

THE TECH

VOL. XXXI. NO. 23

BOSTON, MASS., MONDAY, OCTOBER 23, 1911

PRICE TWO CENTS

ADVISORY COUNCIL TREASURER'S REPORT

Donation to Fund For Buildings At Field—Other Gifts Acknowledged.

Major Briggs, the General Treasurer of the Advisory Council, has given out the following report of the finances of the Institute Athletics for the past year. Among the important items is the fact that some good friend of the Institute has given \$2,000 to start a fund for new locker buildings at the Field, or at the new Field when the Institute moves. Other minor gifts from various of the more wealthy Institute activities were noted and acknowledged by the Treasurer at the same time.

There is need for quite a little money from some sources during the coming year for the current expenses of the Athletic Association, and the more money that comes in the better will be the equipment and provision for the team this season.

Report of the General Treasurer For Season 1910-11.

Receipts.	
Cash on hand as per last report	\$1210.10
Received from Corporation, account Field	1599.94
Receipts, Field Day, 1910	318.85
Alumni Fund receipts	1007.50
Tech Show, 1910	690.00
M. I. T. A. A. (returned)	632.52
Rent lockers, Field	81.50
Interest bank deposits	18.02
	\$4490.44
Expenditures.	
Maintenance Tech Field	\$1337.24
M. I. T. A. A. and Athletic teams	2337.80
Field Day	313.19
Locker keys returned	28.00
Du Pont Cup	163.25
Athletic rules and regulations	82.50
Alumni Fund, mailing, etc.	87.82
Season tickets	4.50
Stationery, stenography, postage, etc.	67.45
	\$4321.75
Cash on hand	1177.69
Balance	\$5499.44
Assets.	
Cash	\$1177.69
Corporation (from 1911-12 allowance)	136.03
Owe Alumni Fund	849.99
	\$2163.71
Constituting balance Alumni Fund	\$2163.71
Items in Team Account.	
Cross-Country, Relay and Track (net expense)	\$2071.85
Basketball (net expense)	84.87
Hockey (net expense)	44.98
Tennis (net expense)	5.00
M. I. T. A. A. (net expense)	19.01
Respectfully submitted, FRANK H. BRIGGS, General Treasurer.	

"The college is governed by the men who take the trouble to think. Every man who thinks for himself, whether on the wrong side or on the right side, is exercising a power over the lives of scores of others. It is because the majority of men who think are thinking on the right side, that the influence of the college is a good one."—President Hadley.

TECHNOLOGY CLUB MEETS COLLEGE MEN

Professor Dewey Gives Speech of Welcome—Mr. Humphrey Tells of Adventures.

On last Friday evening, in accordance with a time-honored custom, the Walker Club gave, in conjunction with the Technology Club, a reception to the college men who have come to Tech. College men find our school and its customs quite unlike the schools and the traditions which they have left behind, and Tech seems to them at first sight to be a hard, cold place. But this is not true. Tech men have a keen sense of fellowship, although, to a stranger, it may not be so obvious as at a college.

The object of the reception was to make the college men feel at home at our "Stute." With this end in view, the first speaker was Professor Davis Dewey. He said that, even if he could he would do nothing to make the college men love their Alma Mater less, but rather what he wished was that they should love their Technology more. He called attention to the fact that at Tech the student and the professor meet on a more nearly equal basis than at the college. He said: "We don't think that we know so very much more than you do, and we are always ready to listen to your opinions and talk with you as man to man." In saying this he touched upon a subject of difference between Tech and the college. It seems to us that without this man to man intercourse a technological school could not exist whereas such intercourse would defeat the purpose of a "liberal arts" college.

The next speaker was Mr. Humphrey, President of the Technology Club, who gave an immensely interesting talk on Northern Africa. His lecture was illustrated with stereopticon slides which were made from pictures he himself had taken, and was spiced throughout with little anecdotes and personal adventures. He showed pictures of Tunis and of Tripoli, of the ruins of Carthage and of the cisterns which the Carthaginians had used for the storage of water and which are now inhabited by the slovenly Arabs. He showed pictures of Beni Mora, the great oasis at the northern edge of the Sahara, which were of particular interest because Beni Mora is the locus quo of Mr. Hitchens's novel, "The Garden of Allah." Some of the pictures showed streets and places which were specifically mentioned in the story, and were particularly of interest because a dramatized version of the story is now being played in New York. Mr. Humphrey describes the town as being a little less roscate than does Mr. Hitchens.

After the lecture the company adjourned to the dining room, where refreshments, and besides some excellent music, awaited them.

START NEW SYSTEM.

Features of Work on The Tech of Interest to All.

Beginning with the next issue of THE TECH there are to be a number of innovations in the methods of carrying on the work which it is hoped will appeal to the undergraduates and

Continued on page 2, column 2

THERMAL EFFECTS ON CONCRETE.

Pamphlet by Professor Norton Treats of Its Value in Fire-Proofing.

Professor Norton of the Physics Department has recently had published a pamphlet containing the results of his study of concrete under varying temperature conditions. He has been very interested in the properties of concrete relating to its value as a fire protection for steel structures, and these results come after three years of thorough investigation. The tests are not yet entirely completed, but this data is published of those finished to date.

The title of the treatise is "Some Thermal Properties of Concrete," and is a reprint from the proceedings of the National Association of Cement Users. In it he reports on the diminution of mechanical strength after heating, the specific heat and the coefficient of thermal conductivity of stone and cinder concrete.

He finds that the mechanical strength is considerably lessened after prolonged heating, at from 1000 to 1700 degrees F., but not alarmingly so, except in the case of concrete subjected to continuous heating for four hours or more, as it still would resist tests of twice its normal safe load. The specific heat varies with the mixture of the concrete and the temperature to which it was subjected.

The determination of the coefficient of thermal conductivity was by far the most laborious task. To make tests on blocks, plates and beams of varying sizes required special apparatus, the design of which required considerable ingenuity. Furthermore, to determine the interior temperature of the concrete with sufficient precision required the use of many thermal junctions, for which platinum-rhodium couples were used. Several hundred measurements were made, some of which required that the concrete be heated for several days. To test large columns the concrete was cast in cylindrical form, and as an axis there was a steel bar which could be strongly heated by the passage of a heavy electric current. In this manner sufficient heat could be applied to melt the bar and its steel axis.

Professor Norton found the specific heat to be slightly less than that of brick, its value lying around 150 B. T. U. per deg. F. per inch thickness per 24 hours, and that it varied with the area, the temperature, and time, and inversely as the thickness. At the same time the density of the concrete is so great that it raises the capacity of a cubic foot of concrete above that of brick, but the difference is small.

In his discussion of cinder concrete he finds it necessary to exercise care in the selection of coal, as there is a limit to the amount that can be safely added, since more than about 5 per cent. will burn. There is also a great difference in the thermal conductivity of concrete of varying proportions, and tamping the mixture affects the rate of heat flow, making it conduct faster.

The results obtained by Professor Norton should be particularly valuable to the construction engineer, as a selection of the right material is a great factor in determining the safety of buildings in a large fire, and the report points out in its tables what kinds of concrete are most suitable.

CHEMICALS' DINNER TOMORROW EVENING

Professors Talbot and Fay on List of Speakers—Open House to Eligibles.

The Chemical Society begins on Tuesday evening, at 6:30 o'clock, what promises to be the banner year since its formation, with a meeting and an informal dinner. It is to be entirely one of these "get-together affairs," already so famous among the prominent professional societies at the Institute.

Most cordial invitations are extended to all Sophomores and upper-classmen belonging to Courses V, VII, X and IV. With the hope that the members of these four courses will take advantage of this chance to become acquainted with the old men and the work of the society, the officials look forward to a large attendance. Mr. Colton will have prepared one of his best meals which suit even the most fastidious. The aims and purposes of the society will be made plain to the new men, and the business of starting the Chemicals on their banner year will be carried out. At this time applications for membership to the society will be received.

Some fine after-dinner speakers have been obtained, of whom Professor Talbot and Dr. Fay head the list. They send off for the year and the interesting talks of the other speakers will prove a fitting close to the first dinner of the Chemical Society.

The dinner starts promptly at 6:30 o'clock, and the price of tickets is very low. They may be obtained from Messrs. Bates Torrey, Hugo Hanson, Paul Lawrence and W. E. Caldwell.

BIG STABLE FIRE IN MILTON.

Last night's fire in Milton was one of the worst that section has had in years. The stables of the Neponset River Coal Co. were completely destroyed. The property loss will probably reach \$30,000, including the loss of delivery equipment and about seventy of the one hundred and three horses. Some of these were also used in city contract work.

The general alarm called out all of Milton's apparatus, and one alarm for Boston engines was rung. The first alarm rang in at 10:15, and was followed by the others in quick succession. The all-out was not given until shortly after midnight.

CALENDAR.

Monday, October 23, 1911.

3.00—Track Practice.
4.00—Class Relay—Field.
4.00—Tug-of-War—Gym.
4.00—1914 Football—Oval.
4.00—1915 Football—Field.
4.15—Glee Club—Union.
4.30—Swimming Team—Salvation Army Tank.

Tuesday, October 24, 1911.

3.00—Track Practice.
4.00—Class Relay—Field.
4.00—Tug-of-War—Gym.
4.00—1914 Football—Oval.
4.00—1915 Football—Field.
4.15—Mandolin Club Rehearsal at Union.
5.00—Technique Board Meeting.
6.30—Chemical Society Dinner—Union

THE TECH

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MONDAY, OCTOBER 23, 1911

The Freshman Class do not seem to be going about the preparations for the annual Field Day with the usual enthusiasm. True it is that but few over fifty men will be able to take active participation in the scheduled events, and on the work done by those men will depend the final results a week from Friday.

The remainder of the class may say to themselves that they will go out to the Field and see the games and cheer if the occasion arises. This is of course expected of every one, and exercises are suspended for that particular purpose.

In the evening it has been the custom for a number of years to celebrate Tech Night at one of the downtown theatres and give the superfluous enthusiasm a chance to get loose. This year the Sophomore "Theatre Committee" has arranged to have Tech Night at the Colonial Theatre, where "The Two Romeos" will be presented. The entire first balcony is reserved for the Freshman class, and all the cheers of that class come from that elevation. From the present reports of the ticket sale among the members of 1915 the cheers will not be louder than a huge whisper. The entire balcony should be filled with Freshmen so that all the Sophomore cheers can be returned with equal vim and enthusiasm.

The seats are still on sale by members of the committee and we hope that the men will get busy right away and invest in a pasteboard.

Arthur Duffey says about the Intercollegiate Cross Country: "Any follower of the sport will admit that Cornell has a cinch for the Intercollegiate honors next month, but how about the fight for second place? Dartmouth, Yale and Harvard all look strong for the position, and Tommy Keane at Syracuse and Frank McNally of Tech are not to be overlooked."

His opinion of the Cross-Country team is very evident from his note, and every good Tech man must know that it is a mistaken one. The only question is, whether the men take

enough interest in the sport and the 'Stute to fight hard from now until the twenty-fifth of November. Every man who has ever run cross-country should report for practice every day, and more than that, they should report at the training table in the Union.

There isn't a man in the Institute who wouldn't and who doesn't resent the implied slight in the sporting column of the Post, and there is only one way for us to hit back, and that is by taking that second place. Let that be the aim of every man in the Institute, "To take that second place with as great a margin as is possible."

The editor received the following communication from one of the department heads, and has seen fit to publish the same as a striking example of the way some men around the Institute look after their work. Surely no one could deny the fact that supplying THE TECH with any desired information is a part of the work of the various secretaries. It would seem that these men would help us as much as they could, but we doubt not that they are among the most vociferous of the fault finders. To the Editor of THE TECH:

Some time ago I sent to the secretaries of certain of the Institute societies requests for lists of officers of their respective organizations, for use as reference for THE TECH. No one of those to whom I have sent these has replied.

It must be obvious that without some co-operation on the part of these men the paper cannot thoroughly cover the field, because a few men can not always be informed of all the doings of the societies. I think it shows extreme laxity on the part of these men who were elected to care for the welfare of their organizations that they have not responded to so urgent a call, and it is my belief that they should be up and doing, or else give way to someone who will properly perform their duties.

Through the columns of THE TECH I would urge immediate replies to the letters, and at the same time I desire to call the attention of the societies to the fact that the paper desires their assistance in properly doing its work. Men should realize more that THE TECH is co-operative, and needs as much their aid as they invoke its aid. Very truly yours,

A. J. Pastene,
Societies' Editor.

START NEW SYSTEM

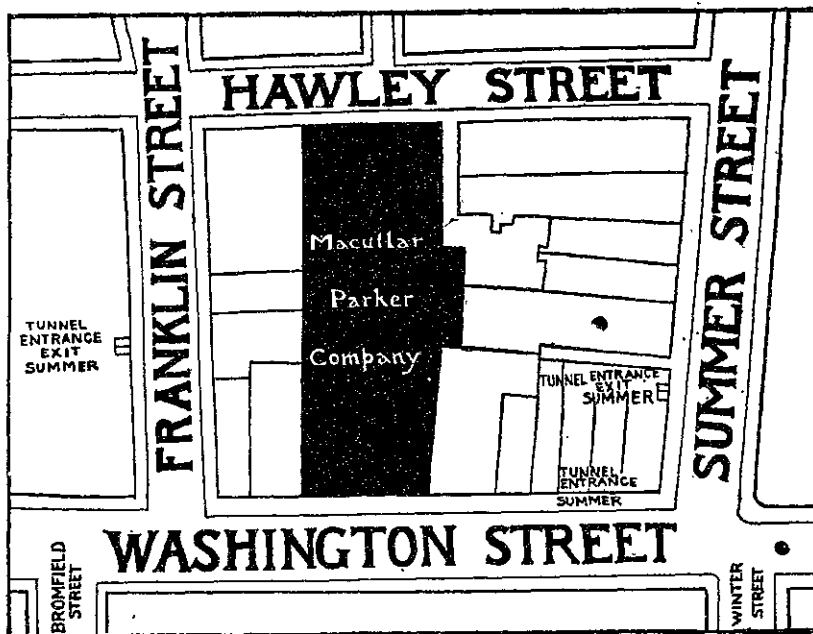
Continued from page 1

get them to co-operate with the men on the paper to make it more of a success and help it more thoroughly cover the ground.

In the Editorial Column every day the men who have charge of the paper that night will be listed and they will be on the lookout for stories that anyone may have to hand in. There is to be some one in the office until 10 o'clock at night so that the fellows may call the office and get their notices, etc., into the next day's paper.

Everything that is possible should be brought to the office before 6 o'clock, as that is the time the first copy goes to the printer; the second copy goes about 9 o'clock, and the third just as soon as it is ready. It is necessary for the Editor in charge to know about what is coming along in the line of extra news, so any time there is anything that wants to go in a special paper it will help the men on the paper a very great deal if they can be notified instead of coming around the next day and kicking because it was not run. Copy brought in by men not on the paper is always special, and should be arranged for accordingly, as there is enough brought in by the News Staff to fill the paper, and the makeup of any issue has to follow a definite plan.

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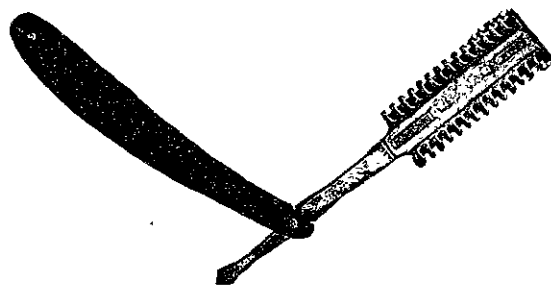
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HARVARD DEFEATS THE PURPLE TEAM

Slippery Field and Driving Rain Prove Too Much For Amherst.

After holding the Crimson scoreless through a long twenty minutes of driving rain, water-soaked and treacherous field and a slippery ball, Amherst was defeated by two touchdowns at the Stadium Saturday. The score was no indication of the merits of the game, which was very erratic and worth but little as a means of getting a line on either of the teams.

An immense crowd of people sat and stood in raincoats and under umbrellas that gave the Stadium the appearance of a gigantic bed of black mushrooms, while the Crimson and the Purple fought till they were all of the same color—mud.

Harvard showed a slight increase over the work against Williams, but it was very slight. In the line of penalties there was no change for the better. The men in the lines have a constant tendency to get off side and the back field try to get away before the ball. The team that played the first half was decidedly off in its tackling, though, of course, the poor footing that the men had was some excuse for this, and their team work was very ragged. There was none of the fight that resulted in the victory over Williams, and but for their fine work on the defense there would have been a score for the Purple during this period. The offense was so weak that when in the middle of the second quarter they tried to push the ball over from the eight-yard line, Wendell was unable to make even the necessary two yards to give them first down.

Amherst was also weak on the offense, being unable to show any of her tricks on account of the slow field. She only made first down three times, and those were on penalties. As "mud horses," the men on the Amherst team excelled easily in spite of their difference in weight, and they played a game that was noticeable because it was clean-cut and snappy.

The Harvard cheering section, aroused by the songs and constant cheering from the Amherst side of the Stadium, outdid itself, and at the end of the last quarter gave forth a "long Harvard," in which nearly half of the men in the section had a hand, or rather a voice.

The loss of Wigglesworth at quarter was greatly felt, for although the work of Freedley and Calendar was good, they have a lot to learn before they can be sent into a Yale game. Captain Fisher was missed in the line, and the whole team seemed to run over when he coached from the side line than when he was fighting beside them in the game. Potter also took a rest and there were several others of the University team who did not start the game, but had to be sent in so that there might be a victory of some sort for the Crimson.

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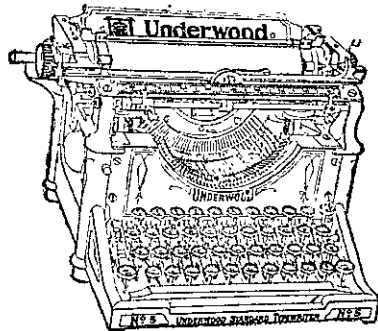
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FACULTY NOTICE.

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G. F. LOUGHLIN.

FRESHMEN.

At the meeting of the class on Tuesday noon, October 17, the class dues were fixed at \$1.50 per year. It is absolutely necessary for every Freshman to pay his dues within the next two weeks. No one will be allowed to vote in the class election after Field Day unless his dues are paid. Have your dues with you all the time so that when the collector sees you there will be no delay. (22-1t)

1914.

Nomination for Sophomore Class Officers should be left at the Cage, addressed to the 1914 Nominating Committee. Each nomination must be signed by at least ten Sophomores. Nominations will close at noon on the 27th. (22-3t)

NOTICE, 1914-15.

All candidates for assistant publicity management in Tech Show, 1912, be sure to report at the Show Office, Room 13, the Union, between 4 and 6 P. M., either on Monday or Tuesday, October 23 or 24.

Precision of Measurements.
Sept. 30, 1911

The regular course of lectures will be repeated for College Students who have the subject to make up, on Wednesday and Friday afternoons at 4 o'clock in Room 23, Walker.

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