

THE TECH

VOL. XXXII. NO. 38

BOSTON, MASS., WEDNESDAY, NOVEMBER 20, 1912

PRICE TWO CENTS

MANY SONGS NEEDED SOON FOR TECH SHOW

Tickets to Be Given as Reward
for Acceptable Lyrics—Due
Saturday.

This year the Tech Show deviates from its previous custom by having an open competition for the Show's lyrics. The successful writers are to be given free seats for the Show. In former years the writers of the Show have written their own lyrics but this year the Show offers an opportunity for any student to show his talent.

Any numbers of lyrics may be submitted by one person, but the Show Board reserves the right to make alterations, or request the writer to alter the song.

This competition closes Saturday, November 23, at 3 P. M. On account of this scarcity of time everyone desiring to enter the competition should see someone on the Show Board for further information today.

The titles of the eighteen songs are given below. Each song is to consist of two verses and a chorus.

1. "It's Hell to Be a Freshman."
2. "Two of a Kind. That's all."
3. "A Really First Class Hotel."
4. "I Never Travel Without Me Tub."
5. "Don't Be Backward."
6. "Who Said Lunch?"
7. "Brothers All."
8. "Touring."
9. "Drink With Me."
10. "There's Always Room for More."
11. "We've Been Looking for Two Like You."
12. "Just a Little Word From Someone."
13. "I Have Been Duped" (old man).
"I Meant No Harm" (hero).
14. "We Are Servants of the Law."
15. "In the Dark of the Moon."
16. "We're Wise."
17. "If Love Is Mine."
18. "Here's to the College."

Only nine men reported Tuesday night and the Show Management would like to see more men come out.

JUNIOR CLASS PIPES.

Saturday Last Day Orders Can
Be Received by Committee.

The 1914 Pipe Committee announce that Saturday is the last day that they can take orders for class pipes. The committee believe that they have obtained the best pipe in the city as they have spent much time investigating the pipes of all the prominent pipe merchants in the city and only decided after a most careful consideration. There are six styles that will suit any fancy; all are briar pipes, short and long poker, small and large army, bent army, and jimmy, or half bent. The official Technology "T" and class numerals will be inlaid in the pipes. The prices are \$2.70 and \$2.80. The men desiring pipes are required to pay \$1.50 as a deposit and to pay the rest when they receive the pipe. Several orders have been taken already, and men wishing pipes should see one of the members of the class pipe committee: A. B. DeWitt, H. G. Storke, or A. H. Waitt.

MEETING OF MINING ENGINEERS TONIGHT

Taggart and Howard to Speak
On Opportunities in South
America.

The Mining Engineering Society will hold a meeting in the Union tonight at 8 o'clock. The meeting is to be an open one, and all men who are interested are invited to come and hear a talk on "Engineering Possibilities in Central and South America."

The speakers are to be Mr. Taggart, an instructor in civil engineering, and Mr. Howard. Both are well qualified to speak on South America, because they have traveled extensively in that country. The talk will certainly be a most interesting one, not only for the members of the course, for whom it is primarily intended, but also to students outside of the course. As both of these men are up-to-date engineers, they will speak in a practical, straight from the shoulder manner.

RIFLE CLUB MEET.

Two Teams at Intercollegiate
Meet to Be Held in Boston.

Two teams of twelve men each have been entered in the Intercollegiate Indoor Rifle Meet by the Institute Rifle Club. This meet is to be held at the First Corps Cadets' Armory on Columbus avenue, at some date which will be announced later.

The men who are to take part in this meet have not yet been picked and there is still a chance for new men to make the teams. All new men may join the club by seeing Captain Stewart on Monday, Wednesday and Friday evenings, from 4 to 6 o'clock. The club furnishes guns and ammunition, thus putting the members to no expense.

NAVAL ARCHITECTS.

The Naval Architectural Society held its first meeting yesterday afternoon. All the members of the Junior Class who are in Course XIII were elected members of the society. The society is planning to hold a dinner in the near future, the date and place to be announced later in THE TECH.

The Naval Architectural Society was organized in March, 1900, by the members of the Class of 1901, and since that time has been the professional and social society of Course XIII. Its officers for this year are: President, J. P. Constable, '13, and Herbert Cady, '13.

PROGRESSIVE CLUB.

At 1.30 P. M. there will be a meeting of the Executive Committee of the Progressive Club in the Union. The president desires all the members of the committee to be present as there are many financial matters to be attended to. Any further activity that might be advisable for the club to take will be considered. Notice has been sent to all the members of the committee.

I. C. A. A. A. RUN NEXT SATURDAY

Harvard, Cornell, Dartmouth and
Brown Look to Have Best
Chances to Win.

Indications point to one of the most successful I. C. A. A. A. meets ever held, next Saturday, when the big cross-country race comes off at Ithaca. Harvard, Cornell and Dartmouth now rule the strong favorites, Cornell because of their past performances, Harvard because of their win from Cornell by four points earlier in the season, and Dartmouth because of their winning the N. E. I. C. A. A. race last Saturday.

John Paul Jones, twice winner of the big cross-country race, is again picked as the winner. In the race with Harvard he came in a good first ahead of Copeland, the best Crimson man, who is chosen as one of the contenders for first honors. Another man who has a claim on first place is Taber, of Brown, the winner of the New England run. Ball, of Dartmouth, will also be up close to the first men. Pennsylvania has a good team, but have not showed up to Cornell or Harvard. With Taber, Litchfield, Cook and Roberts, the Brown team looks good for one of the first places.

Tech will have the fastest team of its history, and although Benson will not be able to run, because of his being a Freshman, prospects look for at least as good a showing as last year. The distance will be six miles, while the run last week was only four and six-tenths miles long, and therefore close predictions cannot be made from this meet.

MUSICAL CLUBS.

First Concert Comes Week From
Friday at Wellesley Hills.

A week from Friday, November 9th, the Musical Clubs will have their first concert of the season at Wellesley Hills, under the auspices of the Wellesley Hills Tennis Club. The concert will be held in Mangus Hall, and will be followed by a dance. The clubs have always received an enthusiastic welcome there, and everyone who goes is sure of having a good time.

This year the clubs are splendidly developed, every one having been enlarged and improved since the beginning of the year. The Banjo Club is especially strong and is expected to furnish some corking good numbers. The members of the Quartet have sang together for three years, and the Quartet is considered to be one of the best college quartets there are. The concert is largely a tryout for the winter concert of December 6th.

The clubs will leave Trinity Place Station at 6.24 P. M. A special stop will be made at Wellesley Hills by the train which passes the station at 11.50, so that the men will have no trouble in reaching the city.

Ten men have been dropped from the Harvard Varsity because of their inability to keep up in their studies.

ELECTRICALS TO HAVE TWO GOOD SPEAKERS

Meeting in the Union Tonight at
7.15—Open to All Men Who
Are Interested.

Tonight the Electrical Engineering Society will hold an open meeting in the Union at 7.15 o'clock. They have secured two speakers, Mr. Henry A. Morss, vice-president of the Simplex Company, and Mr. Cook, of the Exide Storage Battery Company. Mr. Morss will describe to the men how his company performs many of the operations necessary to the production of electric appliances. Mr. Cook will talk on "Storage Batteries."

In connection with this talk that Mr. Morss is to give, the members of the society are to make trips to the factory and see the actual operations. About twenty-two men have signed up for a trip this afternoon at 3.10 P. M., while 29 expect to go Thursday afternoon at 2.10, and about 20 Friday afternoon at 2.10. These trips are for a limited number only, and there is room for only a comparatively few men more.

VARSITY HOCKEY.

All Candidates Are Expected to
Report in Rogers 26 Today.

All candidates for the hockey team are expected to report today at 1 o'clock, in Room 26, Rogers, where Captain Ranney will meet the men and outline the plans for the coming season. All men who expect to come out for the team should be present, as several matters of importance will be explained.

Freshmen who are going to substitute hockey for gym work are to report at the Gym with their regular sections the remainder of the week, and beginning next week they will report at the assigned hours for practice at the Arena. A regular attendance at all practice hours is required of these men taking this option. Attendance will be taken each day and the report filed with Frank Kanaly.

If enough men attend Captain Ranney thinks he will be able to turn out a first-class team, as well as a second team. He urges all men who are interested in hockey to be sure to attend the meeting today.

ARCHITECTURAL SMOKER

Tonight the first Architectural smoker of the year will take place. This should be particularly interesting to the Sophomore architects as it is their first chance to meet the older men.

The speaker of the evening is Mr. Peabody of the Boston architectural firm of Peabody & Stearns. His talk will be about a recent trip in Greece, and promises to be both entertaining and instructive. The lecture will be illustrated with slides taken by Mr. Peabody on this trip.

CALENDAR.

Wednesday, November 20, 1912.
7.30—E. Eng. Society—Union.
Thursday, November 21, 1912.
7.15—Chemical Society—Union.

HOCKEY TEAM CANDIDATES 1 O'CLOCK IN ROGERS

THE TECH

Entered as second-class matter, Sept. 15, 1911, at the postoffice at Boston, Mass., under the act of Congress of March 3, 1879.

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Published daily, except Sunday, during the college year by students of the Massachusetts Institute of Technology.

WEDNESDAY, NOVEMBER 20, 1912

MAPPING THE WORLD.

Series of Maps Planned to Cover Entire World.

The first sheet of the United States portion of the international map of the world has just been issued by the United States Geological Survey and includes Rhode Island and portions of New York, Connecticut, Massachusetts, New Hampshire, Maine and Nova Scotia. This world map, recently undertaken by agreement among the leading nations, is being prepared on the scale of 1 to 1,000,000—that is, 1 linear inch on the map represents 1,000,000 inches, or nearly 16 miles, on the earth's surface. The map is to consist of about 1,500 sheets covering all the land areas of the world, each sheet representing 4 degrees of latitude and 6 degrees of longitude. The sheets will be numbered according to a scheme covering the whole world, and the symbols indicating the natural features and the works of man will be uniform on all the sheets. It has been the dream of geographers for many years to have an international map scientifically constructed on a uniform scale, and the work is now well under way. The maps at present available, printed on all sorts of scales, in geographies and atlases, where the most important areas are allotted the greatest space, inevitably lead to misconceptions as to the relative size of the different countries. Thus it may not be generally realized that the area of Scotland and Ireland together is less than that of any one of our five largest States; or that Texas is much larger than France; or that the new States of New Mexico and Arizona are each larger than the combined areas of the Balkan countries of Bulgaria, Roumania, Servia, and Montenegro, now engaged in war with Turkey; or that Argentina is more than three times the size of the thirteen original States. With an international map on a uniform scale the study of comparative geography will become far more fascinating and instructive.

The sheet just issued, which is numbered "North K 19" and known as the Boston sheet, is printed in six colors and shows all the principal cities and towns, railroads, main wagon roads and other works of man, and the rivers, lakes and other water features. The different depths of the ocean are denoted by contour lines, or "depth curves," and various shades of blue and the relief, or altitudes of all parts of the land surface, by contour lines and color gradations, from pale green to brown, a different tint being used for each 100 meters of altitude. The sheets for the completed millionth map of the world, if combined, cover an area about 150 feet by 75 feet or a globe 40 feet in diameter; the United States portion would be about 16 feet in width, a very large wall map. The Boston sheet is 24 by 25 inches and this will (Continued on Page 3.)

COSMOPOLITAN CLUB DANCE AT TUILERIES

Novel Decorations and Many Surprises Promised at Annual Dance.

On the thirtieth of November the Cosmopolitan Club will hold their annual dance at the Hotel Tuileries. This semester's function promises to eclipse all their former dances. Unique decorations will be a feature of the entertainment, which are planned to be symbolic of the club. The ballroom of the Hotel Tuileries is admirably suited to such decorations and many surprises are in store for the guests.

The Anglo-Saxon dance, given last year under the auspices of the Cosmopolitan Club, proved a great success and many novel features were introduced.

James Bryce, the British Vice-Council, and many other famous foreigners, have been invited.

The dance orders, which will be out next week, may be obtained from any member of the committee.

Tickets will only be sold to the American and British students.

All foreigners attending Technology and members of the Harvard Cosmopolitan Club are invited.

Tickets may be obtained from any of the following at \$2.50 each: A. G. Ranney, H. D. Peck, L. H. Lehmaier, S. H. Taylor, E. Hurst or H. M. Lawrence.

WINTER CONCERT.

Advance Dance Orders Ready at the Cage—No Flowers.

The annual winter concert and dance of the Musical Club's is to be given at Copley Hall on Friday, December 6th. The concert will begin at 8 o'clock sharp, lasting until about 9:45. Dancing will last approximately from 10 till 2 o'clock, with music by Poole's Orchestra. Refreshments will be served. The management has decided to allow no flowers whatever upon the floor.

The Musical Clubs are doing particularly well this year, as is also the Orchestra, under the management of the Tech Show Board. Tickets to the concert may be secured from members of the clubs at a dollar and a half apiece. The advance dance orders will be out in a few days, and the final orders some time before the sixth.

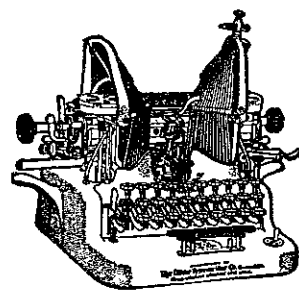
COLUMBIA DEFICIT.

The budget of the Columbia University Athletic Association shows that twelve out of fifteen athletic teams were run at a deficit last year. The only teams that finished the season with a surplus were the Freshman and Varsity basketball and Varsity rifle teams, which came out with \$708 profit. The greatest loss was incurred by the crew, which ran up a deficit of over \$5,000, the track team slumped to the extent of \$1,520. The total deficits of the teams amounted to \$8,903.46.

FRESHMAN BALLOTS.

The meeting of the 1916 Ballot Committee, which was to have been held yesterday, was postponed, as two of its members were unable to attend. The meeting will be held in the Library in Rogers at 1 P. M. today.

In order to put a stop to the snobishness existing among underclassmen, the faculty of Yale have made provisions that all Freshmen must hereafter room in the new dormitories on the campus. Gork street, for the first time in years, is deserted. On this street many private dormitories existed, which had come to be only the homes of the effete rich, places which were handed down from year to year. These are all a thing of the past now.



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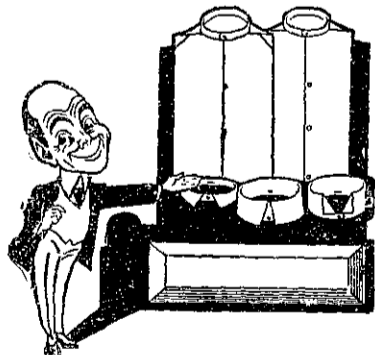
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JUNIOR CLASS HAS PHOTOGRAPH TAKEN

Three Hundred Members Present For Picture For Technique.

Yesterday noon about three hundred members of the Junior class assembled on Rogers' steps for their annual picture for Technique. This year a different photographer was persuaded to attempt the great task, and he lent himself to it with great vim.

Ten Freshmen were gently but firmly ejected from the group that thronged the steps, and then ensued about fifteen minutes of nervous hair-smoothing and coat and necktie adjusting. The dauntless and daring photographer attempted five experiments and asked for several more at the finish, because after each endeavor he was urged on to further trials by loud cheering. Between two of the pictures the class and one of its most active members gave an excellent exhibition of cheering, giving a regular M. I. T. cheer and We are Happy, overflowing with class spirit and enthusiasm. Due to the great aggregation of Beau Brummels there assembled several young ladies who were passing along Boylston street at the time and were almost enticed into the picture.

MAPPING THE WORLD.

(Continued from Page 2.)

be the size of most of the United States sheets. The maps of areas at the far north covering 6 degrees of longitude will of course be much narrower than those of areas covering 6 degrees at the equator.

At the present rate of progress the United States portion of the international map should be finished within eight or ten years. It will be by far the best map of the country in existence.

There is, in fact, no very accurate map of the United States as a whole, although the Geographical Survey publishes a base map about 7 feet in width and the General Land Office has issued a similar map. Most of the commercial maps, though pretty to look upon, are full of gross errors. For a superficial study of the country the ordinary maps may serve the purpose, but when one finds a town 5 or 6 miles out of position with reference to a railroad or some other town he realizes that the present-day geography or atlas map is anything but accurate.

The Geological Survey has topographically mapped in great detail more than one-third of the United States, but these maps are mostly on a scale of 1 mile or 2 miles to the inch and are too large for ordinary comparative purposes. The Boston sheet of the millionth-scale map is a very accurate map and is a beautiful product of the engraver's and lithographer's art, printed on fine enameled paper. This sheet is sold by the Geological Survey at the bare cost of production, namely, 40 cents, which will be the price of the other sheets as issued. Thus the entire map of the United States will cost \$20.80. As a preliminary to the issuance of the completed color sections of the United States portion of the world's map the Survey is printing, in black and white, State maps on the scale of 1 to 500,000, being thus four times as large as the world's map of the same area. Already such maps have been finished and printed for Vermont, Illinois, Indiana, Iowa, Minnesota, Mississippi and Georgia and a dozen others are in process of publication. These are sold by the Survey at varying prices according to the size of the maps. For instance, the Vermont map is sold at 10 cents and the Minnesota map at 40 cents. The colored Boston sheet (North K 19) of the world's map or any of the State maps mentioned can be procured from the Director of the United States Geological Survey, Washington, D. C.

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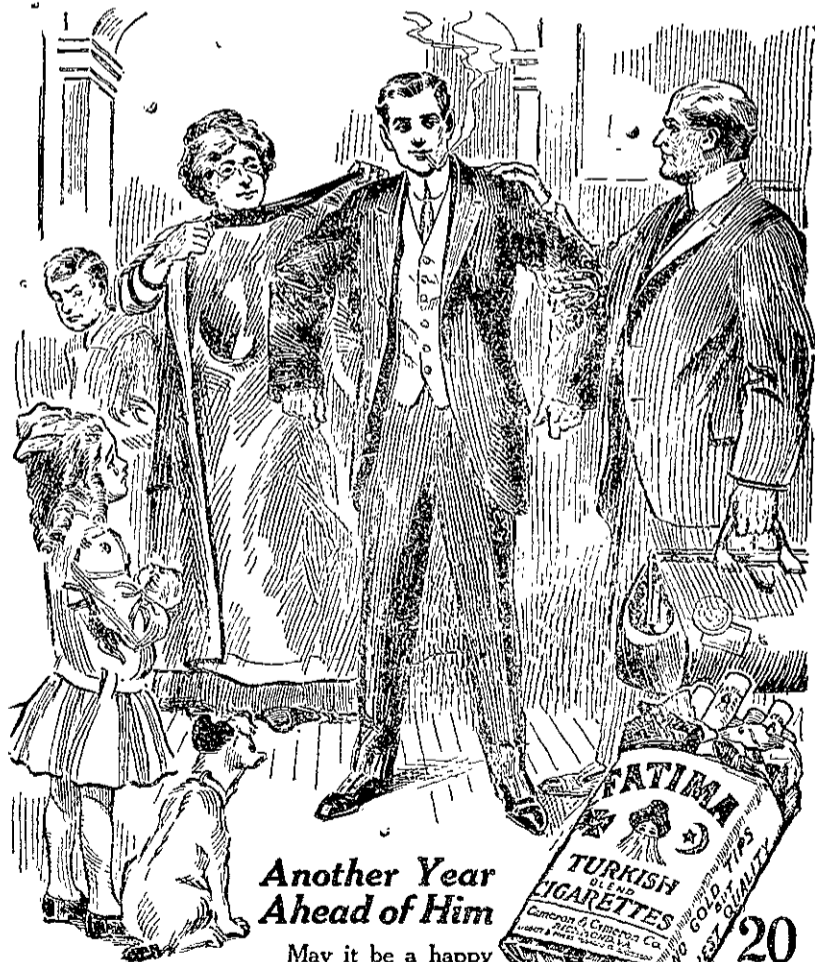
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TO LET—In a strictly private family a front room with good board, 5 miles out from city, 20 minutes ride from Sullivan Square; 5 cent fare; near both steam and electric. 145 Oliver street, Linden, Malden, Mass.

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PHYSICAL LABORATORY (773) SECOND YEAR.
Courses II, III (Option II), VI, VII, VIII, XIII and XIV.

Mass. Institute of Technology,
November 13, 1912.
The Physical Laboratory exercises, scheduled for the above courses during the week of November 18, will be omitted. In place of the Laboratory exercise the whole class will meet on Monday, November 18, and Thursday, November 21, at 4.10 P. M., in Room 23, Walker, for preliminary instructions regarding the work. The laboratory exercises will begin as per tabular view, on Monday, November 25. (37-6t) H. M. GOODWIN.

FACULTY NOTICE.
Candidates for Graduation.
October 28, 1912.
Notes in regard to status with reference to graduation have been sent to fourth-year students. Any student who has not received a note should consult me if he expects to be a candidate for graduation in June, 1913.
A. L. MERRILL,
Secretary of the Faculty.

Dancing Parties every Wednesday and Saturday evenings. Lundin Gymnasium, 44 St. Botolph street, Boston. Refined patronage. (Tues-Fri)

FACULTY NOTICE.

Attention is called to the following extract from the Rules of the Faculty: "All marks of D incurred in the second term must be removed not later than the end of the following November. In case a mark of D is not removed at this time, the student shall be required to discontinue any dependent subjects which he is taking, and can obtain a clear record only by repeating the subject in which the D was given."
A. L. MERRILL,
Secretary of the Faculty.

Tonight!
at the UNION
Music Good Eats
Follow the Crowd
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Assets other Boston Trust Co.'s (Sept 4, 1912)	170,000,000
Combined Assets all Boston Trust Co's.	\$267,000,000

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