

THE TECH

VOL. XXXII. NO 123

BOSTON, MASS., SATURDAY, MARCH 29, 1913

PRICE TWO CENTS

SHOW TICKET APPLICATIONS, DUE 5.00 P. M.

PAPER MANUFACTURE PROCESS DESCRIBED

Mr. Carruth Tells Chemists Why Paper Mills Need Technology Men.

Last night about seventy members of the Chemical Society gathered in the Union to hear Mr. H. P. Carruth speak on "The Problems of the Paper Mill Chemist." Mr. Carruth has risen to be head of the American Paper Company's mill at Holyoke since leaving the Institute, and he has now six Tech men working under him.

Before beginning his description of the paper making he suggested that the men keep in mind the fact that employers often appreciate the faults in their processes, but know from experience that these faults cannot be corrected except at a financial loss.

Mr. Carruth then outlined the process of making a high grade paper. He reviewed the steps taken to prepare rags for the mill, and mentioned many processes which needed the work of the technically trained man to make them efficient and to improve them. These problems were very practical, and demanded for their attack a man trained in chemistry, in engineering and in paper manufacture. At present the theory of the sizing operation, of dyeing, of ageing are as little-known as they were fifty years ago.

Mr. Carruth said that the company for which he was working has introduced an apprentice system into their mills, by which a man may be given practical work in the mill for two years before being made an assistant superintendent.

The members asked Mr. Carruth several questions after his talk, and when they gave him a rising vote of thanks. He was not permitted to leave for an hour, however, for many of the members gathered around him for a long discussion of some of the remarks he had made.

T. C. A. ELECTIONS.

Officers Chosen For Next Year at Meeting Yesterday.

At a business meeting of the Technology Christian Association, held yesterday in the Union, the results of the election of officers was announced. The following men will occupy the respective positions for the coming year: Miles E. Langley, President; Charles G. Norton, Vice-President, and Ralph H. Howes, Treasurer.

COMMUNICATION.

To the Editor-in-Chief of THE TECH:

Dear Sir: In replying to the Committee on Constitution and By-Laws I desire to be pardoned if I have committed a sacrilege in writing my first communication. The committee asks for comments upon the proposed Constitution, and did not specify any time limit for making them; moreover, they did not state that they should be commendatory; if they were afraid of adverse criticism they should have stated the fact.

In regard to the Technique matter mentioned by Mr. Murdock, the

(Continued on Page 2.)

M. E. SOCIETY HEARS TALK ON OIL BURNING

Mr. Peabody Gives Results of Investigations and Researches.

Yesterday afternoon Mr. E. H. Peabody, of Babcock-Wilcox Co., gave an illustrated talk on "Oil Burning" before the Mechanical Engineering Society in 11, Engineering B. The talk contained the results of the investigations which he has made during the past few years, giving a great deal of valuable information which cannot be found in text books.

Mr. Peabody has been in charge of the oil wells of the Babcock-Wilcox Co. in Texas since oil was discovered there. Most of his time since then has been occupied by experimenting with oil burners. There are two methods of burning oil, the gasifying method and the atomizing method. Owing to the fact that the gasifying method and the atomizing method absorbs some of the heat from the burner, it is not generally used. Mr. Peabody's experiments have been with the atomizing type. He has found that the character of the burner depends almost entirely on the shape of the slot where the mixing of the oil and the steam takes place. The simpler the burner the better.

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COMMUNICATION.

Editor-in-Chief of THE TECH:

Dear Sir: There was once a time when a great deluge ascended on the earth and just about cleaned things right out. A man named Noah and his family escaped in the good ship "Ark," but even then they'd never have gotten out if it hadn't been for Mr. Noah assuming command. From Noah's time till the present has been quite some space, but thanks to literature written on papyrus and pyramids, we have found that a commanding body is necessary for the welfare of every community.

Your anarchistic contributor of Thursday's issue has decided with one blow of his sweeping pen to completely obliterate the history of past ages; congratulations are due his enterprise. If due foresight and investigation on the aforesaid gentleman's part had been brought into play he would have found that almost every important school of account has an Undergraduate Committee which stood ready to offer advice to activities. There are no activities so perfectly run that good advice is a superfluity, and when twenty-eight men put their heads together for the benefit of a school some good is bound to result.

The point of the Advisory Council, and its advice being reliable, is certainly well taken, but within the last few weeks we have had a case where the Advisory Council of a certain activity had such supreme faith in the poor unweildy, half-informed committee that it referred one of its own problems to it for settlement.

The last point about the Union Committee with four men being represented on the Institute Committee is almost so absurd as to merit complete disregard. That small committee

(Continued on Page 3, Col. 1.)

GOOD OPPORTUNITY FOR SOPHOMORES

All Members of Class of 1915 Eligible for Competition Held Today.

Members of the Class of 1915 will realize the opportunity that is open to them in connection with work on the business of THE TECH. The office of Treasurer is to be filled and there is no man on the paper eligible for the position. The office carries with it the task of handling over \$5,000 each year, and is considered of such importance that its holder carries nine points.

Under normal conditions it takes two years of business experience to attain this position, but owing to peculiar circumstances the office can be secured by competition today at 2 P. M. in the upper office of THE TECH. The man that is wanted is one who has had a little business experience and who has the capacity to make good with a big job. There is absolutely no necessity of a knowledge of the newspaper business, but the Treasurer is in a position to become intimately acquainted with journalism.

To come down to hard facts, how many men could go out into the world today from their Sophomore year in college and take complete charge of the finances of a \$5,000 business, and besides this to be in a position where he is able to learn the particulars of a business wholly unknown to him? The position of Treasurer of THE

(Continued to Page 3, Col. 2.)

FRESHMAN BASEBALL.

Large Number of Candidates Out Yesterday.

The Freshman baseball squad was out for practice yesterday with a total of eighteen men trying for the different positions. There is a wealth of good material out for the infield and the prospects of the Freshmen having a baseball team with a snappy infield that knows every department of the game down to its finest points, and has the ability to put this knowledge to its best use, are extremely bright.

Capt. Murphy is playing a star game at short, and there are several men who show evidence of being able to back him up ably on the second and third sacks. Two or three good men are out for the position on first base, but there is little competition here, as one of the candidates seems to be superior to the others. Smart and Burkhardt were doing some preliminary twirling yesterday. Both are good men with puzzling curves and plenty of speed. There are plenty of outfield candidates, several of whom are good men and a good outfield should be picked out of this group when they develop a little more speed. The men out yesterday were Lipman, Morse, Petit, Murphy, Smart, Burkhardt, Townsend, Sweet, Stewart, Woodbridge, DeMerritt, Connelly, Davies, Kenny, Sully, Lovejoy, Drake and Storm.

The Freshman schedule is not yet completed, but a large number of good games are pending, which, if procured, will make a fine schedule.

MANY APPLICATIONS FOR TECH SHOW SEATS

Requests for Tickets Should Be in by 5 O'clock This Afternoon.

The Tech Show management announces that all applications for seats must be in by 5 o'clock this afternoon. An unusual number of replies have already been received in answer to the circulars sent out and more applications are expected today. Just at this time the demand for seats is very great, and the attention of all those who wish desirable seats is called to the fact that the seats are distributed according to the order of the receipt of the applications and according to the class of the applicant.

In addition to the activity on the part of the business staff this afternoon, the cast and chorus will also be busy. A rehearsal of the entire Show will be held at 2 o'clock in the Union Dining Room. Mr. Sanger will supervise the work, while Mr. McConathy will have charge of the music and Mrs. Adams the dancing. Mr. Sanger hopes to be able to get through the entire book, including all the singing and dancing. At the same time, 2 P. M. today, Kenneth Wright will meet the light men who were chosen the first part of the week by ex-Stage Manager Thayer.

Arrangements are practically complete for all of the productions of Tech Show, 1913. The first performance is less than two weeks off, and all the "actors" are getting into condition for the "first night."

CREW PROGRESSING.

Practice This Afternoon at Two—All Candidates Report.

Despite the bad weather that has prevailed during the last few days Crew practice has been going along in fine shape. The men are still using the B. A. A. four-oar shells and will have to rely on them for next week's work as the M. I. T. Boat Club's shell is still undergoing repairs. Next week practice will be somewhat broken up, due to the fact that the School Boys' Crew will be using the shells.

Yesterday Commodore E. C. Gere had two squads out and the men seem to be getting along fairly well. The first trip was about two miles long, the second about one. Owing to the fact that the Crew's finances will not warrant the procuring of a coach, Gere is coaching the men.

The following reported: E. C. Gere, Jalver, T. G. Jewett, Jr., Wellington, Duff, Forsythe and Macy.

Practice today will be at 2 o'clock and everyone out for the Crew should report.

WEATHER.

Forecast for Boston and vicinity: Saturday fair, rising temperature; moderate westerly winds, becoming variable.

CALENDAR.

Saturday, March 29, 1913.

2.00—Rehearsal of Tech Show in Union Dining Room.

2.00—Crew Practice at B. A. A. Boat Club.

EXAM. FOR TREASURER OF THE TECH TODAY AT 2.00 P. M.

THE TECH

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SATURDAY, MARCH, 29, 1913

ALL-TECHNOLOGY SMOKER.

The ALL-TECHNOLOGY SMOKER to be held April 4, in the Union, is an event that should mean much to every Institute man who can attend. As men of different courses have little opportunity to come together in a purely social way, the average Tech man does not receive the advantages of a wide acquaintanceship which is such an important factor in the undergraduate life at many colleges. The object of this Smoker is to help create a more sociable atmosphere at Technology and to enable each man to increase his circle of friends.

Talks by prominent members of the student body and Faculty, the announcement of the vote on the new constitution, Tech songs and refreshments will assure all who attend a most enjoyable evening. This evening should help to increase our store of the real Technology Spirit that is to fit us for our life in the NEW TECHNOLOGY.

The splendid showing which was made yesterday with the sale of tags is indeed gratifying. It is, however, no more than we all should expect and have really anticipated from the moment the project was started. Every Technology man believes in Athletics at the Institute at heart, and this expression has proven beyond any doubt this fact. There may have been occasions when it was thought there was little support from the general student body, but any one who was near Technology yesterday knows that such considerations have been entirely disproven. Tags were seen in every direction, and the men who were not flying the colors were few and far between.

The call, issued not only to come to the support of Athletics as an Institute activity, but also to their financial support, has been most admirably answered, and while several days ago many thought the situation looked doubtful whether the men would show such enthusiasm, the number of tags ordered was far from sufficient to meet the demands. The buying was especially heavy among the members of the upper classes, for they realized that the critical point was at hand, and that aid to the whole student body was necessary if Technology was to continue to be represented upon the field of sport.

TAG DAY PROVES TO BE GREAT SUCCESS

Student Body Shows That it is Deeply Interested in Athletics.

Tag Day is over and Eddie Germain announces that the result has exceeded all expectations. The Undergraduates showed that they were behind athletics, both financially and spiritually. By noon yesterday but few tags were left, and it was a rare sight to find a Tech man that did not have at least one of the little emblems hanging from his button-hole.

The selling was started Thursday evening at the fraternity houses, and at the 1914 Class Smoker. The sale was heavy at all of the fraternity houses, and when the Smoker began many were already tagged, most of them with more than one tag. The sight of these men wearing the tags spurred on the remaining men at the Smoker, and the supply of tags allotted to the men there was soon exhausted. All these men started out the next morning with tags in their lapels, and created such an enthusiasm that the committee was besieged with men desiring to sell the tags. The demand was beyond the supply, and many of the salesmen sold and then resold them. The support of the Faculty was splendid, and several, among them President MacLaurin, showed their approval by paying several dollars for one of these now famous decorations.

The committee has been unable to make a complete account of the proceeds, but it seems almost certain that more than \$300 will be added to the coffers of the Athletic Association. A complete statement of the financial gain will be published in Monday's issue of THE TECH.

The results of Tag Day have not only aided the teams temporarily, but have also created an enthusiastic interest in athletics, which will be of great aid in the future when the new site is occupied. The Corporation has shown the spirit which had been lying dormant for so many years. It was believed that this spirit was entirely absent, but the enthusiasm of yesterday has proved that in the innermost regions of their hearts the men still desire, and will support, athletic teams at the Institute.

AUTO TRUCK.

The Institute auto truck blockaded the door to the Electrical Engineering Lab. at 10 yesterday, and numerous were the attempts made to clamber over the obstruction. A little later about twenty huskies started to shove and created such great momentum that the truck almost went through the wall into the Union kitchen.

1914-1915 BASEBALL.

The first Inter-Class baseball game of the season will be held at the Tech field Saturday afternoon between the Juniors and Sophomores. The game is called for 3 o'clock sharp.

Manager Thomas of the Sophomores wishes all men to report at the field before the game at 2 o'clock.

The Philadelphia Athletics tried to sign up THE TECH'S first baseman.

The lower classes however, did well, especially after seeing the way in which their elders purchased tags.

Tag Day has fulfilled its purpose to the letter and has done just the right thing at the right time. The Corporation now knows that Technology men do want Athletics and are willing to support them. We sincerely hope that immediate action on their part will result from the success of yesterday.

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COMMUNICATION.

(Continued from Page 1, Col. 1.)

Technique Board is elected by the class, and under present conditions it is responsible to the class. Mr. Murdock mentioned a possible case of an undergraduate organization's attempting to exceed its authority; but does not consider it probable. Has it ever occurred in the past? If not, what justification is there for the new Constitution? I am perfectly well aware that some activities have written agreements with the Institute Committee at present, but I do not think that is sufficient reason for attempting to force all activities to put themselves within its jurisdiction.

Mr. Murdock is to be complimented upon his keenness. It was the Union Committee, to which I referred, and if he will look at the head of the column he will find the two words, "Active Membership." So far as I have been able to find out today this committee has three undergraduates ACTIVE MEMBERS.

Throughout the entire Constitution the only restrictions laid upon the committee are the granting of the initiative and Referendum to the student body. The committee is "to exercise such supervision over the several student activities as will insure that the same are conducted in the best interest of the student body as a whole and to the credit of the Massachusetts Institute of Technology. But who is to judge? The Institute Committee of course. All power is invested in it, both judiciary and legislative; it is to be the Congress and Supreme Court of undergraduate life.

I believe that the men in every organization attempt to conduct in the best interests of the Institute, and I cannot see any reason why they should not be allowed to pursue their own courses independently and not be hampered by a governing board.

In closing, I wish to say that I am a firm believer in the Institute Committee; that I consider it to be an invaluable asset to the school. I know that it has accomplished much good in the past and feel that it will be able to do even more in the future, but I do not think that it should be made all powerful.

David M. Hughes.

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**MEMBERS OF FACULTY
CONFER WITH ALUMNI**

Prof. J. K. Taylor and H. W. Tyler Discuss Walker Memorial in New York.

Professors J. K. Taylor and H. W. Tyler of the Institute went on to New York on Thursday to consult with the alumni about the Walker Memorial. Before going Prof. Tyler made a canvass among the students to find out approximately the routes the students would take in coming to the new buildings from the suburbs. This canvass was made in the second and first year mathematics sections. From the figures obtained, Professor Tyler believes that the majority of the men will come by the way of the Harvard bridge. The following are the figures obtained: Harvard Bridge, 109; West Boston Bridge, 54.

At a dinner which forty of the alumni attended talks were given by Mr. W. W. Bosworth, '89, the architect of the new buildings, Mr. Eaton and Professors Taylor and Tyler. The talks given were all informal and nothing definite has been decided on as yet.

Mr. Eaton spoke upon the question of the student housing. In the canvass made 92 students signified their intention of living on the campus. These figures on the housing are not considered to be of much significance, the students probably have but a faint idea of what they intend to do. Professor Taylor and Mr. Eaton also discussed the building problem.

Professor Tyler gave an outline of the recommendations of the Walker Memorial Committee. He said that the committee is trying to locate the Walker Memorial in such a position that the students will have to pass it their way to and coming back from their class rooms.

MECHANICAL MEETING.

Continued from Page 1, Col. 2.) Nothing is gained by making the mechanism complicated, except that the designer may be able to deceive someone into believing that it is more efficient than any other kind. The mixture of the spray, however, is not as important as the shape of the spray and the shape of the furnace. It has required a great deal of work to construct a sprayer that will stand the heat of the flame uniformly. It has also been just as difficult to shape the boiler that it will stand as much of the heat as possible.

The talk was illustrated with diagrams and photographs showing all different devices Mr. Peabody used in his investigations. There are many charts giving the results of the many tests which have been conducted, including one which was a record breaker in oil burning efficiency.

Mr. Peabody has also conducted experiments in conjunction with the government, and has helped them in the construction of some of their new boilers. He concluded the talk by showing photographs of five of their latest oil burning dreadnaughts on their trial trips. These were taken by the government photographer and have not yet been published. The president of the society announced that the nominations for officers would be due within a few days.

COMMUNICATION.

Continued from Page 1, Col. 2.) It is the representation of about 100 undergraduates who frequently are one of our best institutions, especially the Union, and the aforesaid committee contains four of the best workers for activities, and especially the best acquainted men in the school.

Trusting that you will be able to find space in your valuable columns for these slight babblings from an old owing stream, Yours truly,
L. H. L.

**INTER-COURSE CROSS
COUNTRY RACE TODAY**

Run Over the Tech Course—Prizes Will Be Awarded to Individuals.

The Inter-Course Cross-Country run that is to be held this afternoon over the Tech Course is arousing a large amount of interest among all the track men as well as among the members of the various Courses. No arrangement will be made as to the grouping of the several Courses until on the way out to Highland, the starting point of the race. It is not known just how many are going to show up so it was thought wiser to leave the grouping until then. Probably three or four teams will be formed from those that go, and an endeavor will be made to match them as evenly as possible. The first six men to finish for each team are to count in the final rating. Individual prizes in the form of ribbons will be awarded to the first six men to finish.

The course has been somewhat changed from last year, and it will be well for all those who expect to go in later races over the course to go today and get acquainted with it. This should be of especial interest to the Freshmen and Sophomores who intend to run in the race next Saturday, as an intimate acquaintance with the course is of essential value.

The train leaves the Back Bay station for Highland at 2.34. The fare for the round trip is 25 cents.

BOARD MEETING.

1916 Class Directors Draw Up Amendment to Constitution.

In accordance with the motion passed at the last meeting of the Freshman class the Board of Directors, at a meeting held yesterday, drew up an amendment to Article 3 of the class constitution. The article as amended reads: The officers of this class shall consist of a President, Vice-President, Secretary, Treasurer, two Directors, two representatives to the Institute Committee and two representatives to the Athletic Association all of whom shall constitute a Board of Directors for the class. As stated in the Constitution, this amendment takes effect upon its passage.

A meeting will be held on Tuesday, April 8, to consider the amendment and any other business which may come before the meeting. Contrary to the usual custom the meeting will be held at 1.30.

THE TECH COMPETITION.

(Continued from Page 1, Col. 3.)

THE TECH offers that and more. Here is a position of great responsibility that can be filled with comparatively little work and still afford the man the chance of successfully pursuing his studies.

The man selected will be a member of the Managing Board, and have powers co-ordinate with those of the Editor-in-Chief, Managing Editor and Circulation and Advertising Managers, thus making him an important figure in student activities.

The competition to be held today at 2 P. M. in the Upper Office of THE TECH will consist of examinations in the simple elements of bookkeeping and in business principles, but good, sound, common sense is as important as either. The position is a Junior office, election taking place in April of the Sophomore year, thus making any man who expects to be a Junior next year eligible for the position. The competition is open for all men in the Class of 1915.

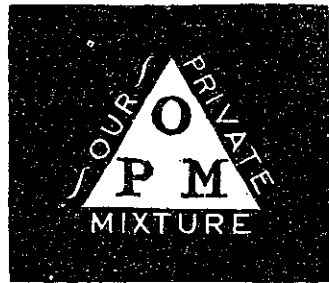
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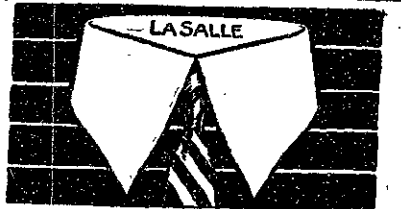
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