

THE TECH

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BOSTON, MASS., THURSDAY, DECEMBER 18, 1913.

PRICE TWO CENTS

TECH MEETS DEFEAT IN HARVARD GAME

**Hockey Team Unable To Cope With
Harvard's Fast Squad—
Score 11 to 1.**

Tech was defeated by Harvard in the hockey game last night at the Arena. The score finally ended up 11 to 1, Tech being outclassed in dribbling, shooting, team play and defensive work. Time and time again a man would go down the rink only to be stopped by Harvard's defense, since he had no one to pass the puck to. On the whole, however, the playing was better than in the Tufts game. Cochrane and MacLeod, on both their defensive work and rushing, gave the Tech contingent chances to cheer.

For five minutes after the beginning of the first half, Tech displayed some good hockey. The defense showed up especially well, stopping all of Harvard's rushes until Hopkins scored the first goal for his team by his own efforts. A couple of minutes later Phillips scored also. Tech's only goal came when MacLeod pushed the puck into the net after receiving it on a pass from Cochrane. After that Harvard quickly made four goals, and the first half ended with a score of 6 to 1.

The last half was very rough, and men on both sides were penalized. Tech started with Toye in Storke's position, and later Chandler replaced Lowengard at goal. Harvard gave everyone on her squad a chance to play this period. Tech played the defensive for the most part, and Chandler made some good stops. Harvard scored five more goals, which ran the score up to eleven. Tech was unable to do anything in this line on account of the excellent defense of Harvard.

The teams started with the following lineup:—

Harvard	Tech
Hopkins, lw	lw, Storke
Phillips, c	c, Winton
S. Clark, r	r, MacLeod (capt.)
Smart, rw	rw, Fletcher
Claffin, cp	cp, Gould
Willets (capt.), p	p, Cochrane
Carnochan, g	g, Lowengard

SHOW BUSINESS CANDIDATES

Business Manager C. R. Lord of the Tech Show would like to see all men who are competing for positions in the business department of the Show staff. Candidates will please report at the Tech Show office at 4 o'clock this afternoon.

SOPHOMORE BASKETBALL

The Sophomore Basketball Team will play the Winthrop High School team tomorrow evening at Winthrop. This team has the reputation of being a fast squad and should furnish a lively game for the Sophomores. The line-up for the game has not been fully decided upon as yet.

The following is an extract from the Williams Record, giving one of their new fraternity rushing rules: "No person traveling to college with an entrant may make dates with him or rush him in any way."

"HEAVY FOUNDATIONS AND PIER WORK"

**Courses I, II, And X To Hear M. E.
Society Speaker Today In
11 Engineering B.**

This afternoon Mr. J. R. Worcester, of the J. R. Worcester Company, Consulting Engineers, will give a talk on "Heavy Foundations and Pier Work" in 11 Engineering B at 4.00 o'clock. The speaker has been procured by the Mechanical Engineering Society, and his talk will be of especial interest to all men in Courses I, II, and X.

Mr. Worcester is among the foremost civil engineers in the country. His specialty is bridges and structural steel work. He designed the viaduct across the Charles River used by the Boston Elevated Railway. One of his biggest pieces of work is the foundations and truss work of the South Station train shed. Perhaps his master achievement is the bridge across the Connecticut River at Bellows Falls. This is a one-arch bridge with a suspended floor, and is the largest of its kind in the country.

The Engineering Commissions of our largest cities, many times employed Mr. Worcester in the past for some of their larger engineering problems. He has been president of the Boston Society of Civil Engineers.

It will be decided at this meeting whether first term Sophomores are to be admitted into the Society. This was to have been decided at the last meeting, but the meeting had to be postponed.

WRESTLING MEET

**Tech Team Goes To Marblehead To
Wrestle Y. M. C. A.**

Next Saturday evening the Tech Wrestling Team will meet the Marblehead Y. M. C. A. Team. This is the second varsity meet of the season, and Captain Kelly expects a walk-away for his team. The men will leave on the 5.55 train from the North Station.

The matches are to consist of three in the 125-pound class, two in the 135-pound class, one in the 145-pound class, and two in the 158-pound class. There will be no matches in the 115 pound class and heavyweight class. The team which will represent Tech has not as yet been announced.

MUSEUM OF FINE ARTS

Next Sunday at three o'clock a Sunday Docent service will be held in the Museum of Fine Arts. Mr. Henry L. Seaver, assistant professor of English at Technology will speak on Auguste Raffet in the second print exhibition room at 3.45. Mr. Edward W. Forbes, director of the Fogg Art Museum will also meet visitors in the third gallery of modern paintings where there is a temporary exhibition of a collection of paintings from the Fogg Art Museum of Harvard University. Both of these talks are free to all.

Another Rhodes scholar has been picked for 1914. He is Charles R. Clason, a graduate of Bates College.

COSMOPOLITAN CLUB TO HOLD BRITISH NIGHT

**Sons Of England Will Entertain Club
—Lady Friends
Invited.**

This evening the Cosmopolitan Club will hold another of its National Nights in the Union at 8 o'clock. It is to be "British Night," and the entertainment will consist of some "British Songs" by Al. Taylor; "Tales of South Africa" by Eric Mason "Echoes of the Scotch Highlands" by Seamus, Chief of the Clan Fhyrgis; "The Court Jester" by F. C. Cleverly; and "The Niagara Fruit Industry," which will be an illustrated talk. This meeting will be an informal ladies' night, and will take the place of a formal Christmas party. The refreshments for the evening are to be characteristic English dishes and will include plum pudding.

B. A. A. MEET FEBRUARY 7

**Tech To Meet Dartmouth And Per-
haps Princeton Or Pennsylvania**

The B. A. A. games come on February 7. Arrangements have been practically completed to have Tech meet Dartmouth in the one mile relay. This is a regular event, but this year M. I. T.'s prospects are decidedly better than they were last year. The real event of the evening, however, will be the two-mile relay if the negotiations now pending with Pennsylvania or Princeton go through. Mr. George Brown of the B. A. A. is doing his utmost to bring about such a meeting. Both of these colleges stand high in the athletic world, and it would be a great thing for Tech if she should win this two-mile relay race. This would be especially true if Pennsylvania is her opponent, since her relay team will be composed of such stars as Ted Meredith, Madiera and McCurdy. The final arrangements for such a race have, however, not been made, and further details will appear in THE TECH.

MUSICAL CLUBS

The date set for taking the pictures of the Combined Musical Clubs has been postponed until January third. There will be no more rehearsals of the Mandolin Club until after the Christmas vacation, and after that there will be but one a week until mid-year. There will also be no more Glee Club rehearsals until further notice.

1917 EXECUTIVE COMMITTEE

There will be a meeting of the Freshman Executive Committee at 4.30 today in the Union. This meeting was to have been held yesterday but was postponed.

FIRST YEAR STUDENTS

Professor Miller will make a second appointment to meet first year students who wish to confer with him in regard to the course in Mechanical Engineering on Friday, December 19, at one o'clock in Room 11 Eng. B.

MR. EDWIN MULREADY TO SPEAK THIS NOON

**"Social Activities In A Tech Man's
Life" Subject Of Temperance
Worker's Talk.**

The T. C. A. will have one of the foremost and most active temperance workers in New England for the speaker this noon in the Union. Mr. Edwin Mulready of the Massachusetts Commission on Probation, will speak on "Social Activities in a Tech Man's Life." Mr. Mulready is not entirely unknown to Tech men, for last year he was one of the T. C. A. speakers, and had for his subject "The Other Fellow."

Mr. Mulready has recently returned from Milan, Italy, where he attended the International Congress on Alcoholism as one of the thirteen official delegates of the United States. He was chosen by President Wilson, and was the only New England representative. At this Congress there were over one thousand delegates, representing thirty-two governments. Mr. Mulready is secretary of the National Temperance Union of America, and president of the Brockton Temperance Society. He has held many important positions in several of the most active temperance organizations in New England.

The talk will without doubt be of considerable interest, especially since he recently attended the conference abroad. The T. C. A. expects to see a large number of men in the Union this noon at 1.30 to hear Mr. Mulready.

WEATHER

For Boston and vicinity: Unsettled, generally fair; moderate westerly winds.

CALENDAR

Thursday, December 18, 1913.

1.00—Professor Talbot talks with Course V—6 Lowell.

1.00—Professor Richards meets Course III Men—2 Rogers.

4.00—1917 Executive Committee—Union.

4.00—M. E. Talk—11 Eng. B.

4.00—Meeting Boat Club Officers—Union.

8.00—Cosmopolitan Club British Night—Union.

Friday, December 19, 1913.

12.00 M.—Professor Cross talks on Course VIII—11 Walker.

1.00—Professor Miller confers with students on Course II—11 Eng. B.

1.30—Professor Sedgwick talks on Course VII—27 Pierce.

8.00—1916 Basketball vs. Winthrop H. S.

8.00—1917 Basketball vs. Reading H. S.—Reading.

The number of summer military camps, recently established by the United States Government, for the purpose of giving field instruction to students of educational institutions, is to be increased next summer.

THE TECH

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THURSDAY, DECEMBER 18, 1913

In Charge of This Issue

Editor—E. F. Hewins '16.

Associates—W. A. Houser '16, R. C. Fellows '16, G. H. Stebbins '17.

Holy Cross

Manager Thomas of the relay team is right in the stand he has taken with regard to a race with Holy Cross at the B. A. A. games. Just why Holy Cross should desire to meet Tech at this particular time and place is somewhat of a question. Perhaps the answer is to be found in the result of the cross-country run on Field Day—perhaps not. At any rate, the Dartmouth relay race has always been a feature, not only of Tech's participation in the games, but of the games themselves, and we cannot see that there is much to be said in favor of changing the event in any way.

We should keep in mind the fact that we are now laying the foundations of things as they are to be at the New Technology. Men who are at present Sophomores will assume in the new buildings the duties of Seniors; while all the activities will be obliged to work under conditions of whose nature we have now little comprehension. The whole Institute should begin to get together to make undergraduate life as efficient and well organized as possible, in order that the shock of transfer and expansion may be successfully borne, and that the New Tech may go on as smoothly as the old.

We who are here owe much to the men who have gone before us building up a tradition and a spirit which we have only to maintain. It is no mean task which devolves upon us to see that what has meant so much to us is kept for the men who are to follow us in the NewTech.



The bulletin board that has been placed in the dressing room of the Gym, showing correct running position, is attracting a lot of attention. The middle distance runners are now being considered.

R. W. Bell '16, of the University of Maine, was elected captain of next year's cross-country team. He won second in the New England's this season and got second in the State Cross-Country Meet last year.

Wilson '14 led Wilkins '14 in a fast two laps yesterday. It seemed good to see the pair running together again.

The U. of M. is holding subscriptions for the running of its teams. At present the Association reports a debt of \$1400. The money is needed for better equipment of the athletic field. The Hon. E. H. Blake of Bangor has been seriously considering building the grandstand.

W. A. Sullivan '17 ran a plucky four laps yesterday in very good time.

M. A. C. started active work for an athletic field by a mass meeting at which the students subscribed or pledged a total of \$2611. The average pledge per man was about \$4.50. Some spirit!

Twenty-four men were awarded their "B" seconds at Brown.

O'Hara '17 took a fast work-out yesterday, running the two laps in 45 flat.

Over twenty-seven all American teams have been picked by football authorities.

A number of Freshmen are coming out for practice regularly and showing up very well. There still is a weakness in the pole vault, however.

Howard Drew, formerly of Springfield High, has decided to enter the U. of California.

Billy Queal, coach of the Yale C. C. team, is to run in the Powder Hall marathon in England on New Year's Day.

After a world's record time had been returned for the furlong dash at the B. Y. M. C. A. last Friday night, it was found to be forty-nine yards short.

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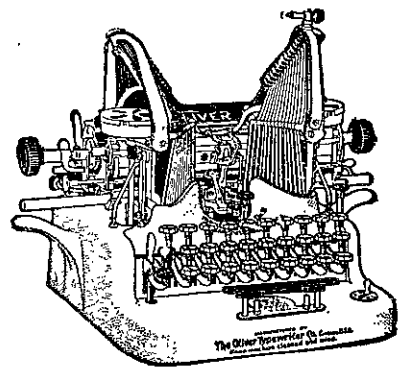
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BOSTON OPERA

The programs for Friday and Saturday of the current week at the Boston Opera House have been rearranged in order to include the return appearances of Anna Pavlova and her company that were demanded by their success last October. The bill for Friday night, Dec. 19, is "La Traviata," with Mme. Tetravzini and the same cast that was announced for Saturday afternoon. The Saturday matinee will begin with "I Pagliacci," with Alice Nielsen, Edoardo Ferrari-Fontana and Mario Ancona in the cast. The second part of the program will consist of a ballet and a number of divertissements by Pavlova and her associates. In the evening, "Cavalleria Rusticana" will be given, with Elizabeth Amsden and the same cast previously announced; followed by the Russian ballet.

The fifth week of the opera season will coincide with the Christmas holidays; and it is to be celebrated by a series of performances that will take their fitting place in the festivities of the week.

On Monday evening, "La Tosca" will be repeated with Louise Edvina in the title role. Mme. Edvina's interpretation will be comparatively new, as she has been heard only once in the part here. The Scarpia will be the familiar and admirable impersonation of Vanni Marcoux; Leon Lafitte will be a new figure in the part of Cavaradossi. Mr. Moranzoni will conduct.

Wednesday evening will be the occasion of the appearance of Mme. Tetravzini in the brilliant and popular role of Lucia. The Edgardo at this performance of "Lucia di Lammermoor" will be Vincenzo Tanlango, who has already had gratifying success in the part at a Saturday night production. Elsewhere in the cast will be MM. Fornari, Giaccone, and Mardones. Mr. Moranzoni will conduct.

"Samson et Dalila" will be repeated on Friday night, and is certain to be a notable event, as the same cast will be heard which sang it at its initial presentation of the season. That occasion was a veritable triumph for Mme. D'Alvarez, and indeed, no more fitting Dalila could be imagined, either vocally or histrionically. The whole cast is a brilliant one, including Mr. Ferrari-Fontana as Samson, Mr. Danges as the High Priest, and Mr. Ludikar as the Old Hebrew. Mr. Andre Caplet will conduct.

At the Saturday matinee, "Haensel und Gretel" will be presented for the first time this year. This opera is particularly appropriate for the holiday season, when even children of middle age are kindly disposed to fairies and witches and their fantastic doings. The Humperdinck opera is moreover a work of rare beauty musically, and has a large following on this account. The Haensel will of course be Jeska Swartz-Morse; the Gretel will be Mabel Riegelman, from the Chicago-Philadelphia Company, who is famous in the part. After the opera, the first act of "Coppelia" will be given by the Opera House ballet.

The Saturday evening performance will be another in the series of remarkable bills that are being offered at popular prices. "Il Trovatore" will be presented with a cast that would more than do credit to a subscription performance. Margarita D'Alvarez will sing Azucena, a role in which she has been unusually successful abroad, and Leon Lafitte and Ramon Blanchart will sing the roles of Manrico and Luna, respectively.

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MINING SOCIETY HEARS MR. W. S. HUTCHINSON

Interesting Talk On "Faults And Unforeseen Difficulties In Mining Development."

The Mining Engineering Society was addressed at its meeting last evening by W. Spencer Hutchinson '92. Mr Hutchinson, who is a well-known consulting engineer, spoke on "Faults and Unforeseen Difficulties in Mining Development," with particular regard to the development of mining property in Arizona.

Arizona's mining center is located some fifty-five miles northwest of Phoenix, in the heart of the desert. The presence of a body of ore was first discovered in 1863, although evidences have been found of the early explorations by the Spanish. In spite of the dearth of water, from the date of its discovery until twenty years later, mining this ore produced \$16,000,000 annually. In referring to the difficulties resulting from the absence of a water supply, the speaker stated that it was necessary to haul the water one hundred and sixty miles.

In 1883, the supply of ore seeming to run out, the mine was abandoned and for twenty-five years stood idle. Then, in an attempt to re-establish

activities, new ore bodies were found and a supply of water secured from a five hundred foot well. A mining camp was started and mill-equipment installed. Among difficulties met were the breaking of two crankshafts and the loss of one of the wells from the breaking of a column pipe. Long waits of a month and more with expensive express bills for new parts, taught the necessity of keeping duplicates on hand. In May, 1911, another fault was found. The milling operations in the mine were stopped and the work was directed toward the exploring and determining of the position of the faulted ore.

The speaker next took up faults in general. Faults up to thirty feet displacement, he said, are easily worked out. A close inspection will usually enable it to be worked out satisfactorily. Faults of large displacement sometimes prove disastrous to mining enterprises. Do not make the mistake in studying faults of supposing a normal fault to be the most usual kind. A great many are thrust faults.

The analysis of the fault problem is essential in mining work. The data required to determine a fault are strike, dip, plus or minus direction, and distance of displacement. The determination of these must be gone at systematically.

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