific Ocean, Indian Ocean link toward magnetized compass (North, South) is called Cosmopolitan Club. The compass points out S. and N. meaning "Social News," and not E and W, or "Engineering Weight." (This expression is to be understood as in case of mathematical questions, and does not apply to the regular theory of magnetism, geography, etc.) Having two succeeding engineering trips before having a regular meeting in the first five weeks of the new term does not fit the above mentioned Club.

Regarding the scope of the Club, it is proportional to the efficiency of each member. Regarding the trip:—A small number of men attended it and enjoyed themselves. What are the remaining large number of men going to do? Do they wait for another chance? Prof. Sedgwick proved himself "Yesterday is gone, tomorrow may never come." Here we have clear witness to the fact, "Today is ours." The next trip or meeting of a member may never come. Let's all go together and share equally in the day's meeting.

The writer says "To refute in further detail the mentioned article is not worth while." I beg to say if he looked at the articles from the same standpoint as he regarded my mathematical questions, he, of course, found them not worth while. He also says, "It is not by a communication to the Editor of THE TECH— I beg to say, "How many members are in the Club and how many of them attend meetings or trips?" (my humble opinion regarding present substantial condition of the Club and graphical representation of the Club in 1917, 1918, 1919, etc., will be disclosed at the earliest possible meeting as it is for the members of the Club only.) How long does it take to communicate suggestions of a member to every member of the Club? I therefore borrowed a column of THE TECH in M. I. T., where we live under the same engineering and scientific family roof to reach everybody interested. The power of the Club as a whole to command itself is influenced by its members who offer suggestions, together with such suggestions as may be made by outsiders which latter are sometimes of even greater value. That's one way, I think, to keep the Club not down, but up and on.

Mr. President refers me to the constitution of the Club. Good; the constitution will be wrong and need amendment if I am not wrong. Mr. President refers me to the opinion of the majority. Good; the majority will have to be wrong if the constitution is wrong. A person who is defeated quantitatively is not always defeated qualitatively.

S. SAWAMURA '23.

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## INDUSTRIAL EUROPE SUBJECT AT SMOKER

Editor of Engineering News-Record to Give Illustrated Lecture at Civil Engineering Society Meeting

HAS SPOKEN HERE BEFORE

E. J. Mehren, editor in chief of the Engineering News Record will present a few observations on Europe to members of the Civil Engineering Society Wednesday evening, Feb. 9 in north hall, Walker. The smoker begins at 7:30 o'clock and not only smokes, but refreshments and music, are on the evening's program.

Mr. Mehren has recently returned from an extensive inspection trip to Europe and while abroad gave particular attention to such matters as the British industrial situation and reconstruction in devastated regions in France. He collected a number of interesting photographs which will be shown on slides at the smoker.

Mr. Mehren is no newcomer to Institute halls. Several years ago he appeared before the Civil Engineering Society and made a lasting impression.

## NOTICES for Undergraduates

The trip to the Lynn General Electric Plant by Corporation XV has been postponed from February 9th to February 16.

A meeting of all men interested and engaged in Industrial Service Work will be held in the back office of the T. C. A. Monday afternoon at 5 o'clock.

Professor Carle R. Hayward of the Mining Department will speak at the meeting of the Boston Section of the American Institute of Mining and Metallurgical Engineers at the Engineers' Club, Monday Evening, February 7th, on "Some Experiences in Sulphating Ores."

Professor William Emerson, head of the Department of Architecture, will give an illustrated lecture on Housing Problems at the Boston Public Library under the auspices of the Women's Municipal League, February 10 at 8:30.

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OPEN COMPETITION FOR GOLF MANAGER

The golf team is planning a schedule of matches for this spring. Those joining the golf club may have the use of a course in or near Boston at nominal cost this spring. A competition for the managerial positions will be inaugurated next Monday, Feb. 7, and will last for five weeks. The competition is open to freshmen and Sophomores. Two Sophomore assistant managers will be chosen, one of whom will be manager next year, and three freshmen will be retained, one of whom will become assistant manager next year. The competition is open to golf club members. Anyone who plays golf at all may become a member by depositing the membership fee of 50 cents with the treasurer, F. N. Dillon '22. Candidates are asked to report to Manager G. Tidwood '22, in the M. I. T. A. A. office in Walker Memorial, Monday, Feb. 7, between 5 and 6 o'clock.

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\$65 grade reduced to \$49
\$60 grade reduced to \$47
\$55 grade reduced to \$43
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SPORTS

CRIMSON WINS VICTORY FROM VARSITY QUINTET

Engineers Lose Hard Fought Game by Score of 20 to 14—Keep Score Tied Up to Last Few Minutes of Play

WALKER PACKED FOR CONTEST

Basketball enthusiasts were treated to the best game seen at Technology this season last Wednesday night, when the Crimson quintet defeated the Engineers in a hard fought game by a score of 20 to 14. Superior work by the opposing forward trio, H. Tyson, Roscoe Fitts and J. Pallo, in the last few minutes of the game enabled Harvard to pile up the margin necessary to win the game. It was nip and tuck right up to the last sound of the whistle and was anybody's game at any minute.

The Engineers kept the score tied up to the last few minutes, ending the first half with the score, 9 to 9. Practically no goals from the floor were made during this half, most of the score being due to each side taking advantage of most of the free tries offered. Fouls were plentiful during this part of the game and Tillie Toton and Bill Boyer did not believe in letting opportunity slip past unheeded. The second half began with a pretty basket from the floor by Bill Boyer, putting the Institute into the lead. Several free tries were given and the score rose to a total of 13 to 11 in the Engineers favor.

A minute later however, Roscoe Fitts tied up the score by a basket from mid-floor, which whisked through the net in as clean a fashion as could be desired. Harvard seemed to be let loose by this shot and some rapid passing coupled with accurate shooting ran the score up to 19. The Crimson five then froze on to the ball and blocked any attempts of the Engineers to increase their score. Time fittered away and before one could realize it, the whistle blew, and Harvard was the winner.

Fitts and Pallo were excellent team mates for Tyson, feeding the ball to him and figuring themselves in the scoring whenever opportunity offered. Bill Boyer did especially good work for Technology, scoring three field baskets, and making good 5 free tries out of 8 offered. Coach Ayer's charges have profited from past experience and are becoming more proficient in that end of the game. Hubbard's work at guard is to be complimented on his close work. Sawyer was sent in for a few minutes for Bill Boyer, but the latter was sent back in again in a very few minutes. Bretting was back in the game and did not seem to be much the worse for his enforced rest.

HARVARD TECH
Pallo (McLish), Lf. Hubbard
Fitts, Rf. Blood
Tyson, C. Bretting
Chase, Lg. Sawyer
Fehring (Miller), Rg. Lf. Toton
Score—Harvard 20, Tech 14. Goals from floor (Individuals)—Pallo 3, Fitts 2, Tyson 2, Boyer 3, Piring 1. Goals on free tries (Individuals)—Boyer 5, Toton 3, Pallo 3, Fitts. Referee—Tower. Time—Two 20m. halves.

CALLS HEAVYWEIGHT BOXER.

Captain Addicks issues another call for additional candidates for heavy-weight boxer. A good man in the 125-lb. class is needed for the hard schedule this year. As the next match, that with the Navy, is not until the 19th, there will be plenty of time for a man to develop.

ANDOVER WALLOPS THE FROSH

The Institute freshman seven took a heavy defeat at Andover last night when they were beaten 10-1. The game showed some good individual play, but not enough team work. The only goal scored for the Beavers was by Robert Ross, captain.

CLUBS GIVE NEWTON HIGH SCHOOL CONCERT TONIGHT

Under the auspices of the Newton High School Debating Club, the Combined Musical Clubs will give a concert in the Newton High School tonight at 8 o'clock. Music for the dancing afterward will be furnished by the Musical Clubs' Jazz Band, and the dance will last till midnight. Tickets for the general public will be on sale at the door. Members of the Musical Clubs will take the 7.25 train from South Station, arriving in Newton at 7.50.

FROM THE DATE BOOK

Friday, February 4
7.45—M. I. T.-N. H. State basketball, Walker Gym.
8.00—M. I. T.-Amherst, swimming, away.
8.15—M. I. T.-Columbia hockey game, away.
Saturday, February 5
7.30—B. A. A. Games, Arena.
8.00—M. I. T.-Springfield wrestling, Walker Gym.
8.15—M. I. T.-Wesleyan swimming, away.

SWIMMING TICKETS WILL BE CHEAPER TO T. A. C. MEMBERS

T. A. C. members will hereafter be able to attend the home meets of the Institute Swimming Team at reduced rates, as a result of the action taken by the Executive committee at a meeting Tuesday. The entire lower section of the stands at the tankside of the Boston "Y" will be reserved for men holding T. A. C. memberships. The balcony will be the reserved seat section.

At the meeting, the committee voted to underwrite the swimming team's coming season, after a recommendation by Richard McKay.

By attending one of the meets at the "Y", one may see two meets for the price of one. Harvard has scheduled a meet on a night which was already reserved for the use of the Institute team for a meet, and agreed to turn over all gate receipts to the Institute.

MASS. AGGIES SKATE TO VICTORY

Institute Team Loses to Farmers 2-1 After Fast Game—Aggies Fast Skaters—Fordham Contest Canceled

HARVARD GAME FEB. 17

By R. M. HOMBERG, Sporting Editor

The Massachusetts Aggies sprung a surprise Wednesday night by defeating the Institute team 2-1 at the Boston Arena. The winning goal was made in the last minute of play after Mansell, the Aggies' player-coach broke away from the Technology defense and made an easy shot at the cage.

From the start the contest was exceptionally fast, the Farmers playing the Canadian type of game. After considerable argument, it was finally decided that seven men should be played in the first period and six in the last two. Technology was the first to score, when Taylor caught a rebound and shoved it past the Aggies' goaltender. Several times in the first period, the Farmers threatened to score but Hugh Nickle was on the job. Once, however, Hughie was over anxious and reached out his stick to ward off the puck and instead of heading it off, the rubber disc followed the stick into the goal for a tally which tied the score.

MacNeils' Show Clever Passing

The second period was scoreless and found Technology taking the offensive but with little success. Several times Dan MacNeil skated up the ice and shot for the goal, but Newell was right there and consequently little got past him. Had there been some one to follow up Dan to catch the rebound from the cageman's stick, the score surely would have been different. True enough, the MacNeil brothers, Dan and Neil pulled off some nifty passing, but much more of this sort of playing is needed. Captain John DuVernet again proved that he is an artful dodger in dashing down the ice.

The third period was a hard scrap between the teams to break the existing tie. Neil MacNeil had his troubles with Captain McCarthy of the Aggies and Taylor was busy tapping his opponent. Ed Delany finally went in for Taylor who showed signs of tiring. Raymie Skilton, captain of the Shoe Trades team, was the referee and met with much more approval from everybody than previous officials.

Fordham Game Canceled

The game with Fordham scheduled for tomorrow in New York has been cancelled as the members of the team did not feel that they could afford the time that it would take for the trip. So far no game is scheduled until the contest with Harvard on Thursday, Feb. 17. There is still another Boston College game to be played off and this is likely to be held next week.

PHOSPHOROUS APPEARS

Voo Doo appeared Wednesday after a month's seclusion, with a bust of Edgar Allan Poe on the cover, designed by H. B. Kane '24. Copies of the issue may still be obtained at the Coop and Walker, and mailing envelopes are on sale at the Voo Doo office in Walker. Material for the Prom Number is coming in rapidly and judging by the quality of it, (the board predicts that) the issue should far surpass all previous numbers. It will come out just before Junior Week and will be sold at all the different functions of that week. All contributions must be in by February 15. Competition for the cover closed Tuesday.

EMPLOYEES SKIM CANALS

Four hours were consumed Monday morning by the employees of the Institute in emptying the hydraulic canals and skimming off the oil.

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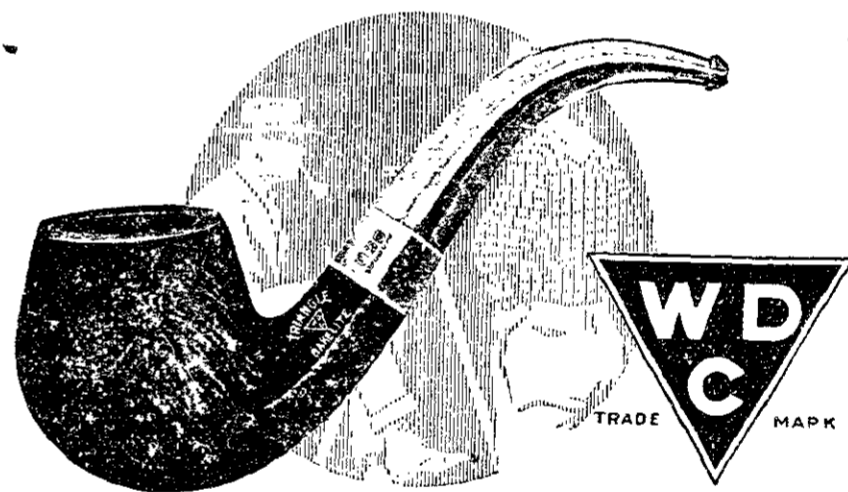


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## PRESIDENT DEPICTS INSTITUTE'S GROWTH

Report for the Year Records Increases and Changes in all Departments — Co-operation with Industry Successful

### AWARD MANY SCHOLARSHIPS

Technology has grown remarkably during the last year, according to the report of Acting-President Elihu Thomson for the year 1919-1920. The roster of students has greatly increased since last year over all previous years, necessitating a rearrangement of teaching facilities. All of the departments have been exceedingly active and several changes have been made in them.

Registrar Walter A. Humphreys reports the following statistics in registration. The registration up to November, 1920, showed a 67 per cent increase over that of 1918-1919 and a gain of 57 per cent over the largest previous registration, that of 1915-1916. There is a 35 per cent increase in the number of students of other colleges entering the Institute, 40 per cent of whom entered the upper classes.

### Graduate Courses Increased

The chemical and graduate courses showed the largest increases in the number of students registered. More students, in proportion, now come from a distance than from adjoining districts. The Western States lead in this increase, the South Atlantic and the North Atlantic following in the order named. Foreign students now constitute 3 per cent of the student body now, 32 countries being represented. Canada sends 38 students and China 40, these being the largest aggregations from foreign countries. The average age of the tender freshman is 18 years and 11 months. The professional courses showed a larger proportional increase than the scientific, 76 per cent against 38 per cent. The Mechanical Engineering course still has the largest number of students. Following it comes the Chemical Engineering Course, and after that the course in engineering administration.

Undergraduates received 317 scholarships of \$295.00, awarded by the Faculty committee. A total of 352 students received aid through action taken by this committee.

### Bonus Awarded Instructors

A bonus was awarded the instructing staff in lieu of an increase in salaries. This action was only temporary and, as soon as a careful consideration of the matter can be made, permanent action will be taken. To accommodate the increase in the number of students, the classes were subdivided into smaller units various were repeated, and the number of instructors was increased. An event of importance was reported for the Department of Civil and Sanitary Engineering. The War Department has decided to send a group of 37 officers to complete the requirement for obtaining a bachelor's degree in that department. They will attend the regular classes. The ninth session of the surveying camp showed that the cost for food and miscellaneous expense of students was reduced from \$1.47 per day, of the previous year to \$1.46, the total charge being \$77.38 per man. The camp in underground surveying was held at Park Hill, near Corinth, Ct. The department also reports that the demand to fill jobs classified under this head far exceeded the supply, especially on sanitary engineering.

### Departments Combined

The Department of Mining and Metallurgy has been combined with the Department of Geology and Geological Engineering under the title of the Department of Mining, Metallurgy, and Geology. This department is in charge of Professor Waldem R. Lindgren.

Professor William Emerson has succeeded Professor Stephen Codman in charge of the Architectural Department. He was engaged to reorganize the department. Mr. Albert Ferran has been obtained as a professor in architectural design. He is a graduate of L'Ecole de Beaux Arts and winner of the Grand Prix de Rome in 1914.

The Department of Chemical Practice in Engineering has resumed its activities under the leadership of Professor Haslam. Three stations are in operation, one at Bangor associated with the Eastern Manufacturing Co., and the Penobscot Chemical Fibre Co., one at Buffalo in conjunction with the Lackawanna Steel Co., and the Larkin Co., and one at Everett, Mass., in cooperation with the Merrimac Chemical Sugar Refinery and the Boston Rubber Shoe Co. The Du Pont fellowship has been in existence the last two years. The Monsanto Chem-

ical Co. donated a fellowship last year and the Grasselli Chemical Co. one this year.

### Research Department Active

The department of Industrial Cooperation and Research has been exceedingly active in the last year. This department was organized a year and a half ago for the purpose of obtaining closer contact between manufacturers and contractors, and the Institute staff so that the professors could work on the solution of such problems as were submitted to them. The department reports that the plan is an unparalleled success. Up to November 6, it has handled 406 queries. There are 204 companies contributing and the annual retaining fee for this service amounts to over a quarter of a million dollars. The plan has not struck a blow at pure research, as was thought by some, but has provided the means whereby more of an opportunity for this kind of work is available. For this purpose there is an annual fund of \$6000 and this is constantly growing.

### Undertakes Huge Index File

In order to carry on its work the department is undertaking to index over 3237 names of men who are especially able to solve problems which come in the scope of the department. These names will constitute a Technology "Who's Who" as all of them are former students of the Institute. The department has also undertaken the task of arranging for the employment of Institute undergraduates after graduation, by cataloging a record of their work and qualifications and arranging for personal interviews between the students and representatives of various companies. This work will in a way supplement the efforts of the various departments now.

### CATHOLIC CLUB DANCE

Last night about 300 couples were present at the dance given by the Catholic Club. The affair was held at the Copley Plaza, and lasted from 9 until 1 o'clock. Music was furnished by the Fandel 15 piece orchestra, unknown to previous Technological dances. The matrons were: Mrs. Channing Cox, Mrs. Alvin T. Fuller, Mrs. Andrew J. Peters, Mrs. Henry P. Talbot, Mrs. A. L. Merrill, Mrs. James A. Kiley, and Mrs. M. J. O'Conner.

### TECHNIQUE ELECTORAL BALLOTS IN SATURDAY

(Continued from Page 1)

The committee meets three times a week until its business shall be concluded.

Due to the long delay before the first decision was reached last year, the Technique Board has proposed several amendments to the Electoral Committee Constitution, which have been accepted by the Institute Committee. These amendments will, it is hoped, improve the system of voting and prevent, to a certain extent, the playing of politics for which the last committee was criticized.

Immediately after its election this year the committee will meet under the chairmanship of the president of the class, and it is expected that under the new constitution it will conclude its business in less time than last year's committee.

Regarding the Hare system of voting, the system which is to be used for election to the Technique Electoral Committee, D. F. Carpenter '22, editor-in-chief of Technique 1922, gave out the following statement last night:

Due to the dissatisfaction expressed by the members of the Sophomore class relative to the Hare System of voting for the Technique Electoral Committee the following points should be of interest.

This system was adopted by the Institute Committee; the Technique Board and previous Electoral Committee had nothing to do with its adoption.

The system is looked at in the wrong light. The idea of the system is to give to every group of a certain number of voters a representative on the committee. In this light there is no question that it works very well. There

## ILLOISIT

A gold watch and chain. A gold pencil and a knife were attached to the chain, and also an M. I. T. Musical Clubs Charm With the initials "F. L. R.". Will the finder please return this to the office of THE TECH or to F. L. Raymond, '22.

is no idea of putting on the most popular men in the class, for this would defeat the purpose. The Electoral Committee is to elect the Technique Board, and in doing so it should have representatives from all the factions in the class in order that all possibilities should be considered.

The question is raised, "Is it fair if I vote for 25 men and none are elected?" If this is the case it shows that the ideas of the voter were not agreed upon by a sufficient number of other voters, and he therefore should not be represented.

The Hare System had proved very satisfactory in all cases, and there is no reason why it should not do so in this. If the voter will look at the matter from the standpoint of his representation rather than from that of his chance of being elected it will be clear that the system is fair.

### DISCUSS RUBBER AT SMOKER

The Chemical Society heard an address by Myron H. Clark of The United States Rubber Company, on the "Manufacture of Rubber," in north hall last Tuesday evening. The executive board met last night to arrange for trips and smokers for this month.

### FIFTEENS POSTPONE LYNN TRIP

Corporation XV has postponed its trip to the General Electric Company, which was to have been taken on the 9th. The excursion will be made on the 16th it was announced today. The trip should prove of interest to a good many XV men particularly those in XV-2. R. H. Rice, General Manager of the Lynn Plant will address those members of the corporation who take the trip, and there will be every opportunity to learn about the organization and work of these shops.

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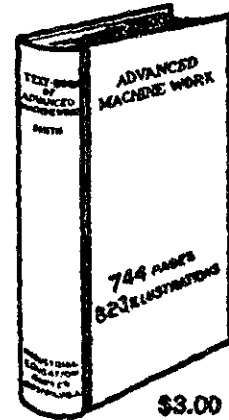
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HARVARD LEFT 50 YARDS BEHIND IN MILE RELAY RACE

Technology Short - Distance Quartet Swamps Crimson—Two-Milers Second to Syracuse, Beating Out Dartmouth FRESHMEN THIRD IN THRILLER

Duplicating its victory of last year over the Crimson, the Technology one-mile relay team administered an overwhelming defeat to Harvard's pride over the one-mile route Saturday night at the 32nd annual indoor games of the Boston Athletic Association...

Harvard Wins Pole But That's All The Institute's two-mile team sort of got an even break out of the three-cornered race in which Dartmouth and Syracuse were the other entries...

The freshman relay team figured prominently in the big thrill of the games, with Boston College freshmen, Dartmouth freshmen, and Holy Cross freshmen opposing them...

Dick Chute of Harvard had the pole over Jim Downey for the start of the one-mile relay and Chute got the first corner. Coach Kanaly's original lineup called for Chittick to run first but the order had to be shifted due to

(Continued on page 3)

'Y' THROWS INSTITUTE

Three Bouts Run Into Over-Time Periods

Although handicapped by the temporary loss of three of their best grapplers, the Beaver matmen put up such a fight with the Springfield Y. M. C. A. Saturday at the Walker gym, that the latter had to work mighty hard for the meager "3" that gave them the victory, 14 to 11.

The opening ceremonies were conducted by Davis of Tech and Anderson of the visitors, contestants in the 115 pound bout. Anderson obtained the decision in nearly six minutes. Davis was out of wind before the bout was up, and but for this fact would have given the "seances" a different ending...

Freshmen Have Easy Time of It The frosh grapplers were furnished with a little recreation Saturday by Andover, at the latter's quarters, to the extent of 21-5. The record of the massacre is as follows:

One hundred and fifteen pound class—McPherson of Tech threw Johnson of Andover. Time, 5 min., 1/2 sec.

One hundred and twenty-five pound class—Graham of Tech threw Cummings of Andover. Time, 1 min., 30 sec.

One hundred and thirty-five pound class—Wotherly of Tech threw Stone of Andover. Time, 3 min.

One hundred and forty-five pound class—Ames of Tech obtained a decision over Capra of Andover.

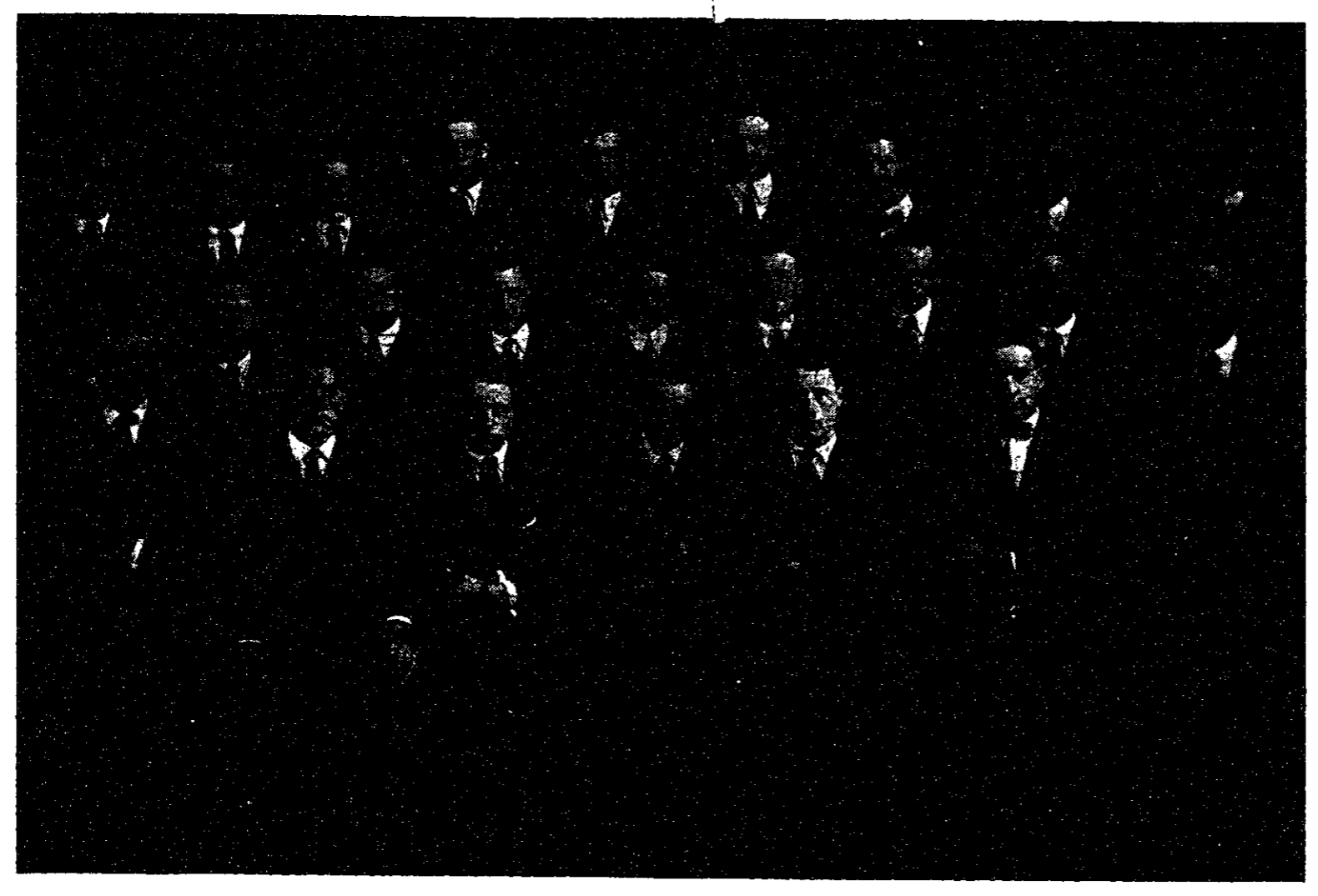
One hundred and fifty-eight pound class—Shepard of Andover threw Lamereux of Tech. Time, 2 min.

Heavyweight class—J. Graham of Tech threw Kiern of Andover. Time, 4 min.

SPECIAL STORY ON MILLROSE

THE TECH will have a special correspondent at the Millrose A. A. games in New York tonight covering the meet for this paper. Friday's issue will carry a full and detailed account of the performances of Technology's entries in the meet.

Tech Show Management Now Complete



Back Row, Left to Right: Joyce, Fitch, Dunlaevy, McPhee, Searles, Randall, Thompson, Coolidge. Middle Row, Left to Right: Smith, Williams, Pratt, Nixon, Ham, Cowie, Carven, Scofield. Front Row, Left to Right: Bartow, Jennings, Beadle, Sherbrook, Richards, Simonds.

The itinerary for "The Purple Dragon," the 23rd annual production of Tech Show, will include a trip to Northampton, Mass., Manchester, N. H., and Portland, Me., besides the usual performances in Boston. Arrangements are being made with the management of the Academy of Music at Northampton for the lease of that theatre for Saturday evening March 12. Due to an agreement made with the faculty concerning Junior Week the show members have promised not to cut any classes...

It is planned to leave Boston after the last condition examination for Manchester, N. H., on a special train, Wednesday afternoon, March 16. After the evening performance the

troupe will leave on the special train for Portland, Me., where they will give two performances March 17, provided a financial guarantee can be obtained.

The company will return to Boston that evening and give three performances in Boston; Friday evening, March 18, and on the afternoon and evening of March 19.

The production of the show is entirely an undergraduate production, the various members of the management being chosen by competition. The management consists of: the general manager, who is a senior, a business manager, who is a junior, three sophomore assistant managers and three freshman assistants all of whom are selected on a competitive basis. The stage department is under the direct charge of a junior who is assisted by two sophomores and two freshmen. The publicity de-

partment is likewise headed by a junior who has two sophomore and three freshman assistants. The personnel of this year's management is composed of: General Manager Stuart Nixon '21; Ass. Gen. Managers, J. G. Lee '21, H. W. Smith '22; Business Manager, Fearing Pratt '22; Treasurer, H. C. Ham '22; Stage Manager, L. K. Cowie '22; Publicity Manager, O. G. Williams '22; Assistants, Business Department: Sophomores, W. K. Coolidge, R. E. Sherbrook, W. D. Scofield; Freshman, W. C. Bartow, J. R. McPhee, R. M. Simonds, W. L. Thompson. Assistants, Stage Department: Sophomores, H. I. Beadle, Hall Kirkham; freshman, E. P. Dunlaevy, J. D. Fitch, T. H. Joyce. Assistants, Publicity Department: Sophomore, T. O. Richards, W. L. Searles; freshman, W. A. McCartney, D. B. Jennings, A. D. Kellog.

HOOVER MEAL RAISES FUND FOR CHILDREN

Dinner on February 16 to Cost \$5.00—All Profit Goes to Starving Children in East and Central Europe

LEONARD METCALF '92 PRESIDES

To make up Technology's share of the American Relief Fund for Europe there will be a "Hoover Dinner" held in Walker Memorial at 6.30 o'clock, February 16. Under the direction of Herbert Hoover a campaign is being carried on to supply the barest necessities of life for the children of eastern and central Europe. All American colleges have been raising money in various ways, to contribute to this humane and essential cause. Technology will do its part through a dinner similar to the famous affairs held in New York and Boston.

College Girls Will Serve The menu will be similar to that provided for the children by American generosity, consisting of stew, bread and cocoa. For this meal \$5.00 will be charged. It is hoped that the attendance will be large enough to support 200 tots for the winter at the rate of \$10.00 apiece. In other words 400 undergraduates, Faculty, and Alumni are expected to attend.

College girls will serve the dinner. The committee running the affair, appointed by the Institute Committee with I. D. Jakobson '21 in charge, has made arrangements with several private and art schools in the neighbor-

(Continued on Page 4)

SWIMMERS SPLIT EVEN ON TRIP

Technology Mermen Smash Two Tank Records in Wesleyan Pool—Stalbird Takes First Place in Both Meets

DAMON SWIMS 50 IN 24.4

The varsity amphibians tasted both defeat and victory on their week-end trip, losing by a single point to Amherst, 27-26, and winning from Wesleyan, 36-17. At Middletown two pool records were smashed, one by the relay team over the 160 yard course, and the other by C. D. Greene in the 220 swim.

Greene was at his best in both meets, and took first in the Amherst meet against Whitcomb, a rather formidable opponent. Biddell beat out Amherst's star captain, Damon in the 100, and tied for second in the 50. In this event, Damon broke the tank record, with a time of 24.45.

(Continued on page 3)

SOPH HOP PLANS COMPLETE

The arrangements for the Soph Valentine Hop which will be held Thursday evening in Walker Memorial now bear an appearance of completion. A rather novel order for the evening, consisting of serving supper after all the dancing is over, has been decided upon. This action was made necessary by the ban on dancing after midnight. However, the affair will start at 8 and run until 1 o'clock.

AIR SERVICE UNIT HAS SUMMER CAMP

Juniors Will Spend Six Weeks At Fort Sill, Oklahoma—Air Service Also Makes Bid for 500 Regular Cadets

MEN SHOULD APPLY AT ONCE

Colonel Christian announces that he has received a letter from the Chief of the Air Service, Washington, D. C., saying that authority has been requested of the Adjutant General to have all students taking the advanced air service course attend summer camp at Post Field, Fort Sill, Oklahoma. The camp will begin about June 16, 1921. The observation school is located at Fort Sill, and the men will be trained in this branch of the work.

The advanced air service course is still open to juniors and seniors. The men attend a six weeks' camp after the junior year, and upon graduation they receive commissions, and serve as officers in the air service for six months.

Wanted 500 Cadets

The air service has also been authorized to enlist 500 cadets. The requirements are in general the same as for West Point. A high school education is required, and the men receive the same status as the cadets at West Point. The men sign up only for the duration of the training course, ten months, and may be dropped for unsatisfactory work.

(Continued on page 4)

PICK ELECTORAL COMMITTEE FOR TECHNIQUE 1923

Sophomores Select Men to Pick the Members of Next Year's Technique Board—Put Before Institute Committee Thursday

289 BALLOTS ARE CAST

The twenty-five men who will constitute the next Technique Electoral Committee were announced last night. The Hare System has been used for the first time and the elections will be placed before the Institute Committee for ratification Thursday.

Of the 774 ballots which were mailed to members of the class, 289 found their way into the ballot box. Therefore the quota for election was 12 first votes or their equivalent. Six men were kept busy on Saturday afternoon counting the votes and they completed the count that afternoon.

The successful candidates follow in order of their election:

- G. R. Johnson, Delta Psi. S. Hazard Jr., Beta Theta Pi. P. B. Brown. E. A. Adams. C. A. Brantingham, Phi Beta Epsilon. F. O. Billings, Theta Delta Chi. A. C. Hampton, Technology Dormitories. H. H. Flather, Delta Kappa Epsilon. Hall Kirkham, Sigma Chi. W. L. Merzbach, Zeta Beta Tau. G. I. Carper, Technology Dormitories. E. C. Linn. J. C. Wilson, Delta Kappa Epsilon. J. A. Pennyacker. A. R. Holden, Theta Chi. H. C. L. Miller, Jr., Chi Phi. A. S. Webb. H. I. Beadle, Sigma Alpha Epsilon. J. M. Keck. Stevens Bromley, Lambda Chi Alpha. R. L. Hershey. W. T. Howland, Kappa Sigma. S. P. MacDonald. J. H. Little. E. H. Schmitz, Alpha Tau Omega.

S. C. R. SET IN USE

Last Saturday night the Radio Society gave a concert over the air by means of the two kilowatt pliatron Signal Corps Radio set which was brought to the Institute by Lieut. J. T. Watson to be shown to the Department of Military Science and the members of the Radio Society.

The set, which is of a new design intended for the army, is carried on a truck from the engine of which electric power is generated for the apparatus. A portable antenna carried on the machine completes the equipment. The set has a radius of 1000 miles and under very favorable conditions this can be doubled.

The Society is also installing a long wave set which will be able to transmit messages to Europe.

DINNER IN CHINATOWN

The managing board and staff of the Tech Engineering News will meet tonight at The Royal on Harrison Avenue, at 6 o'clock for dinner.

CALENDAR

- Tuesday, February 8 5:00 Meeting of artists and literary men of Voo Doo 7:30 Naval Arch. Society Smoker, main hall, Walker 7:45 C.E. Society smoker, north hall, Walker Wednesday, February 9 5:00 Meeting of business candidates of Voo Doo Thursday, February 10 8:00 Soph. Valentine Hop, main hall, Walker Friday, February 11 6:00 Cosmopolitan Club Meeting and Dinner, faculty dining room, Walker 8:00 Masonic Club Dance, main hall, Walker Monday, February 14 2:00 Chemical Society leave main lobby on trip to Boston Woven Hose and Rubber Co. Tuesday, February 15 5:00 Meeting of artists and literary men of Voo Doo 5:00 M.I.T.A.A. meeting, library, Walker 6:15 Episcopal Club Dinner, faculty dining room, Walker Wednesday, February 16 5:00 Meeting of business candidates of Voo Doo Thursday, February 17 8:00 Menorah Society Lecture, faculty dining room, Walker Friday, February 18 10:00 T.A.C. Dance after basket ball game



Published semi-weekly throughout the school year, and during the summer vacation by the students of the MASSACHUSETTS INSTITUTE OF TECHNOLOGY

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MANAGING BOARD

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IN CHARGE THIS ISSUE

H. S. Griffith ..... G. I. Carper

TUESDAY, FEBRUARY 8, 1921

IN the last issue of THE TECH ENGINEERING NEWS we notice an advertisement of the Western Electric Company which contains such good material that we are quoting it in full:

PLAY UP, PLAY UP, AND PLAY THE GAME!

"As I get to know more about life in general and the electrical industry in particular, I like to think of everything as a game," said the old grad. "You've got to keep your eye on the ball and your mind alert for the main chance.

"Not long ago I tackled a job that nearly threw me. It called for some pretty heavy arm work and shoulder work but mostly head work, before I broke down the obstacles and made my goal.

"Right now the hurrahs from the grandstand are ringing in my ears—by which I mean that the boss said in his extravagant way, 'Good!'

"I know what helped me to turn the trick. Back at college I put in some hard licks on the football field, and that training to think fast in a pinch and to keep plugging with the odds against me certainly stood by me when I graduated from football togs to overalls at the electrical works.

"So I'd like to offer this experience of mine as evidence on a disputed question, 'Is taking part in athletics a waste of time?'

"Certainly you want first of all to get your math and your lab down pat. But to my way of thinking physical work will help you master them, because it leads to good health and a clear mind—a combination you can't beat.

"Start out in business with this capital and you'll find it backing you at every stage of the game, helping you to fight your way through and work out in a practical way your highest ambitions."

The electrical industry needs men who can see far and think straight.

GRADUATE STUDENTS

THE figures given out by the Committee on Admissions last week show that over half the new students this year either are college graduates or have been transferred from other colleges, and that over half the student body is in the two upper classes. These facts indicate a growing tendency to take an engineering course as post-graduate work, or at least after part of a college course. While the Institute is never likely to become entirely a graduate school, on account of the number of men who cannot afford to spend several years in an arts course before taking up their professional training, the tendency must be recognized. As the Committee points out, a continued increase in the number of graduates and transfers will necessitate a more extensive program of advanced work than is now offered. The importance of these students to the Institute requires that every opportunity shall be given them, for if the Institute is to remain a leader in technical education, no one must be allowed to turn away because he failed to find here the opportunity for study in the particular line he sought.

JUNIOR WEEK IS NOT FAR OFF

JUNIOR Week will soon be here and there should be great rejoicing by the multitudes of Technology men who do their share toward the support of the Copley Plaza and the Brunswick. This is the time of times here at the Institute, the time when all good Technology men bring to light their real choice in respect to the fair sex, and there is much dancing and making merry in general. Junior Week comes but once a year, and so, although it may seem to come at a rather inconvenient time this year let us remember that it is a long time to another Junior Prom and let us all turn out in solid ranks and have the best Junior Week the Institute has ever seen. What say, ye who shake the wicked hoof?

E. J. MEHREN TO DISCUSS LABOR SITUATION AT SMOKER

Results of Trip to Europe Subject of Talk at Smoker Tomorrow

An illustrated talk upon the present condition of Europe will be given to members of the Civil Engineering Society by E. J. Mehren, editor-in-chief of the Engineering News-Record, to-

morrow evening in north hall, Walker Memorial. Smokes will be furnished, and refreshments will be served at the close of the meeting.

The lecture is based upon a recent and extensive trip through Great Britain and France to study the labor situation across the Atlantic and to study the problem of reconstruction in France at first hand. The slides shown are from photographs collected by Mr. Mehren personally.

COMMUNICATIONS

To the Editor of THE TECH:—

In your last issue of February 4, an article in regard to the Junior Prom contained the following sentence—"The announcement that the Junior Prom will be the only Technology dance on the night of Friday, March 18, has suddenly put a stop to those rumors which have recently been circulated to the effect that the Class of '23, would run a 'Baby Prom' on this date." Unlike most rumors, this 'Baby Prom' rumor was well founded and an explanation is therefore forthcoming to the Class of '23 men.

During the first week of last December, a few Sophomores discovered that the Copley-Plaza would not be available for the Junior Prom on the specified date in March on account of the Motor Show. As such a situation would cause the Juniors no little uncertainty, and as the Underclass Prom of last year had been so successfully held in the Somerset, it seemed advisable to secure the same hall for a Sophomore Prom to be held in Junior Week this year. Accordingly the Sophomore President appointed a committee and the hall was secured as was also Bert Lowe's 15-piece orchestra. After the holidays when the committee again met, it was decided that the Prom should be open to Freshmen as well as Sophomores, and the whole affair began to assume a very definite and attractive form. Unfortunately, when the Junior Prom Committee pointed to the fact that there would not be enough men attend Junior Week this year to run two proms. Owing to this fact and as the Copley-Plaza had in spite of difficulties been secured, the Sophomores thought it advisable to withdraw their arrangements in favor of the Juniors. Thus it is that the rumor mentioned above has ceased to circulate—not because of any announcement by the Juniors, but because the Class of '23 does not wish in any way to hamper, for selfish reasons, the success of any Institute function, especially one as sacred as the Prom. DENTON MASSEY '23.

SHOW ORCHESTRA MAKES FINAL CUT

Announces Names of Successful Candidates After Sunday Practice—J. R. Wolf Is Concert Master

WILL CONSIST OF 22 PIECES

The last cut of the orchestra for Tech Show has been made and the list of men definitely decided, according to information received. A practice was held Sunday and the announcement was made that the following will constitute the orchestra that will play in Tech Show:

- First violins: J. R. Wolf '22, Concert Master; A. D. Matarese '22, H. R. Kurth '21, A. F. Newman '23, C. A. Clarke '21, H. R. Clark '24, A. M. Bavitt, C. E. Roche '23, J. S. Double-day '22.
Second violins: A. S. Myers '23, L. N. Brown '22.
Cello: J. A. Pennypacker '23.
First Clarinet: H. L. Cobb '22.
Second Clarinet: E. A. Hardin '21.
Oboe: E. P. Thayer '24.
Flute: K. P. Coachman '22.
Bass: C. Starbuck '22.
French Horn: L. F. Hickernell '22.
Baritone: E. W. Willis '23.
First Cornet: G. E. Farmer '22.
Trombone: W. A. Case '21.
Piano: A. H. Fisher '22.
Drums: L. Graves '24.

MONEY AWAITS STUDENTS

One hundred and eleven men have money coming to them from the Technology Christian Association's Book Exchange, consisting of a total sum of \$250. This amount has been collected through the buying by students of books and other material turned in for sale by other undergraduates. The former owners of the volumes can claim their cash by calling at the T. C. A. office any week day between 12.30 and 1 o'clock.

NOTICES

for Undergraduates

Advisory Council on Athletics will have regular business meeting at Engineers' Club tomorrow evening at 7:30 o'clock.

"Dickenson's Contemporary Drama" used last term in E-51 is desired by Professor R. E. Rogers. Students desiring to dispose of their copies are asked to see Professor Rogers before tomorrow noon.

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Thurs. Fri. & Sat. ROSCOE ARBUCKLE in "THE LIFE OF THE PARTY"
CORINNE GRIFFITH in "THE BROADWAY BUBBLE"

BIBLE STUDY ATTRACTS MORE UNDERGRADUATES

And still they come. Starting off with a total number of eight enthusiasts, the number has now swelled to an attendance of thirty members of the Bible. The next convolve of the Bible study classes organized by the T. C. A. comes this afternoon at 5 o'clock in room 2-180. Professor Haven will lead the group in a discussion on "The Life of David," while Professor Seaver has for his topic, "Human Engineering." In view of the ever increasing ranks of those interested in this study, more classes are to be formed which will meet at hours to be arranged shortly.

MOVING PICTURES TO BE SHOWN AT SMOKER

A smoker, the program of which is to consist entirely of moving pictures, will be given by the Naval Architecture Society in Walker Memorial, on February 9 at 7.30 o'clock.

The feature picture entitled "Queen of the Seas," consists of several reels of ship construction pictures taken by the Western Electric Company in their shops. A short business meeting will be held preceding the pictures to elect an honorary chairman to the American Society of Naval and Marine Engineers. After the smoker the usual refreshments will be served.

AYDELOTTE WILL SPEAK AT COSMOPOLITAN CLUB DINNER

The first get-together of the term of the Cosmopolitan Club will be held at 6 o'clock Friday evening in the faculty dining room, Walker Memorial, and will include supper, an illustrated lecture by Professor Frank Aydelotte on Oxford College, and a short business meeting. Professor Aydelotte received a degree at Oxford and will tell various anecdotes of English college life. The proposed amendments to the constitution which are posted in the main lobby will be voted upon at this meeting.

A successful trip was made last Friday to the Chestnut Hill Pumping Station, which is one of the most modern pumping stations in New England. More trips are planned for the future, a list of these will be published at the meeting on Friday.

TICKETS ON SALE TODAY FOR EPISCOPAL DINNER

Tickets for the Episcopal Club banquet to be held February 15 in the Faculty Room of Walker Memorial have been mailed to those men who have attended the meetings of the club this year.

Men not of the Episcopal Church are welcome to come to the dinner and may obtain tickets at \$1.25 the cover from Eastman Smith '22.

The club has obtained two speakers for the evening: Dean Rousmaniere and Rev. Mr. Tyler. The dinner will start promptly at 6.15 o'clock.

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FROM THE DATE BOOK

Tonight
Millrose A. Games, New York.
Friday, February 11
Basketball, freshmen at N. H. State frosh.
Saturday, February 12
Swimming, freshmen at Exeter.
Swimming, Brown at Boston 'Y'.
Basketball, freshmen at Exeter.
Wednesday, February 16
Basketball, Varsity at Tufts.
Basketball, freshmen at Tufts.
Thursday, February 17
Hockey, vs. Harvard at Arena.
Friday, February 18
Basketball, Bates at Walker.
Saturday, February 19
Fencing, Columbia at Walker.
Basketball, Aggies at Amherst.
Swimming, Varsity at Amherst.
Swimming, freshmen at Andover.
Boxing, Navy at Annapolis.
Wrestling, Varsity at Norwich.

TEA FOR OARSMEN

Tea has been strongly recommended to Manager L. B. Davis '22, for his crew candidates and he has arranged to serve tea with crackers and marmalade to the men when they come out of the shells this spring after practice.

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SPORTS

Brown Porpoises Meet Beavers

The battle between Brown and Technology Saturday, will probably be as thrilling a meet as has been staged this season. Brown is bringing with them their freshman star, David Jones, and Greene will have to show some fast time to hold his laurels in the 220. Dave has made practically the same record as Greene's, that is two minutes, 32 and a fraction seconds.



Although defeated, the Institute wrestlers made an impressive showing against the crack Springfield 'Y' team Saturday. Three of the seven matmen started for the first time this season, taking the places of the first string men on the injury list, and all three lost their matches.

Briggs, who attempted a comeback after being out of the running so far this season on account of injuries sustained in practice, failed to come through although he showed better knowledge of the mat game than his opponent.

Bert Weber, second to C. D. Greene only in the 220-yard swim, failed to take the trip with the Institute mermen to Amherst and Wesleyan Friday and Saturday, "on account of scholastic duties". Our team lost to Amherst by the margin of one lone marker, with Trowbridge, a sprint man, taking third in the 220. Had Weber shown up we might have won the meet.

It was Al Hayes and not Jack Poole who was chosen with Ted Bossert to represent the Institute in the 50-yard dash Saturday. Hayes is again exhibiting the form that won him first place in the Harvard meet last spring in the fast time of 10 seconds on a wet cinderpath.

Malcolm S. McGhie '22, of Montclair, N. J., was elected tennis manager by the M. I. T. A. A. as a result of a stiff competition for the job left vacant by the resignation of Joe Greenblatt some weeks ago. McGhie prepared for the Institute at Hill School and is a member of Phi Gamma Delta fraternity.

Mich Bawden has sure-enough tough luck. He was running in great form, all set for his best season, when he pulled a tendon and could not get into the mile relay which defeated Harvard at the B. A. A. games Saturday night.

Incidentally, speaking of this race, Burt Whitman, sporting editor of the Boston Herald, said it was the worst beating he ever saw Harvard take.

Clark Greene, last year's swimming captain, had a big week-end, copping first place in the furlong swim at Amherst and repeating at Wesleyan where he smashed the tank record.

Students will have their first chance to see their swimming team in action Saturday night when the Institute mermen meet Brown at the Boston Y. M. C. A. The lower section of the pool will be reserved for T. A. C. members. Brown has a good swimming team. Last year's meet resulted in a victory for the Bruins by a narrow margin.

YEARLINGS LOSE 38-15 TO WORCESTER SWIMMING STARS

Overwhelmed 38-15, the frosh natators took their second defeat of the season at the hands of Worcester Academy at Worcester, Saturday afternoon. Although captain Marsh showed some good swimming in the relay, 50 and century, the academy took almost every first place.

The relay race was close, and the Engineers held the opponents to a scant three feet at the finish line. Dunn took second place in the 100, coming in only a few feet behind Marsh.

CUBS CONTINUE WINNING

The yearling quintet played their second game away from home last Saturday when they met Tabor Academy at Marion in a return match, and their clean slate was still unmarred when the final whistle blew. They returned victors by a score of 33 to 28. The game was very rough and was slowed down considerably on account of the many fouls. The score at the end of the first half was 22 to 19, in favor of the frosh. Davidson and Lehan starred for the visitors.

Brown is pinning hopes on the relay, but will meet a speedy quartette here. In the plunge the visitors will enter two men, who are each making distances up to 63 and 64 feet. The Beavers have shown better records than this however, in practice. The line-up of the Institute will probably be the same as in last week's meets with the exception of the 220 in which Webber will swim, and in the plunge Stalbird and either Kendall or Boyce will represent the Engineers.

SWIMMERS SPLIT EVEN ON TRIP

(Continued from Page 1)

In practice, Boyce, Kendall, and Stalbird have been working very evenly in the plunge, and all three men were taken with the team. At Amherst, Stalbird took 5 markers for first place, with a distance of 65 feet, 6 inches, with Boyce second. At Wesleyan, Stalbird again scored, with Kendall a second by only six inches. The summaries:

Relay: Won by Amherst (Whitecomb, Spear, Barker, Damon); second, Technology (Cotton, Towbridge, Palmer, Biddell). Time 1 min. 46s.
Dives: Won by Ewer, A.; second, Ferdinand, T.; third Purinton, T.
50-yd. dash: Won by Damon, A.; second, tie between Barker, A. and Biddell, T. Time 24 4-5 s.
220-yd. Swim: Won by Greene, T.; second, Whitcomb, A.; third, Trowbridge, T. Time 2m 42s.
Plunge: Won by Stalbird, T. 65ft. 6 in.; second Boyce, T.; third, Davis, A.
100 yd. dash: Won B. Biddell, T.; second, Damon A.; third, Colton, T. Time 62 4-5 s.
Dives: Won by Morgan, W.; second, Ferdinand, T.; third, Purinton, T.
40 yd. dash: Won by Williams, W.; second Palmer, T.; third, Biddell, T. Time 20 s.
220 yd. Swim: Won by Greene, T.; second, Biddell, T.; third, Johnson, W. Time 2m 37 1-5 s.
Plunge: Won by Stalbird, T. 60ft; second, Kendall, T.; third, Stickland, W.
100 yd. dsh: Won by Williams, W.; second, Colton, T.; third, Trowbridge, T. Time 1m 2-3s.

HARVARD LEFT 50 YARDS BEHIND IN MILE RELAY RACE

(Continued from Page 1)

Bawden's injury. Chute maintained the lead gained through holding the pole throughout the three laps and handed over a three-yard advantage to the second Harvard man.

But Ollie Barden jumped his man on the second lap and opened up a comfortable lead for Bill Gurney who ran third. Gurney lit out like the proverbial deer and when he passed the baton to Yard Chittick Technology was about 35 yards to the good. Chittick held his own and a little more in the final relay and Harvard took what a prominent Boston sporting writer termed "her worst beating ever".

Sanborn in Mile and a half Jack Hennessy ran first for the Institute in the two-mile relay and led the other two men until the last lap when Syracuse took the lead and maintained it to the end. Carol Stone finished up for Technology and staved off a desperate effort by Coackley of Dartmouth to wrest second place from him.

Burt Read of the freshmen landed in second position out of four runners in the freshman race at the end of the first relay but Dartmouth ousted Technology from this position on the second relay and they drew across the finish line in third place.

The one-mile team will enter the Millrose A. A. games in New York tonight, the same men comprising the team. The race is for the one-mile indoor championship of America. On the basis of their showing Saturday night the Institute runners should give a good account of themselves in Manhattan.

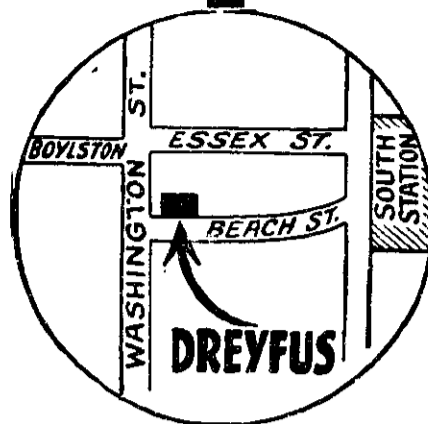
Elmer Sanborn will enter the Rodman Wannamaker special mile-and-a-half at the games tonight. His showing in the Hunter Mile at the B. A. A. games was very creditable considering he was competing with some of the best in the country. He did not win a place in the first three but showed that another year he will be a miler to be reckoned with in the Hunter chase.

PIN BOY INJURED

Horace Skinner, a pin boy in the Walker bowling alleys, was painfully injured last Thursday afternoon through being hit by a pin. The pin struck Skinner on the knee-cap and dislocated it. He was taken to the clinic office in Building 3 where first aid was given.

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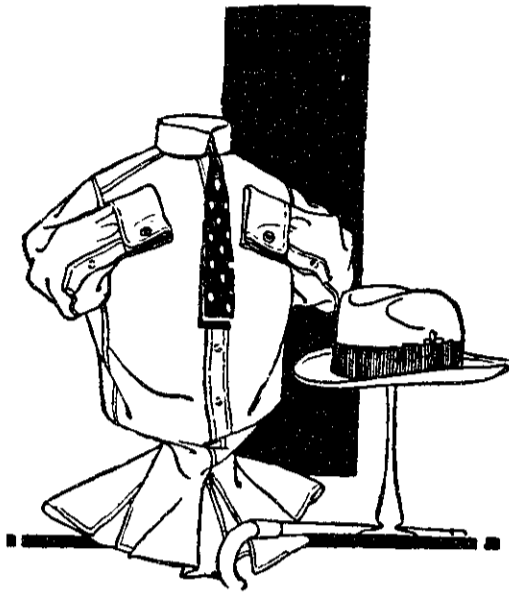
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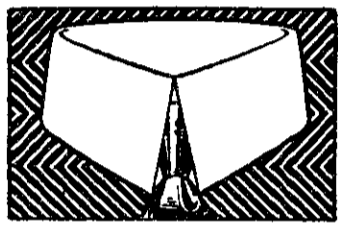


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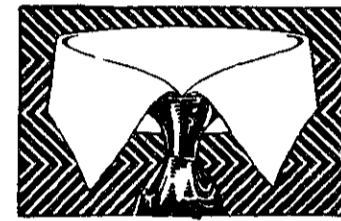
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### 17 PER CENT. OF STUDENTS HOLD COLLEGE DEGREES

According to figures recently prepared by Walter Humphreys, registrar of the Institute, 34 per cent. of those who attended the Institute during the last five years had attended other colleges. According to the statistics, the average age of Institute alumni is now 38, which is four years older than it was 10 years ago; and

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111 Summer St., Boston

whereas the early classes were small the recent ones are very much larger. Of 2718 considered, 921 had attended other colleges, and 489 had degrees from other colleges.

That business men realize the importance of technical education more than those engaged in other pursuits, is the result of the study of 1466 cases. Of these, the parents of 583 were engaged in business, 197 in professional pursuits, 43 government officials, 30 farmers, 258 were wage-earners and 219 retired or deceased.

### HOOVER MEAL RAISES FOR CHILDREN

(Continued from Page 1)

hood. Wellesley and Sommons have been invited to participate and will probably provide the majority of the waitresses if it can be arranged. After the dinner and speaking there will be dancing.

**Alumni President to Preside**  
Leonard Metcalf '92, president of the Alumni Association, will preside as toastmaster. The committee in charge of the dinner is making arrangements for several widely known speakers and already has the assurance of William B. Poland '90, Director of the European Relief Fund and Hoover's right-hand man in Belgium. Mr. Poland was director in charge of relief in Belgium and Northern France from December 1915 until the end of the war. In recognition of this service he was appointed officer of the Legion of Honor, Companion of the British Empire, and commander in the Order of Leopold.

Some time ago the Relief association asked the Institute to conduct a drive for European child-feeding. The Administrative Committee delegated the job to the Institute Committee which after a report on the possibilities here appointed the following committee: I. D. Jakobson '21, H. C. Gayley '22, R. E. Spaulding '22, A. L. Johnson '22, George Johnson '23, and Azel Ames '24. These men decided on the dinner method of raising the money and are getting things ready for February 16.

Most of the colleges have had no trouble in raising the fund and some of them have done remarkably well. Penn State collected \$3,000, Harvard \$7,500, Yale \$7,000, Barnard \$5,000, Oberlin \$1,800, Cornell \$4,200, Princeton \$7,000, California \$5,000, Vassar \$2,000.

### WORKER IN FOREIGN MISSIONS TO SPEAK

**Brewer Eddy Will Lecture on "What a Christian America Owes and Does not Owe to a Broken World"**

#### T. C. A. STARTS INNOVATION

At the first of a series of Sunday night meetings at Technology, Brewer Eddy will deliver an address in the Faculty Room of Walker next Sunday evening at 7.15 o'clock. W. M. Ross, secretary of the T. C. A., will preside at the assembly and is to introduce Mr. Eddy, who will ex-



BREWER EDDY

plain "What a Christian America Owes and Does not Owe to a Broken World."

Mr. Eddy was graduated from Yale in the class of 1898. For 11 years he has been associate secretary of the American Board of Commissioners for Foreign Missions. Having traveled through the Orient he knows mission problems at first hand, and

has had much to do with the establishment of educational institutions in Asia Minor. He speaks out of an intimate knowledge of the international problems confronting the United States in reference to the Near East.

During the war Mr. Eddy went to the battle zone three times, where he was a guest of the British General Headquarters on the Western Front and of the Commandant of Verdun; and he also visited four battle fronts during the summer of 1918. He has done a great deal of work with students in the colleges.

**Innovation for T. C. A.**  
The Technology Christian Association, in arranging a series of Sunday night meetings, plans them for the value of the addresses in themselves as well as their being preparatory for the coming of Sherwood Eddy, who will conduct a series of religious gatherings from April 12 to 14.

These conclaves come as a decided innovation for the T. C. A., for never before in the history of the T. C. A. has there been a similar three day's series.

#### AIR SERVICE UNIT HAS SUMMER CAMP

(Continued from Page 1)

Upon successful completion of the course, they may be commissioned in the active service or the reserve, as they prefer. If any of the men here are interested in this course they should consult the military science department at once, as it is necessary to make early application for the course, which is to start March 1. The pay is \$75 a month, \$1.00 a day for rations, and clothing furnished.

### RIFLE RANGE OPENS

**Manager Issues Call for New Candidates**

Competition for the Varsity and freshman Rifle Teams, and for managers will be opened at 4 o'clock this afternoon at the range, which is now complete and ready for use. There is every opportunity to make the team or to obtain a managerial position which may lead to manager of the Varsity team. A full schedule has been prepared including matches with Harvard, Dartmouth and Yale. The new range is behind Walker Memorial beside the athletic field.

#### Managerial Positions Open

There will be a position of manager of the freshman team with two assistant managers for the Varsity, and these places will be filled as soon as possible. The organization of the team has been held up for some time due to delay in the building of the range. The first N. R. A. matches will be run off at once, as the first two must be completed not later than Friday of this week.

Manager Hall expects a large number of candidates, and is going to make every effort to have the range open every afternoon after 3 o'clock in order that all team candidates may be able to practice. The equipment of the range will be in every way the equal of college ranges throughout New England.

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